安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	HR221210-04H
Part No.:	X-049613-01	Material:	AISI 410 75K			Coating:	WC
Description:	4-1/16"15000psi Body Bushing					Quantity:	2
Test Method:	Type II Method C	Acceptance Criteria:		API 6A 21st/PSL3	Penetrate Type:		DPT-5
Remover Type:	DPT-5	Developer Type:		DPT-5	Light Intensity:		≥1076Lx
Stage:	Machined	Penetrate Time:		10min	Develop Time:		10min

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050154	221110102Q2	Acceptable				
2	AP050157	221110102Q2	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1392		Date:	2023.01
Drawing #:	PFFY105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	STP-0103-001
Part No.:	X-111875-01	Material:	PH17-4 105K			Coating:	/
Description:	4-1/16"15000psi Balance Stem					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050068	HY221113-5	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.01

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1220-001
Part No.:	X-111140-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Tail Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050016	RC-12-09	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	1392		Date:	2023.01
Drawing #:	PFFY105/103 AL-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP050F017
Part No.:	X-273130-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A 21st	1	OK
TAIL BONNET	15000psi	API 6A 21st	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	AP050029	RC-12-12	OK	OK					

Drift Test：

Diameter ϕ 102.46mm drift test gauge can freely pass through the through hole of the valve.

Inspection Coverage:

Per Specification & Requirements: API 6A 21st

		Approved By:	Examined By:
Judgments:	[V] Conforms	Xin Zheng	Yifei Ma
	[ ] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

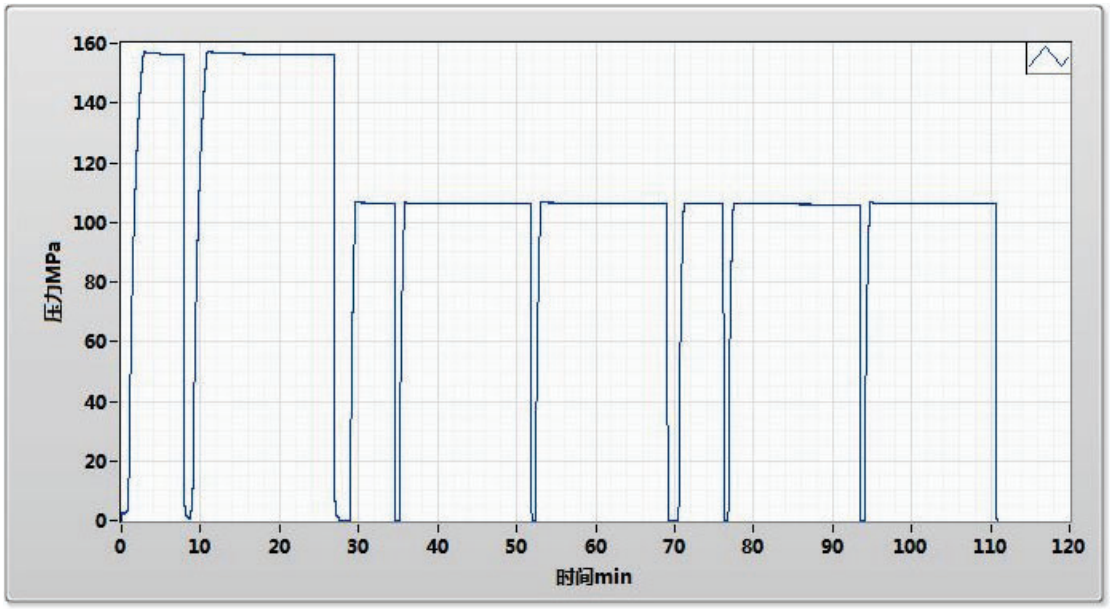
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F017	4-1/16" 15000Psi	API 6A　21st	Shell & TAIL BONNET	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.77	156.07	4.0	0.69
2	156.95	156.01	15.0	0.95
3	106.57	106.51	4.0	0.06
4	106.51	106.34	15.0	0.17
5	106.59	106.39	15.0	0.20
6	106.39	106.22	4.0	0.17
7	106.24	105.95	15.0	0.29
8	106.53	106.30	15.0	0.22



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei　Ma	Xin Zheng	Zhicheng Feng	2023.01.07

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F018

Shipment Date: January,2023

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
2	Metallurgical Test Certificate	Page - 3
2.1	Mechanical Testing	Page - 3
2.2	Chemical Testing	Page -3
2.3	Heat Treatment	Page - 3
3	Hardness Test	Page - 4-12
4	Ultrasonic Testing	Page - 13-17
5	Magnetic Particle Inspection Report	Page - 18-26
6	Hydrostatic Test	Page - 27-28

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1392, DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE-0.5 CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: 1392
SERIAL NO.: AP050F018
PART NO.: PFFY105/103AL-00
QANTITY: 1
INSPECTION STANDARD: API Spec 6A 21st EE-0.5, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME:

(STAMP)

INSPECTOR:Zhicheng Feng

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: January,2023

Customer: _____

P.O. Number: **1392**

安澜科技（江苏）股份有限公司

No.: AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Date:January,2023

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	1392	HYDRAULIC GATE VALVE	PFFY105/103AL-00	AP050F018	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
PFFY105/103AL-00	BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	1	AP050023	Forging	860	3.5H	WATER	28	38	680	5.0H	AIR	/	/	/	
	BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050050	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/	/	
	STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050095	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	5.2H	AIR	
	BALANCE STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050061	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	5.2H	AIR	
	GATE	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	1	AP050144	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H	AIR	
	BODY BUSHING	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	2	AP050142 AP050178	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H	AIR	
	TAIL BONNET	22106193C	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050017	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/	/	

Melt No.	H.T. No.	Chemical Analysis (wt, %)													Physical Properties								
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
1027400A	RC-12-12	0.30	0.57	0.29	0.011	0.0037	1.02	0.03	0.213	0.001	/	/	0.01	/	/	4"x4"x8"	QTC	672	533	37.0	51.0	56/60/64	220HBW	JBW-300B/ WDW-300
22E105071	RC-12-09	0.30	0.56	0.30	0.010	0.002	0.99	0.03	0.21	0.003	/	/	0.02	/	/	4"x4"x8"	QTC	675	532	48.0	50.0	65/62/59	218HBW	JBW-300B/ WDW-300
YX2208-2234	HY221113-5	0.022	0.50	0.44	0.031	0.003	15.72	4.15	/	/	/	/	3.60	0.243	/	Φ80x200	QTC	1067	940	19.7	58.5	44/37/49	29HRC	JBW-300B/ WDW-300
YX2208-2234	HY221113-5	0.022	0.50	0.44	0.031	0.003	15.72	4.15	/	/	/	/	3.60	0.243	/	Φ80x200	QTC	1067	940	19.7	58.5	44/37/49	29HRC	JBW-300B/ WDW-300
2215800290	221110102Q2	0.14	0.30	0.44	0.015	0.016	12.12	0.11	/	/	/	/	0.06	/	/	100x100x200	QTC	722	560	27.0	66.0	/	222HBW	JBW-300B/ WDW-300
2215800290	221110102Q2	0.14	0.30	0.44	0.015	0.016	12.12	0.11	/	/	/	/	0.06	/	/	100x100x200	QTC	722	560	27.0	66.0	/	222HBW	JBW-300B/ WDW-300
22106193C	RC-12-09	0.31	0.57	0.27	0.010	0.005	1.06	0.23	0.24	0.01	/	/	0.03	/	/	4"x4"x8"	QTC	672	530	45.0	54.0	61/60/57	219HBW	JBW-300B/ WDW-300

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase order and have been found to be satisfactory.

The information in this report is true and correct to our knowledge.

Xin Zheng

NAME of QA Manager, for and on the authority of COMPANY NAME

安澜科技（江苏）股份有限公司

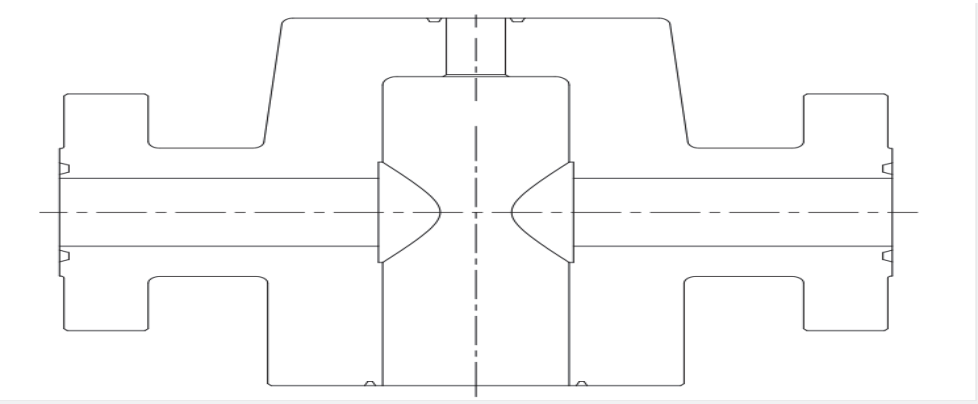
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1225-003
Part No.:	X-273130-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi　Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050023	RC-12-12	212HBW/212HBW 211HBW/211HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

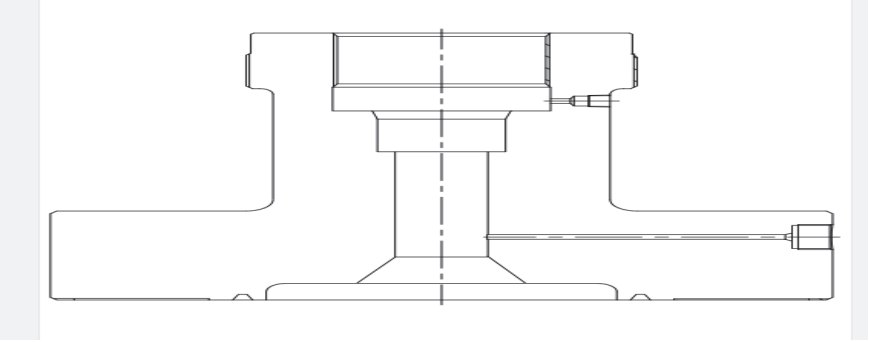
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1225-003
Part No.:	X-111876-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi　Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050050	RC-12-09	228HBW/226HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HP-1223-003
Part No.:	X-182791-01	Material:	PH17-4 105K			Coating:	/
Description:	4-1/16"15000psi　Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050095	HY221113-5	31HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

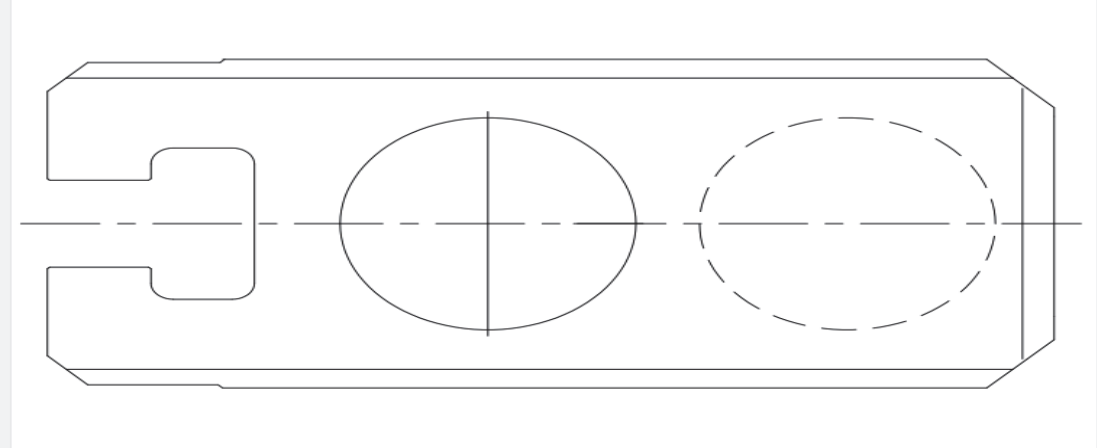
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HR221210-01
Part No.:	X-182778-01	Material:	AISI 410 75K			Coating:	/
Description:	4-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050144	221110102Q2	224HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

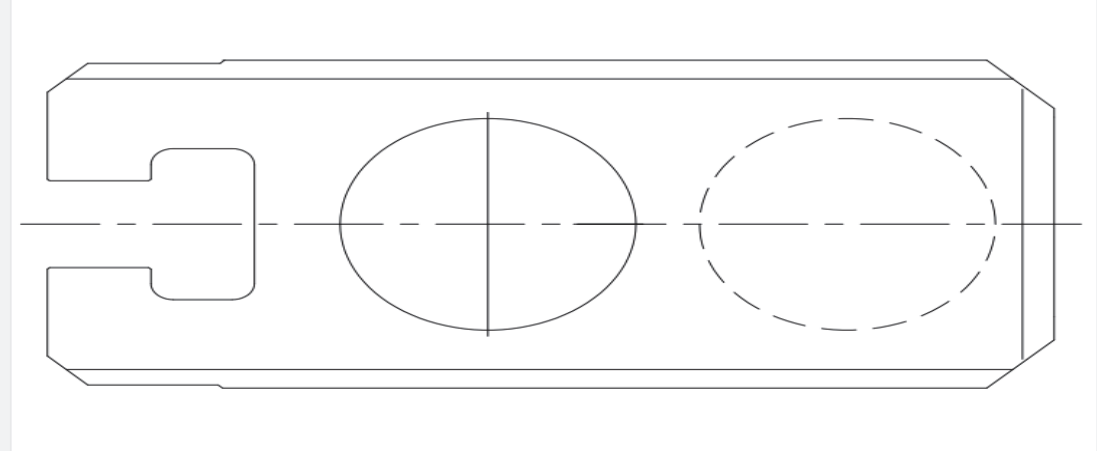
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	HR221210-03
Part No.:	X-182778-01	Material:	AISI 410 75K			Coating:	WC
Description:	4-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050144	221110102Q2	1293HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

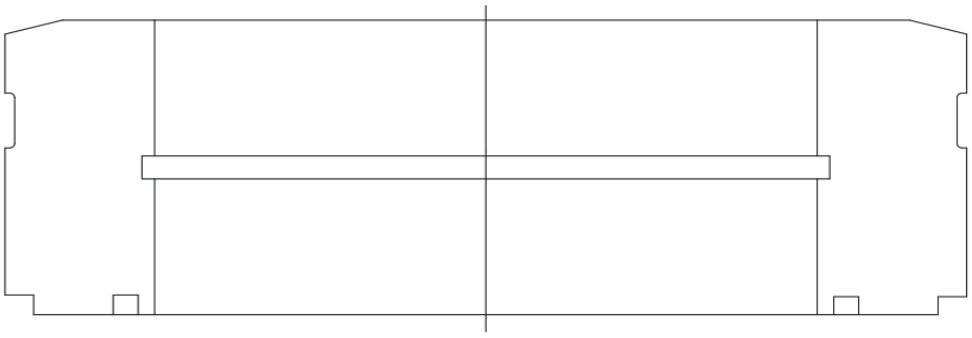
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HR221210-02
Part No.:	X-049613-01	Material:	AISI 410 75K			Coating:	/
Description:	4-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050142	221110102Q2	96HRB				
2	AP050178	221110102Q2	97HRB				

Sketch:



Method Used:			
Acceptable Hardness:	94HRB-99HRB	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

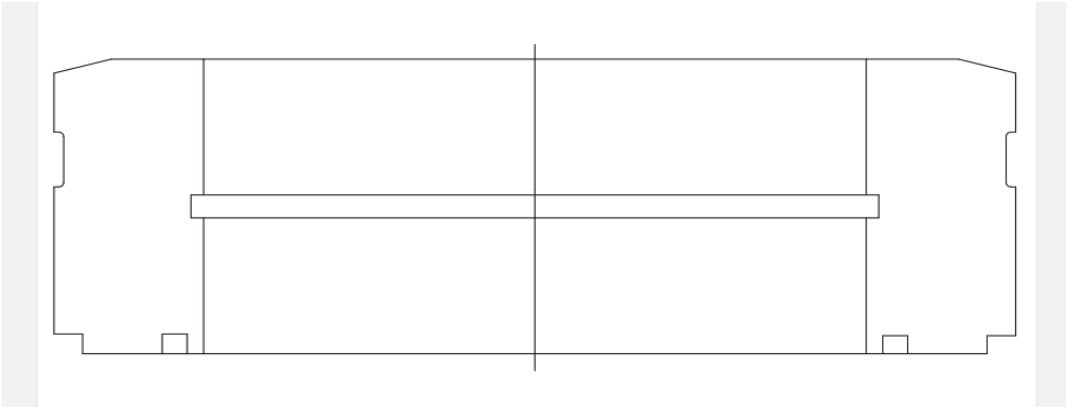
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	HR221210-04
Part No.:	X-049613-01	Material:	AISI 410 75K			Coating:	WC
Description:	4-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050142	221110102Q2	1318HV				
2	AP050178	221110102Q2	1275HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1392		Date:	2023.01
Drawing #:	PFFY105/103 AL-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HS-0103-001
Part No.:	X-111875-01	Material:	PH17-4 105K			Coating:	/
Description:	4-1/16"15000psi　Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050061	HY221113-5	29HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

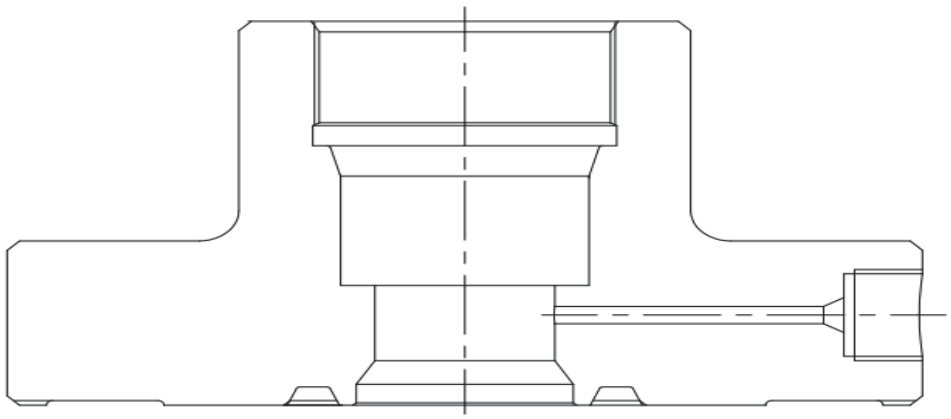
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:	
Drawing #:		Specification:		API Monogram:		Report #:	
Part No.:		Material:				Coating:	
Description:						Quantity:	

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050017	RC-12-09	222HBW/220HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103 AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-002
Part No.:	X-273130-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050023	RC-12-12	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block Φ6.4 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB Φ6.4DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-001
Part No.:	X-111876-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050050	RC-12-09	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:	[redacted]		Customer PO#:	[redacted]		Date:	[redacted]
Drawing #:	[redacted]	Specification:	[redacted]	API Monogram:	[redacted]	Report #:	[redacted]
Part No.:	[redacted]	Material:	[redacted]			Coating:	[redacted]
Description:	4-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050095	HY221113-5	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1214-001
Part No.:	X-111875-01	Material:	PH17-4 105K			Coating:	/
Description:	4-1/16"15000psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050061	HY221113-5	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-001
Part No.:	X-111140-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050017	RC-12-09	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1225-002
Part No.:	X-273130-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Body					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3100A 2800A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3310Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050023	RC-12-12	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1225-001
Part No.:	X-111876-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:	API 6A 21st/PSL3	Circular AMPS:		2500A 3500A	
Test Method:	Fluorescence Wet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		3490Uw/cm^2	
Stage:	Machined	Concentration:	0.2ml/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050050	RC-12-09	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTP-1223-001
Part No.:	X-182791-01	Material:	PH17-4-105K			Coating:	/
Description:	4-1/16"15000psi	Stem				Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050095	HY221113-5	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	HR221210-05
Part No.:	X-182778-01	Material:	AISI 410 75K			Coating:	/
Description:	4-1/16"15000psi Gate					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		1600A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050144	221110102Q2	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	HR221210-05H
Part No.:	X-182778-01	Material:	AISI 410 75K			Coating:	WC
Description:	4-1/16"15000psi Gate					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050144	221110102Q2	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	HR221210-04
Part No.:	X-049613-01	Material:	AISI 410 75K			Coating:	/
Description:	4-1/16"15000psi Body Bushing					Quantity:	2
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3200A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050142	221110102Q2	Acceptable				
2	AP050178	221110102Q2	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	HR221210-04H
Part No.:	X-049613-01	Material:	AISI 410 75K			Coating:	WC
Description:	4-1/16"15000psi Body Bushing					Quantity:	2
Test Method:	Type II Method C	Acceptance Criteria:		API 6A 21st/PSL3	Penetrate Type:		DPT-5
Remover Type:	DPT-5	Developer Type:		DPT-5	Light Intensity:		≥1076Lx
Stage:	Machined	Penetrate Time:		10min	Develop Time:		10min

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050142	221110102Q2	Acceptable				
2	AP050178	221110102Q2	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1392		Date:	2023.01
Drawing #:	PFFY105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	STP-0103-001
Part No.:	X-111875-01	Material:	PH17-4 105K			Coating:	/
Description:	4-1/16"15000psi Balance Stem					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050061	HY221113-5	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.01

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1220-001
Part No.:	X-111140-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Tail Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050017	RC-12-09	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	1392		Date:	2023.01
Drawing #:	PFFY105/103 AL-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP050F018
Part No.:	X-273130-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A 21st	1	OK
TAIL BONNET	15000psi	API 6A 21st	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	AP050023	RC-12-12	OK	OK					

Drift Test：

Diameter ϕ 102.46mm drift test gauge can freely pass through the through hole of the valve.

Inspection Coverage:

Per Specification & Requirements: API 6A 21st

		Approved By:	Examined By:
Judgments:	[V] Conforms	Xin Zheng	Yifei Ma
	[ ] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

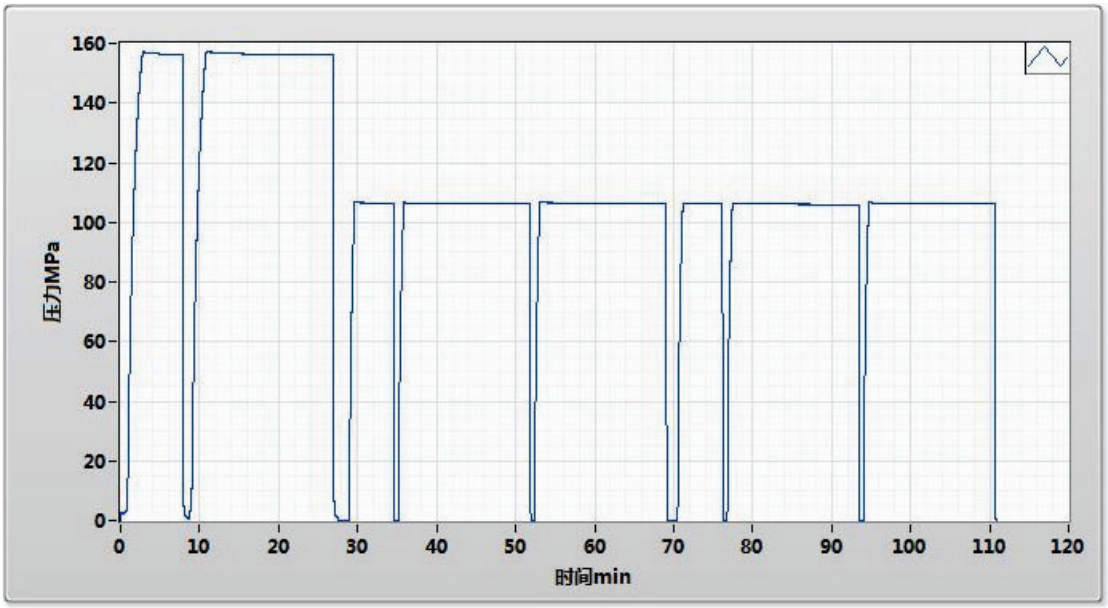
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F018	4-1/16" 15000Psi	API 6A　21st	Shell & TAIL BONNET	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.77	156.07	4.0	0.69
2	156.95	156.01	15.0	0.95
3	106.57	106.51	4.0	0.06
4	106.51	106.34	15.0	0.17
5	106.59	106.39	15.0	0.20
6	106.39	106.22	4.0	0.17
7	106.24	105.95	15.0	0.29
8	106.53	106.30	15.0	0.22



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei　Ma	Xin Zheng	Zhicheng Feng	2023.01.07

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F019

Shipment Date: January,2023

Activity No.	Characteristics	Reference Page
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2	Metallurgical Test Certificate	Page - 3
2.1	Mechanical Testing	Page - 3
2.2	Chemical Testing	Page -3
2.3	Heat Treatment	Page - 3
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安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1392, DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE-0.5 CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: 1392
SERIAL NO.: AP050F019
PART NO.: PFFY105/103AL-00
QANTITY: 1
INSPECTION STANDARD: API Spec 6A 21st EE-0.5, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME:

(STAMP)

INSPECTOR:Zhicheng Feng

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: January,2023

Customer: _____

P.O. Number: **1392**

安澜科技（江苏）股份有限公司

No.: AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Date:January,2023

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	1392	HYDRAULIC GATE VALVE	PFFY105/103AL-00	AP050F019	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
PFFY105/103AL-00	BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	1	AP050024	Forging	860	3.5H	WATER	28	38	680	5.0H	AIR	/	/	/	
	BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050057	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/	/	
	STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050086	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	5.2H	AIR	
	BALANCE STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050069	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	5.2H	AIR	
	GATE	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	1	AP050159	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H	AIR	
	BODY BUSHING	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	2	AP050159 AP050162	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H	AIR	
	TAIL BONNET	22106193C	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050009	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/	/	

Melt No.	H.T. No.	Chemical Analysis (wt, %)													Physical Properties								
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
1027400A	RC-12-12	0.30	0.57	0.29	0.011	0.0037	1.02	0.03	0.213	0.001	/	/	0.01	/	/	4"x4"x8"	QTC	672	533	37.0	51.0	56/60/64	220HBW	JBW-300B/ WDW-300
22E105071	RC-12-09	0.30	0.56	0.30	0.010	0.002	0.99	0.03	0.21	0.003	/	/	0.02	/	/	4"x4"x8"	QTC	675	532	48.0	50.0	65/62/59	218HBW	JBW-300B/ WDW-300
YX2208-2234	HY221113-5	0.022	0.50	0.44	0.031	0.003	15.72	4.15	/	/	/	/	3.60	0.243	/	Φ80x200	QTC	1067	940	19.7	58.5	44/37/49	29HRC	JBW-300B/ WDW-300
YX2208-2234	HY221113-5	0.022	0.50	0.44	0.031	0.003	15.72	4.15	/	/	/	/	3.60	0.243	/	Φ80x200	QTC	1067	940	19.7	58.5	44/37/49	29HRC	JBW-300B/ WDW-300
2215800290	221110102Q2	0.14	0.30	0.44	0.015	0.016	12.12	0.11	/	/	/	/	0.06	/	/	100x100x200	QTC	722	560	27.0	66.0	/	222HBW	JBW-300B/ WDW-300
2215800290	221110102Q2	0.14	0.30	0.44	0.015	0.016	12.12	0.11	/	/	/	/	0.06	/	/	100x100x200	QTC	722	560	27.0	66.0	/	222HBW	JBW-300B/ WDW-300
22106193C	RC-12-09	0.31	0.57	0.27	0.010	0.005	1.06	0.23	0.24	0.01	/	/	0.03	/	/	4"x4"x8"	QTC	672	530	45.0	54.0	61/60/57	219HBW	JBW-300B/ WDW-300

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase order and have been found to be satisfactory.

The information in this report is true and correct to our knowledge.

Xin Zheng

NAME of QA Manager, for and on the authority of COMPANY NAME

安澜科技（江苏）股份有限公司

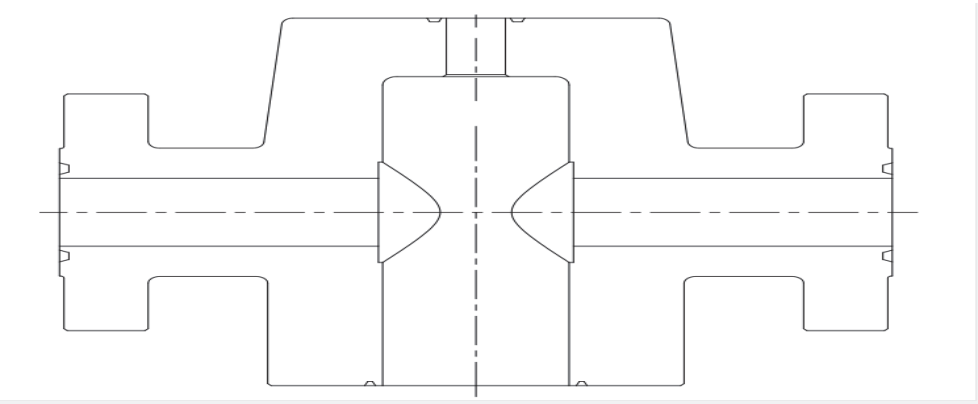
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1222-00 1
Part No.:	X-273130-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi　Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050024	RC-12-12	223HBW/220HBW 222HBW/222HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

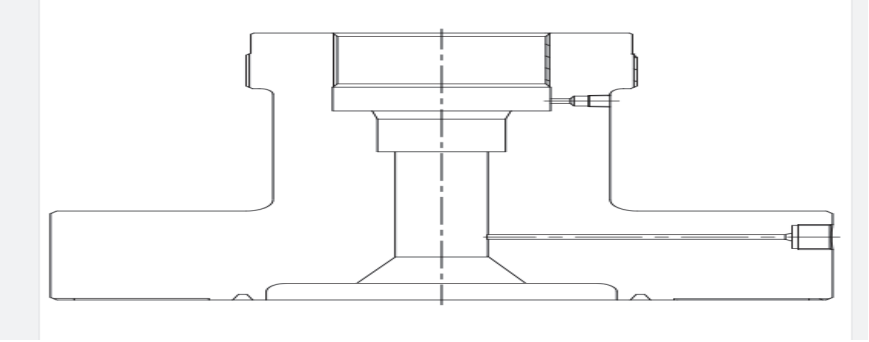
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1225-003
Part No.:	X-111876-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi　Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050057	RC-12-09	226HBW/224HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HP-1223-003
Part No.:	X-182791-01	Material:	PH17-4 105K			Coating:	/
Description:	4-1/16"15000psi　Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050086	HY221113-5	29HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

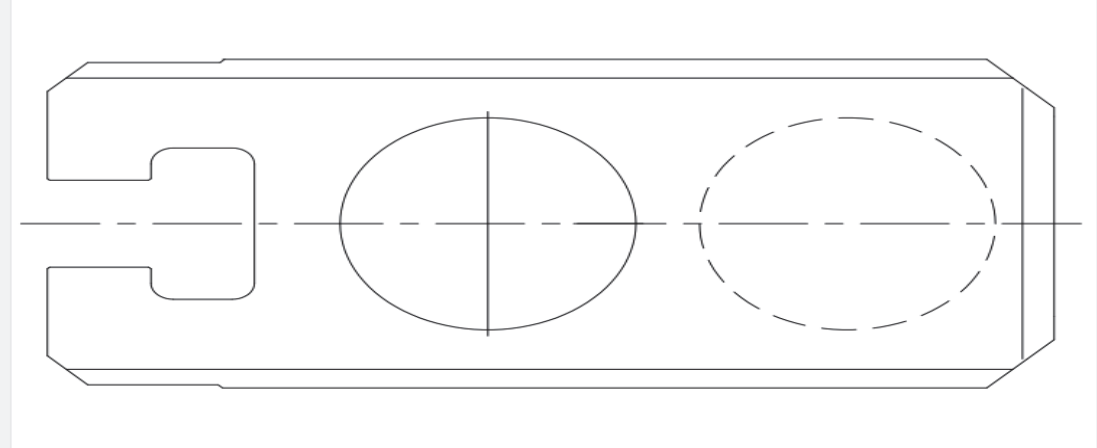
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HR221210-01
Part No.:	X-182778-01	Material:	AISI 410 75K			Coating:	/
Description:	4-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050159	221110102Q2	221HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

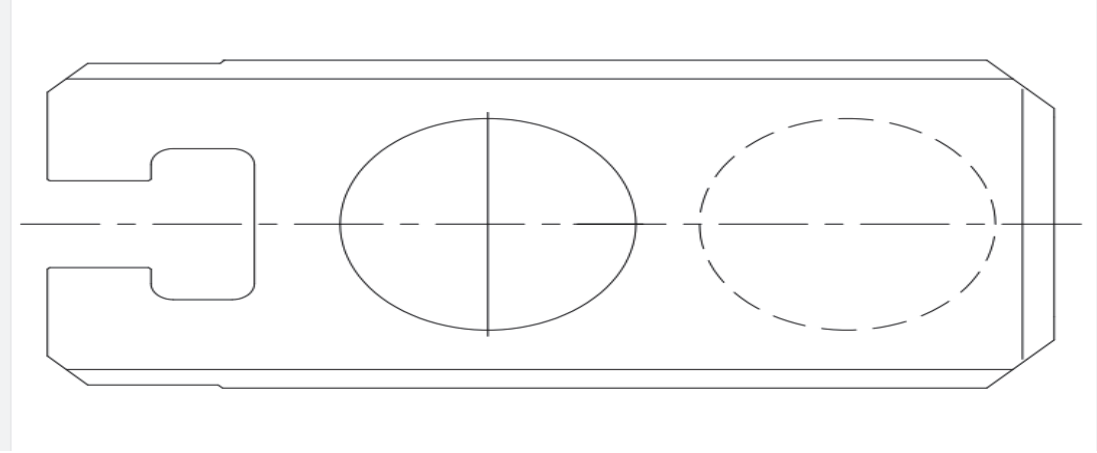
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	HR221210-03
Part No.:	X-182778-01	Material:	AISI 410 75K			Coating:	WC
Description:	4-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050159	221110102Q2	1286HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

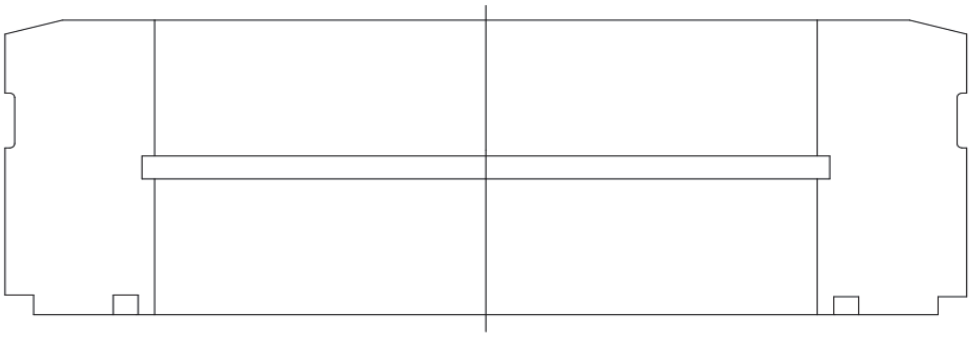
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HR221210-02
Part No.:	X-049613-01	Material:	AISI 410 75K			Coating:	/
Description:	4-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050159	221110102Q2	97HRB				
2	AP050162	221110102Q2	98HRB				

Sketch:



Method Used:			
Acceptable Hardness:	94HRB-99HRB	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

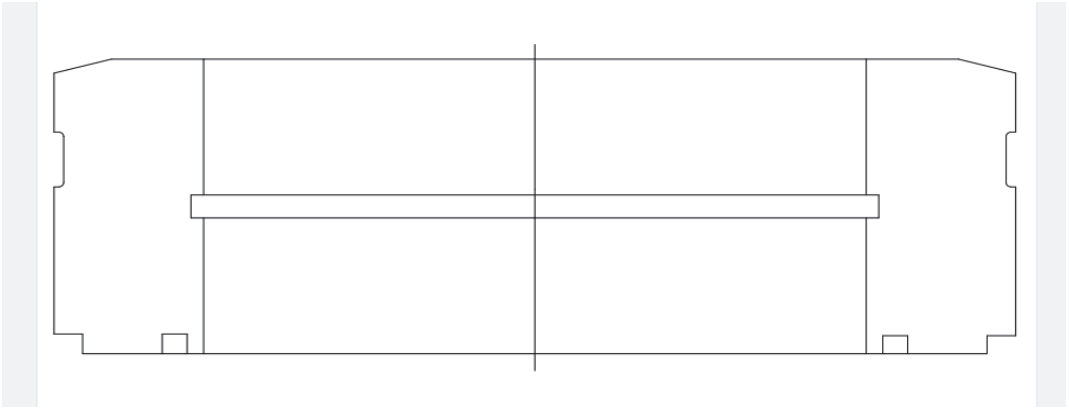
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	HR221210-04
Part No.:	X-049613-01	Material:	AISI 410 75K			Coating:	WC
Description:	4-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050159	221110102Q2	1318HV				
2	AP050162	221110102Q2	1281HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1392		Date:	2023.01
Drawing #:	PFFY105/103 AL-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HS-0103-001
Part No.:	X-111875-01	Material:	PH17-4 105K			Coating:	/
Description:	4-1/16"15000psi　Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050069	HY221113-5	30HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

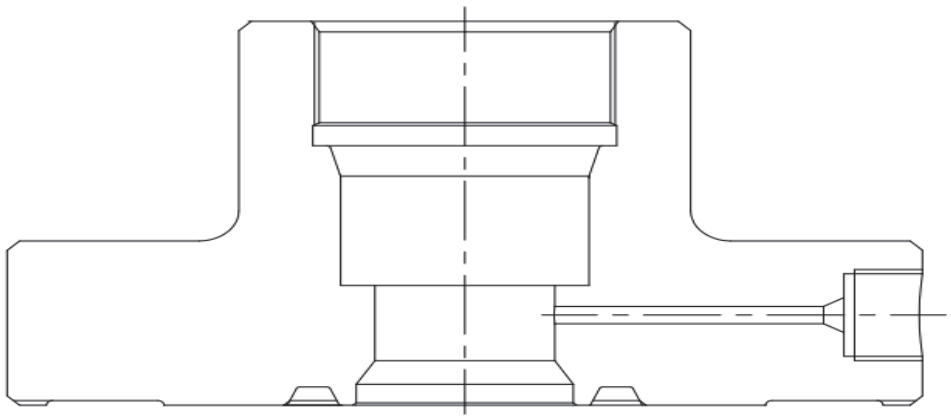
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:	
Drawing #:		Specification:		API Monogram:		Report #:	
Part No.:		Material:				Coating:	
Description:						Quantity:	

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050009	RC-12-09	222HBW/220HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103 AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-002
Part No.:	X-273130-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050024	RC-12-12	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block Φ6.4 FBH Block	Level as per UT:	Ⅱ
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB Φ6.4DAC+6dB	Level as per UT:	Ⅱ

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-001
Part No.:	X-111876-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050057	RC-12-09	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:		Specification:		API Monogram:		Report #:	
Part No.:		Material:				Coating:	
Description:	4-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050086	HY221113-5	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1214-001
Part No.:	X-111875-01	Material:	PH17-4 105K			Coating:	/
Description:	4-1/16"15000psi　Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050069	HY221113-5	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST.　HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	Ⅱ
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	Ⅱ

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-001
Part No.:	X-111140-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050009	RC-12-09	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1222-001
Part No.:	X-273130-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi　Body					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3100A 2800A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3310Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050024	RC-12-12	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1225-001
Part No.:	X-111876-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:	API 6A 21st/PSL3	Circular AMPS:		2500A 3500A	
Test Method:	Fluorescence Wet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		3490Uw/cm^2	
Stage:	Machined	Concentration:	0.2ml/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050057	RC-12-09	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTP-1223-001
Part No.:	X-182791-01	Material:	PH17-4-105K			Coating:	/
Description:	4-1/16"15000psi	Stem				Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050086	HY221113-5	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	HR221210-05
Part No.:	X-182778-01	Material:	AISI 410 75K			Coating:	/
Description:	4-1/16"15000psi Gate					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:	API 6A 21st/PSL3	Circular AMPS:		1600A	
Test Method:	Fluorescence Wet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.2ml/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050159	221110102Q2	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	HR221210-05H
Part No.:	X-182778-01	Material:	AISI 410 75K			Coating:	WC
Description:	4-1/16"15000psi Gate					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050159	221110102Q2	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	HR221210-04
Part No.:	X-049613-01	Material:	AISI 410 75K			Coating:	/
Description:	4-1/16"15000psi Body Bushing					Quantity:	2
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3200A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050159	221110102Q2	Acceptable				
2	AP050162	221110102Q2	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	HR221210-04H
Part No.:	X-049613-01	Material:	AISI 410 75K			Coating:	WC
Description:	4-1/16"15000psi Body Bushing					Quantity:	2
Test Method:	Type II Method C	Acceptance Criteria:		API 6A 21st/PSL3	Penetrate Type:		DPT-5
Remover Type:	DPT-5	Developer Type:		DPT-5	Light Intensity:		≥1076Lx
Stage:	Machined	Penetrate Time:		10min	Develop Time:		10min

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050159	221110102Q2	Acceptable				
2	AP050162	221110102Q2	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1392		Date:	2023.01
Drawing #:	PFFY105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	STP-0103-001
Part No.:	X-111875-01	Material:	PH17-4 105K			Coating:	/
Description:	4-1/16"15000psi Balance Stem					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050069	HY221113-5	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.01

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1220-001
Part No.:	X-111140-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Tail Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:	API 6A 21st/PSL3	Circular AMPS:		2500A 3500A	
Test Method:	Fluorescence Wet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		3490Uw/cm^2	
Stage:	Machined	Concentration:	0.2ml/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050009	RC-12-09	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	1392		Date:	2023.01
Drawing #:	PFFY105/103 AL-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP050F019
Part No.:	X-273130-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A 21st	1	OK
TAIL BONNET	15000psi	API 6A 21st	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	AP050024	RC-12-12	OK	OK					

Drift Test：

Diameter Φ 102.46mm drift test gauge can freely pass through the through hole of the valve.

Inspection Coverage:

Per Specification & Requirements: API 6A 21st

		Approved By:	Examined By:
Judgments:	[V] Conforms	Xin Zheng	Yifei Ma
	[ ] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

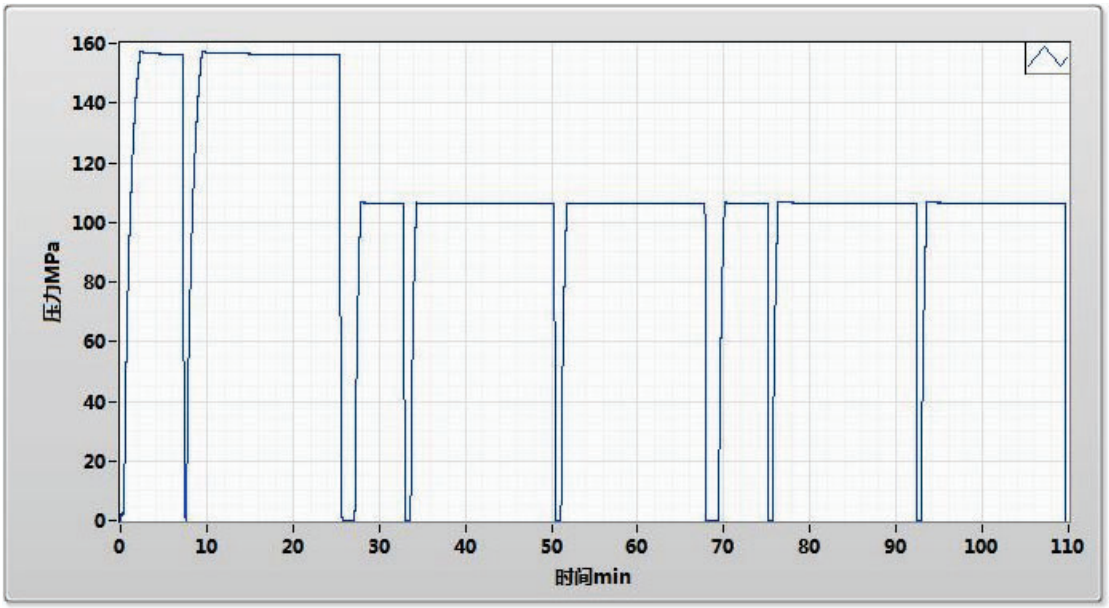
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F019	4-1/16" 15000Psi	API 6A 21st	Shell & TAIL BONNET	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.82	156.14	4.0	0.68
2	156.91	156.16	15.0	0.75
3	106.55	106.48	4.0	0.07
4	106.44	106.22	15.0	0.22
5	106.41	106.19	15.0	0.22
6	106.45	106.27	4.0	0.18
7	106.61	106.32	15.0	0.28
8	106.60	106.35	15.0	0.25



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2023.01.07

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F020

Shipment Date: January,2023

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
2	Metallurgical Test Certificate	Page - 3
2.1	Mechanical Testing	Page - 3
2.2	Chemical Testing	Page -3
2.3	Heat Treatment	Page - 3
3	Hardness Test	Page - 4-12
4	Ultrasonic Testing	Page - 13-17
5	Magnetic Particle Inspection Report	Page - 18-26
6	Hydrostatic Test	Page - 27-28

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1392, DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE-0.5 CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: 1392
SERIAL NO.: AP050F020
PART NO.: PFFY105/103AL-00
QANTITY: 1
INSPECTION STANDARD: API Spec 6A 21st EE-0.5, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME:

(STAMP)

INSPECTOR:Zhicheng Feng

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: January,2023

Customer: _____

P.O. Number: **1392**

安澜科技（江苏）股份有限公司

No.: AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Date:January,2023

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	1392	HYDRAULIC GATE VALVE	PFFY105/103AL-00	AP050F020	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
PFFY105/103AL-00	BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	1	AP050028	Forging	860	3.5H	WATER	28	38	680	5.0H	AIR	/	/	/	
	BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050059	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/	/	
	STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050085	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	5.2H	AIR	
	BALANCE STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050080	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	5.2H	AIR	
	GATE	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	1	AP050141	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H	AIR	
	BODY BUSHING	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	2	AP050155 AP050160	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H	AIR	
	TAIL BONNET	22106193C	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050019	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/	/	

Melt No.	H.T. No.	Chemical Analysis (wt, %)													Physical Properties								
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
1027400A	RC-12-12	0.30	0.57	0.29	0.011	0.0037	1.02	0.03	0.213	0.001	/	/	0.01	/	/	4"x4"x8"	QTC	672	533	37.0	51.0	56/60/64	220HBW	JBW-300B/ WDW-300
22E105071	RC-12-09	0.30	0.56	0.30	0.010	0.002	0.99	0.03	0.21	0.003	/	/	0.02	/	/	4"x4"x8"	QTC	675	532	48.0	50.0	65/62/59	218HBW	JBW-300B/ WDW-300
YX2208-2234	HY221113-5	0.022	0.50	0.44	0.031	0.003	15.72	4.15	/	/	/	/	3.60	0.243	/	Φ80x200	QTC	1067	940	19.7	58.5	44/37/49	29HRC	JBW-300B/ WDW-300
YX2208-2234	HY221113-5	0.022	0.50	0.44	0.031	0.003	15.72	4.15	/	/	/	/	3.60	0.243	/	Φ80x200	QTC	1067	940	19.7	58.5	44/37/49	29HRC	JBW-300B/ WDW-300
2215800290	221110102Q2	0.14	0.30	0.44	0.015	0.016	12.12	0.11	/	/	/	/	0.06	/	/	100x100x200	QTC	722	560	27.0	66.0	/	222HBW	JBW-300B/ WDW-300
2215800290	221110102Q2	0.14	0.30	0.44	0.015	0.016	12.12	0.11	/	/	/	/	0.06	/	/	100x100x200	QTC	722	560	27.0	66.0	/	222HBW	JBW-300B/ WDW-300
22106193C	RC-12-09	0.31	0.57	0.27	0.010	0.005	1.06	0.23	0.24	0.01	/	/	0.03	/	/	4"x4"x8"	QTC	672	530	45.0	54.0	61/60/57	219HBW	JBW-300B/ WDW-300

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase order and have been found to be satisfactory.

The information in this report is true and correct to our knowledge.

Xin Zheng

NAME of QA Manager, for and on the authority of COMPANY NAME

安澜科技（江苏）股份有限公司

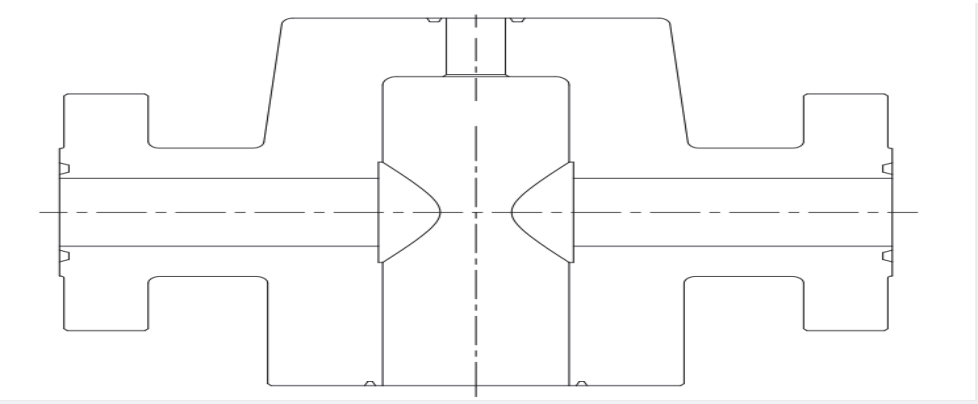
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1223-002
Part No.:	X-273130-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi　Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050028	RC-12-12	217HBW/220HBW 220HBW/211HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

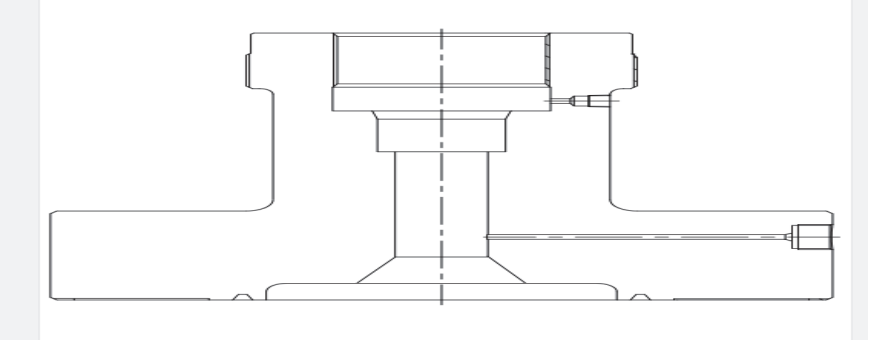
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1225-003
Part No.:	X-111876-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi　Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050059	RC-12-09	222HBW/224HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HP-1223-003
Part No.:	X-182791-01	Material:	PH17-4 105K			Coating:	/
Description:	4-1/16"15000psi　Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050085	HY221113-5	29HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

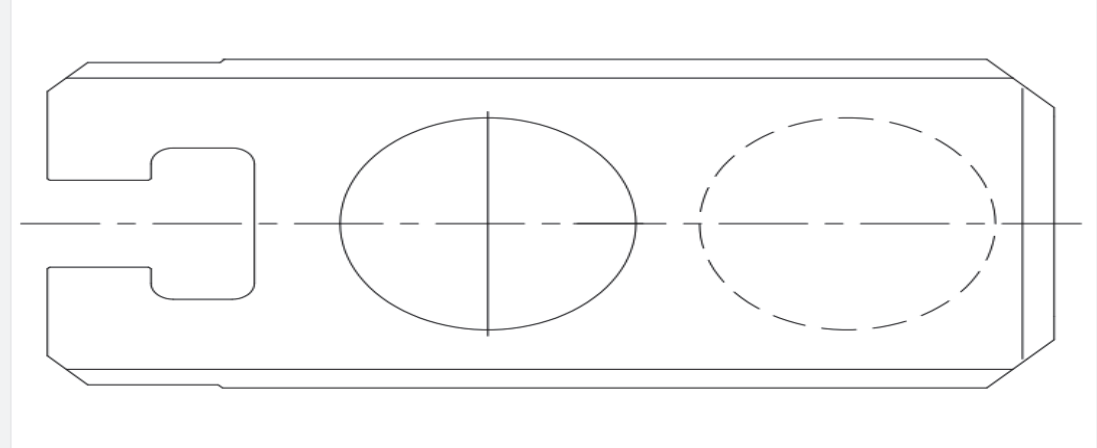
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HR221210-01
Part No.:	X-182778-01	Material:	AISI 410 75K			Coating:	/
Description:	4-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050141	221110102Q2	213HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

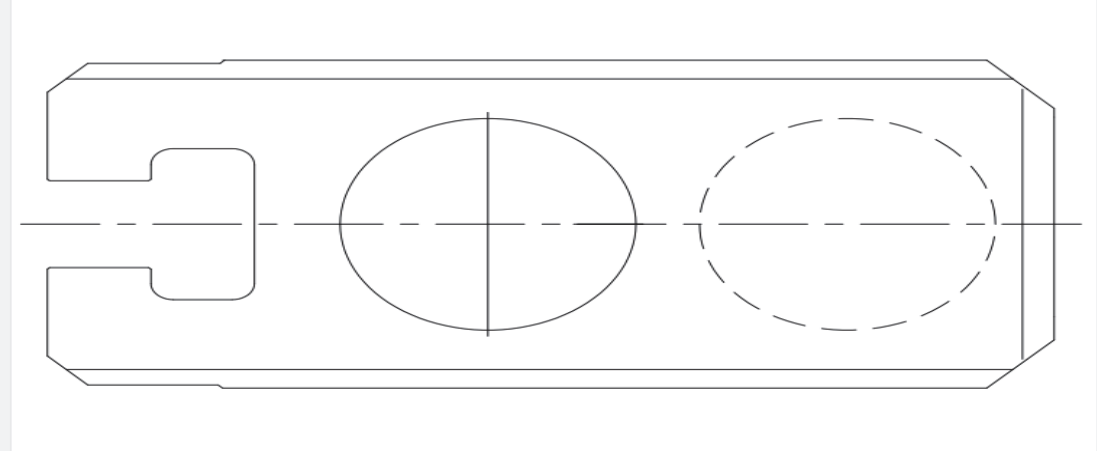
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	HR221210-03
Part No.:	X-182778-01	Material:	AISI 410 75K			Coating:	WC
Description:	4-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050141	221110102Q2	1280HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

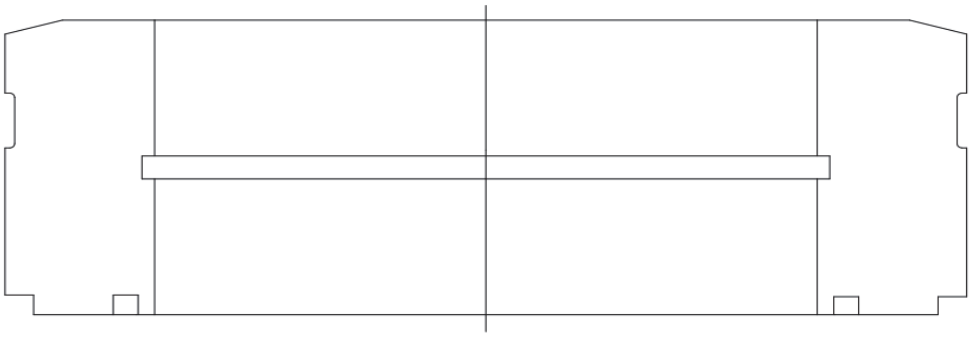
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HR221210-02
Part No.:	X-049613-01	Material:	AISI 410 75K			Coating:	/
Description:	4-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050155	221110102Q2	98HRB				
2	AP050160	221110102Q2	98HRB				

Sketch:



Method Used:			
Acceptable Hardness:	94HRB-99HRB	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

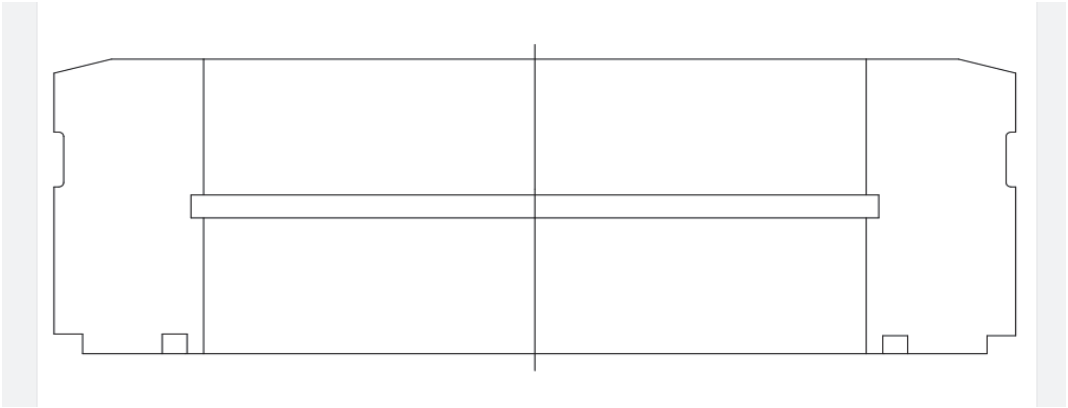
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	HR221210-04
Part No.:	X-049613-01	Material:	AISI 410 75K			Coating:	WC
Description:	4-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050155	221110102Q2	1288HV				
2	AP050160	221110102Q2	1295HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1392		Date:	2023.01
Drawing #:	PFFY105/103 AL-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HS-0103-001
Part No.:	X-111875-01	Material:	PH17-4 105K			Coating:	/
Description:	4-1/16"15000psi　Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050080	HY221113-5	31HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

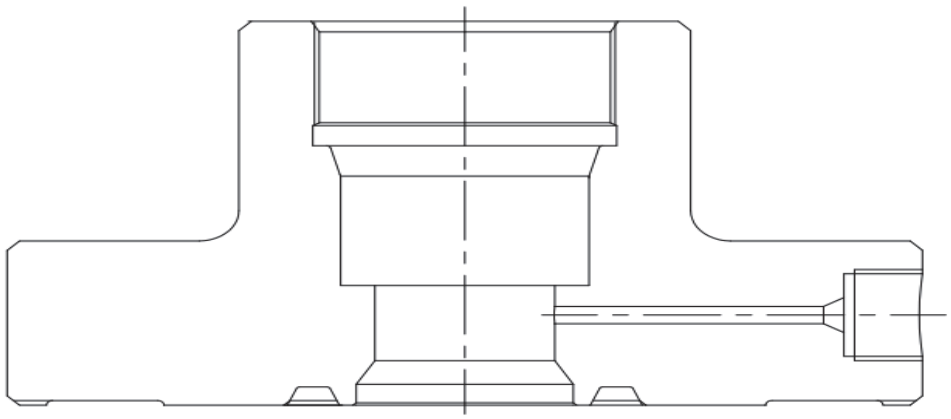
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:	
Drawing #:		Specification:		API Monogram:		Report #:	
Part No.:		Material:				Coating:	
Description:						Quantity:	

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050019	RC-12-09	220HBW/218HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103 AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-002
Part No.:	X-273130-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050028	RC-12-12	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block Φ6.4 FBH Block	Level as per UT:	Ⅱ
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB Φ6.4DAC+6dB	Level as per UT:	Ⅱ

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1225-001
Part No.:	X-111876-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050059	RC-12-09	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:	[redacted]		Customer PO#:	[redacted]		Date:	[redacted]
Drawing #:	[redacted]	Specification:	[redacted]	API Monogram:	[redacted]	Report #:	[redacted]
Part No.:	[redacted]	Material:	[redacted]			Coating:	[redacted]
Description:	4-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050085	HY221113-5	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1214-001
Part No.:	X-111875-01	Material:	PH17-4 105K			Coating:	/
Description:	4-1/16"15000psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050080	HY221113-5	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	Ⅱ
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	Ⅱ

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-001
Part No.:	X-111140-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050019	RC-12-09	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2021.03.02				
Period of validity	2022.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1223-001
Part No.:	X-273130-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi　Body					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3100A 2800A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3310Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050028	RC-12-12	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1225-001
Part No.:	X-111876-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:	API 6A 21st/PSL3	Circular AMPS:		2500A 3500A	
Test Method:	Fluorescence Wet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		3490Uw/cm^2	
Stage:	Machined	Concentration:	0.2ml/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050059	RC-12-09	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTP-1223-001
Part No.:	X-182791-01	Material:	PH17-4-105K			Coating:	/
Description:	4-1/16"15000psi	Stem				Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:		API 6A 21st/PSL3		Penetrate Type:	DPT-5
Remover Type:	DPT-5	Developer Type:		DPT-5		Light Intensity:	⩾1076Lx
Stage:	Machined	Penetrate Time:		10min		Develop Time:	10min

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050085	HY221113-5	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	HR221210-05
Part No.:	X-182778-01	Material:	AISI 410 75K			Coating:	/
Description:	4-1/16"15000psi Gate					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:	API 6A 21st/PSL3	Circular AMPS:		1600A	
Test Method:	Fluorescence Wet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/cm²	
Stage:	Machined	Concentration:	0.2ml/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050141	221110102Q2	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	HR221210-05H
Part No.:	X-182778-01	Material:	AISI 410 75K			Coating:	WC
Description:	4-1/16"15000psi Gate					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050141	221110102Q2	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	HR221210-04
Part No.:	X-049613-01	Material:	AISI 410 75K			Coating:	/
Description:	4-1/16"15000psi Body Bushing					Quantity:	2
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3200A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050155	221110102Q2	Acceptable				
2	AP050160	221110102Q2	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	HR221210-04H
Part No.:	X-049613-01	Material:	AISI 410 75K			Coating:	WC
Description:	4-1/16"15000psi Body Bushing					Quantity:	2
Test Method:	Type II Method C	Acceptance Criteria:		API 6A 21st/PSL3	Penetrate Type:		DPT-5
Remover Type:	DPT-5	Developer Type:		DPT-5	Light Intensity:		≥1076Lx
Stage:	Machined	Penetrate Time:		10min	Develop Time:		10min

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050155	221110102Q2	Acceptable				
2	AP050160	221110102Q2	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1392		Date:	2023.01
Drawing #:	PFFY105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	STP-0103-001
Part No.:	X-111875-01	Material:	PH17-4 105K			Coating:	/
Description:	4-1/16"15000psi Balance Stem					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050080	HY221113-5	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.01

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1220-001
Part No.:	X-111140-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi Tail Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:	API 6A 21st/PSL3	Circular AMPS:		2500A 3500A	
Test Method:	Fluorescence Wet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		3490Uw/cm^2	
Stage:	Machined	Concentration:	0.2ml/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP050019	RC-12-09	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2022.12

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	1392		Date:	2023.01
Drawing #:	PFFY105/103 AL-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP050F020
Part No.:	X-273130-01	Material:	AISI 4130 75K			Coating:	/
Description:	4-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A 21st	1	OK
TAIL BONNET	15000psi	API 6A 21st	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	AP050028	RC-12-12	OK	OK					

Drift Test：

Diameter Φ 102.46mm drift test gauge can freely pass through the through hole of the valve.

Inspection Coverage:

Per Specification & Requirements: API 6A 21st

		Approved By:	Examined By:
Judgments:	[V] Conforms	Xin Zheng	Yifei Ma
	[ ] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

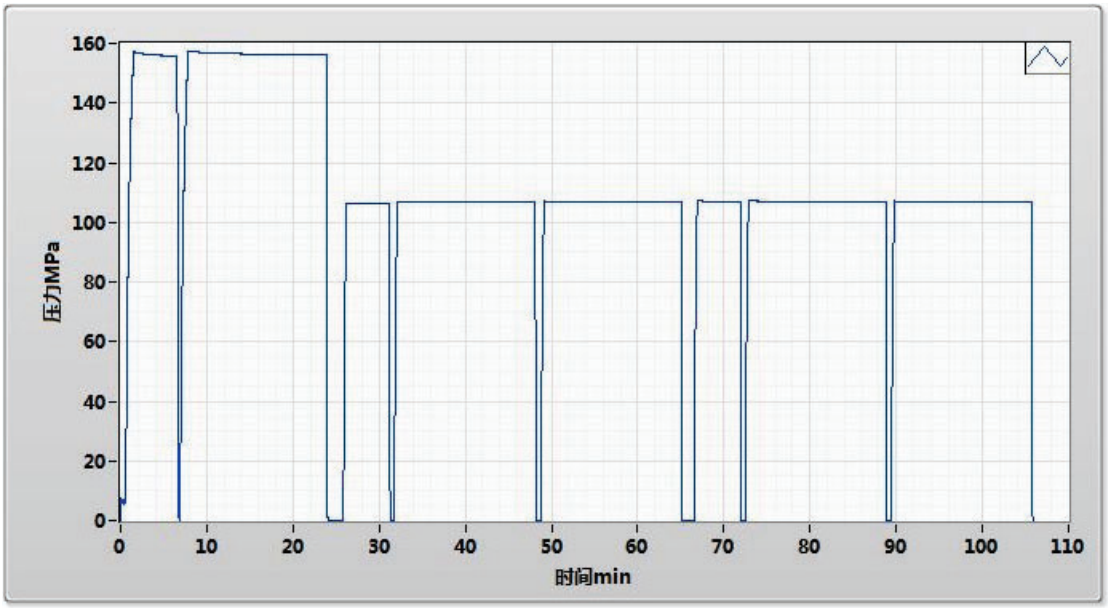
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F020	4-1/16" 15000Psi	API 6A 21st	Shell & TAIL BONNET	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.52	155.69	4.0	0.84
2	157.09	156.12	15.0	0.98
3	106.30	106.22	4.0	0.08
4	106.90	106.71	15.0	0.19
5	106.95	106.69	15.0	0.26
6	107.08	106.91	4.0	0.17
7	107.12	106.76	15.0	0.36
8	107.00	106.78	15.0	0.22



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2023.01.08

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

REPORT INDEX

Purchase Order: 1437

Quantity: 1EA

Shipment No.: Crate# AP064F032

Shipment Date: April，2023

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
2	Metallurgical Test Certificate	Page - 3
2.1	Mechanical Testing	Page - 3
2.2	Chemical Testing	Page -3
2.3	Heat Treatment	Page - 3
3	Hardness Test	Page - 4-12
4	Ultrasonic Testing	Page - 13-17
5	Magnetic Particle Inspection Report	Page - 18-26
6	Hydrostatic Test	Page - 27-28

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1437, DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE-0.5 CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: 1437
SERIAL NO.: AP064F032
PART NO.: PFFY105/180-00
QANTITY: 1
INSPECTION STANDARD: API Spec 6A 21st EE-0.5, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME:

(STAMP)

INSPECTOR:Zhicheng Feng

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: April，2023

Customer: _____

P.O. Number: **1437**

安澜科技（江苏）股份有限公司

No.： AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Date:April，2023

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	1437	HYDRAULIC GATE VALVE	PFFY105/180-00	AP064F032	1	7-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
PFFY105/180-00	BODY	TX22-05908	HY230313-5	AISI 4130 75K,Per ASTM A29	1	AP064045	Forging	870	5.5H	WATER	18	21	670	7.4H	AIR	/	/	/	
	UPPER BONNET	TX22-05906	RD-0202-003	AISI 4130 75K,Per ASTM A29	1	AP064072	Forging	870	5.3H	WATER	19	25	658	8.0H	AIR	/	/	/	
	LOWER BONNET	22DV0368	RD-03-18	AISI 4130 75K,Per ASTM A29	1	AS007164	Forging	860	5.0H	WATER	26	39	690	7.0H	AIR	/	/	/	
	STEM	YX2211-1565	HY230222-4	PH17-4 105K,Per ASTM A564/564M	1	AP064342	Forging	1030	3.6H	WATER	15	17	630	5.3H	AIR	630	5.1H	AIR	
	BALANCE STEM	YX2301-1601	HY230211-4	PH17-4 105K,Per ASTM A564/564M	1	AS001039	Forging	1030	3.5H	WATER	14	17	630	5.0H	AIR	630	5.2H	AIR	
	GATE	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	1	AP064587	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	
	BODY BUSHING	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	2	AP064550 AP064541	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	

		Chemical Analysis (wt, %)													Physical Properties								
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
TX22-05908	HY230313-5	0.31	0.67	0.30	0.009	0.007	1.06	0.20	0.21	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	702	539	21.7	60.5	44/61/38	219HBW	JBW-300B/ WDW-300
TX22-05906	RD-0202-003	0.31	0.67	0.26	0.009	0.003	1.04	0.20	0.217	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	715	535	32.0	63.0	42/45/75	232HBW	JBW-300B/ WDW-300
22DV0368	RD-03-18	0.316	0.732	0.301	0.008	0.004	1.08	0.25	0.216	0.007	/	/	0.091	/	/	8"x8"x10"	QTC	673	546	50.0	63.0	58/62/52	219HBW	JBW-300B/ WDW-300
YX2211-1565	HY230222-4	0.021	0.50	0.41	0.028	0.001	15.66	4.08	/	/	/	/	3.61	0.226	/	Φ80x200	QTC	1017	941	20.4	57.5	45/33/51	32HRC	JBW-300B/ WDW-300
YX2301-1601	HY230211-4	0.026	0.56	0.41	0.032	0.001	15.70	4.08	/	/	/	/	3.63	0.240	/	Φ80x200	QTC	1018	933	21.2	57.5	55/59/40	31HRC	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase order and have been found to be satisfactory.

The information in this report is true and correct to our knowledge.

Xin Zheng

NAME of QA Manager, for and on the authority of COMPANY NAME

安澜科技（江苏）股份有限公司

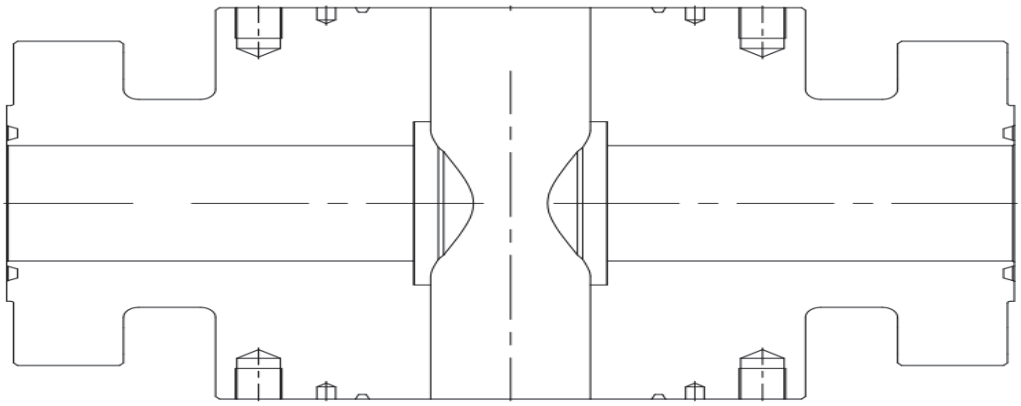
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0325-005
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064045	HY230313-5	207HBW/219HBW 214HBW/215HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

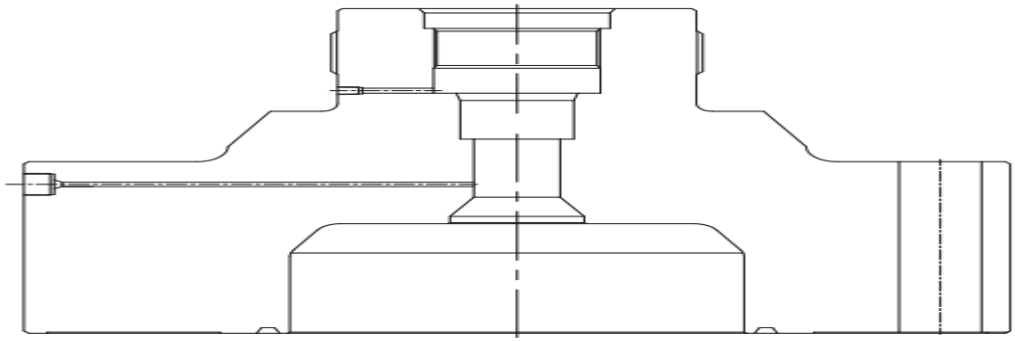
ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0314-002
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064072	RD-0202-003	225HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of tungsten ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[ ] Does Not Conform		

安澜科技（江苏）股份有限公司

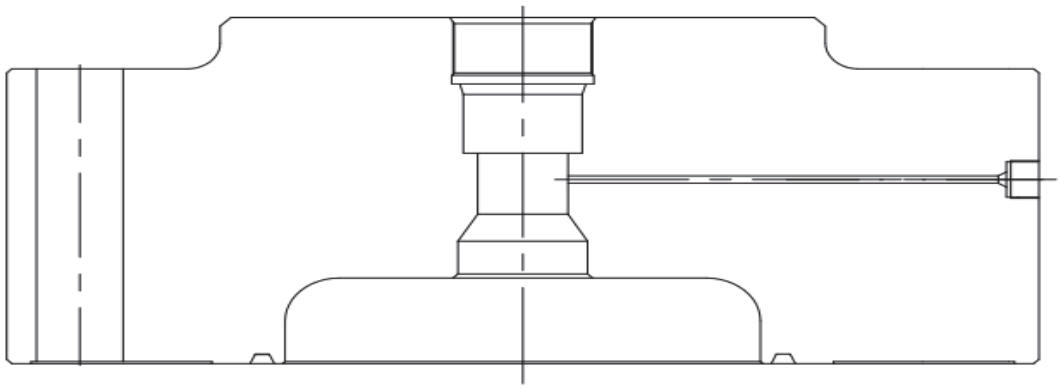
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0320-005
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007164	RD-03-18	217HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of tungsten ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

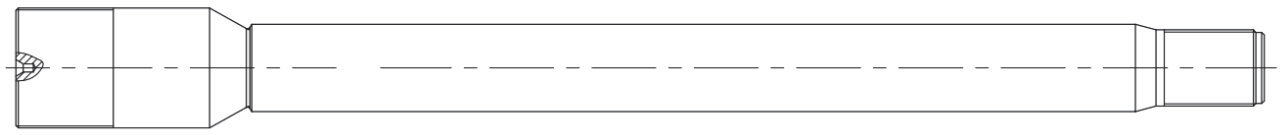
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HS-0309-003
Part No.:	X-182716-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi　Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064342	HY230222-4	31HRC				

Sketch:



Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

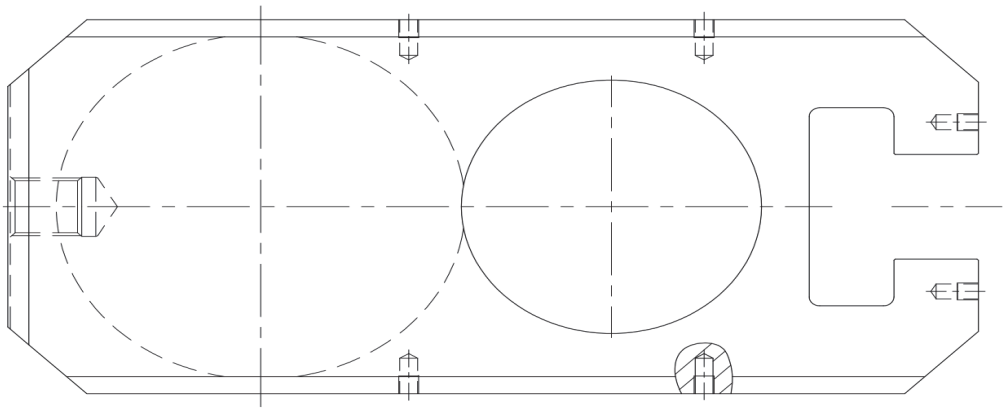
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230303-01
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064587	HC2302005-01	235HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

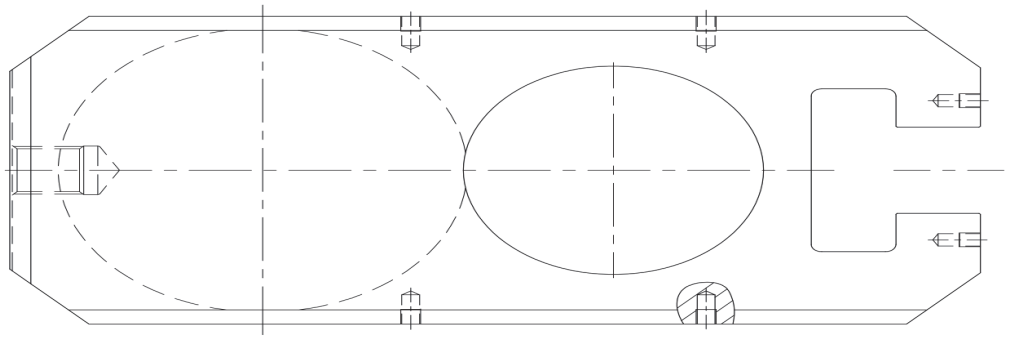
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230303-03
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064587	HC2302005-01	1171HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

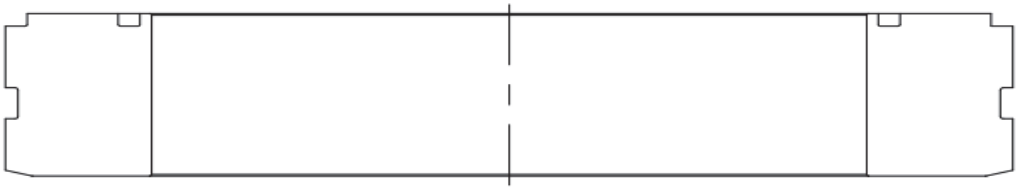
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230303-02
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064550	HC2302005-01	214HBW				
2	AP064541	HC2302005-01	215HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

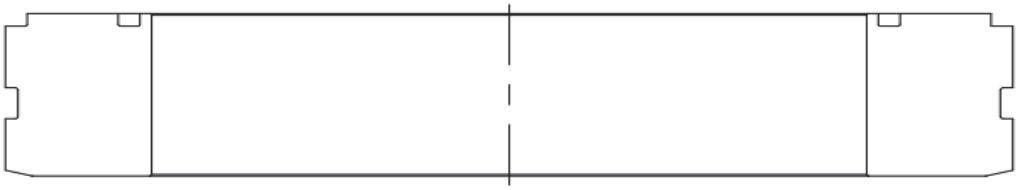
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230303-04
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064550	HC2302005-01	1171HV				
2	AP064541	HC2302005-01	1197HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HS-0321-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi　Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS001039	HY230211-4	31HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0319-003
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064045	HY230313-5	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block Φ6.4 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB Φ6.4DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:	[redacted]		Customer PO#:	[redacted]		Date:	[redacted]
Drawing #:	[redacted]	Specification:	[redacted]	API Monogram:	[redacted]	Report #:	[redacted]
Part No.:	[redacted]	Material:	[redacted]			Coating:	[redacted]
Description:	7-1/16"15000psi　Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064072	RD-0202-003	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST.　HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0310-001
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007164	RD-03-18	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0302-001
Part No.:	X-182716-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064342	HY230222-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0316-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS001039	HY230211-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0324-003
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3100A 2800A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3310Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064045	HY230313-5	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0314-002
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064072	RD-0202-003	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0320-001
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007164	RD-03-18	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0308-001
Part No.:	X-182716-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi	Stem				Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064342	HY230222-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2303-Q02
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Gate					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		1600A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064587	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2303-H02
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Gate					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064587	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2303-Q03
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3200A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064550	HC2302005-01	Acceptable				
2	AP064541	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2303-H03
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Test Method:	Type II Method C	Acceptance Criteria:		API 6A 21st/PSL3	Penetrate Type:		DPT-5
Remover Type:	DPT-5	Developer Type:		DPT-5	Light Intensity:		≥1076Lx
Stage:	Machined	Penetrate Time:		10min	Develop Time:		10min

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064550	HC2302005-01	Acceptable				
2	AP064541	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0320-001
Part No.:	X-182591-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS001039	HY230211-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP064F032
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A 21st	1	OK
Seat	15000psi	API 6A 21st	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	AP064045	HY230313-5	OK	OK					

Drift Test：

Diameter Φ 179.7 mm drift test gauge can freely pass through the through hole of the valve.

Inspection Coverage:

Per Specification & Requirements: API 6A 21st

		Approved By:	Examined By:
Judgments:	[V] Conforms	Xin Zheng	Yifei Ma
	[ ] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

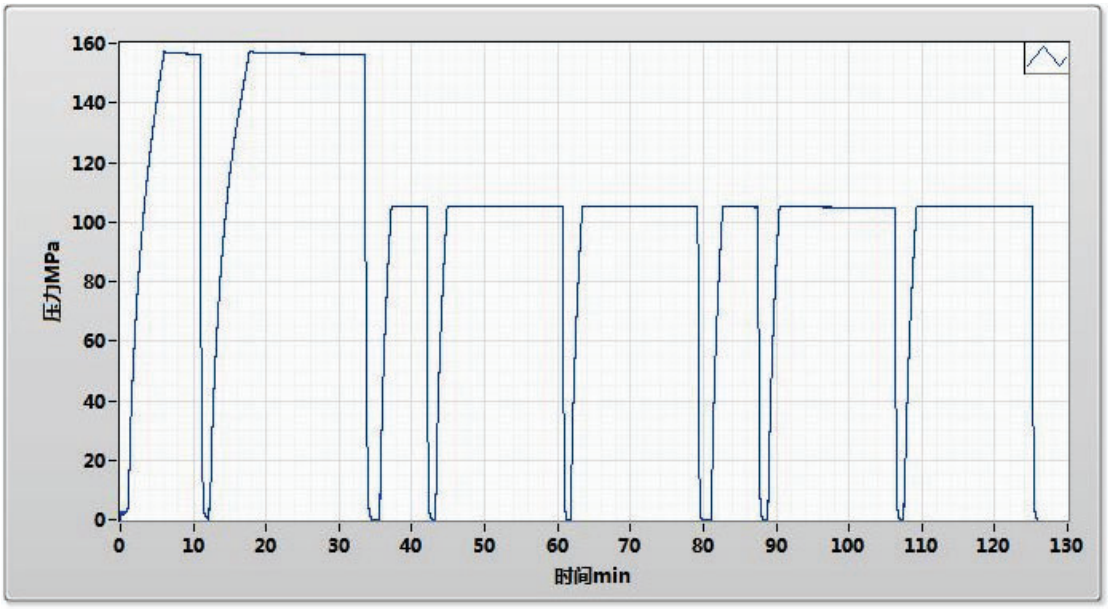
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP064F032	7-1/16" 15000Psi	API 6A　21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.87	156.30	4.0	0.57
2	156.99	156.22	15.0	0.77
3	105.29	105.23	4.0	0.06
4	105.20	105.00	15.0	0.20
5	105.24	105.02	15.0	0.21
6	105.11	104.96	4.0	0.15
7	105.14	104.83	15.0	0.30
8	105.26	105.02	15.0	0.24



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei　Ma	Xin Zheng	Zhicheng Feng	2023.03.29

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

REPORT INDEX

Purchase Order: 1437

Quantity: 1EA

Shipment No.: Crate# AP064F033

Shipment Date: April，2023

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2	Metallurgical Test Certificate	Page - 3
2.1	Mechanical Testing	Page - 3
2.2	Chemical Testing	Page -3
2.3	Heat Treatment	Page - 3
3	Hardness Test	Page - 4-12
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安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1437, DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE-0.5 CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: 1437
SERIAL NO.: AP064F033
PART NO.: PFFY105/180-00
QANTITY: 1
INSPECTION STANDARD: API Spec 6A 21st EE-0.5, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME:

(STAMP)

INSPECTOR:Zhicheng Feng

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: April，2023

Customer: _____

P.O. Number: **1437**

安澜科技（江苏）股份有限公司

No.： AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Date:April，2023

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	1437	HYDRAULIC GATE VALVE	PFFY105/180-00	AP064F033	1	7-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
PFFY105/180-00	BODY	22DV0372	RD-03-38	AISI 4130 75K,Per ASTM A29	1	AS007010	Forging	860	6.0H	WATER	27	39	680	8.0H	AIR	/	/	/	
	UPPER BONNET	TX22-05906	RD-0202-003	AISI 4130 75K,Per ASTM A29	1	AP064070	Forging	870	5.3H	WATER	19	25	658	8.0H	AIR	/	/	/	
	LOWER BONNET	TX22-05906	RD-02-34	AISI 4130 75K,Per ASTM A29	1	AP064149	Forging	860	6.0H	WATER	26	39	670	11.0H	AIR	/	/	/	
	STEM	YX2211-1565	HY230222-4	PH17-4 105K,Per ASTM A564/564M	1	AP064340	Forging	1030	3.6H	WATER	15	17	630	5.3H	AIR	630	5.1H	AIR	
	BALANCE STEM	YX2301-1601	HY230211-4	PH17-4 105K,Per ASTM A564/564M	1	AS007086	Forging	1030	3.5H	WATER	14	17	630	5.0H	AIR	630	5.2H	AIR	
	GATE	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	1	AS001080	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	
	BODY BUSHING	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	2	AP064539 AP064531	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	

		Chemical Analysis (wt, %)													Physical Properties								
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
22DV0372	RD-03-38	0.31	0.64	0.29	0.004	0.003	1.02	0.22	0.19	0.006	/	/	0.1	/	/	8"x8"x10"	QTC	678	542	55.0	62.0	63/66/56	220HBW	JBW-300B/ WDW-300
TX22-05906	RD-0202-003	0.31	0.67	0.26	0.009	0.003	1.04	0.20	0.217	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	715	535	32.0	63.0	42/45/75	232HBW	JBW-300B/ WDW-300
TX22-05906	RD-02-34	0.31	0.67	0.26	0.009	0.003	1.04	0.20	0.217	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	687	559	48.0	55.0	61/55/58	219HBW	JBW-300B/ WDW-300
YX2211-1565	HY230222-4	0.021	0.50	0.41	0.028	0.001	15.66	4.08	/	/	/	/	3.61	0.226	/	Φ80x200	QTC	1017	941	20.4	57.5	45/33/51	32HRC	JBW-300B/ WDW-300
YX2301-1601	HY230211-4	0.026	0.56	0.41	0.032	0.001	15.70	4.08	/	/	/	/	3.63	0.240	/	Φ80x200	QTC	1018	933	21.2	57.5	55/59/40	31HRC	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase order and have been found to be satisfactory.

The information in this report is true and correct to our knowledge.

Xin Zheng

NAME of QA Manager, for and on the authority of COMPANY NAME

安澜科技（江苏）股份有限公司

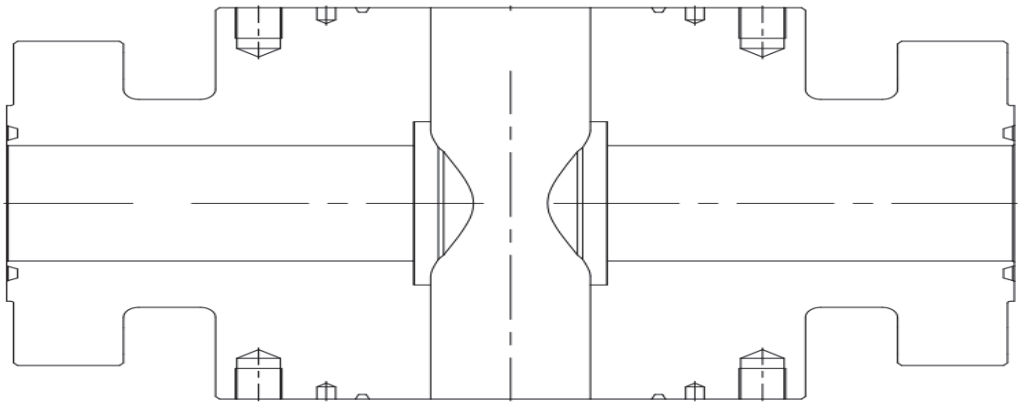
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0325-005
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007010	RD-03-38	209HBW/223HBW 217HBW/216HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

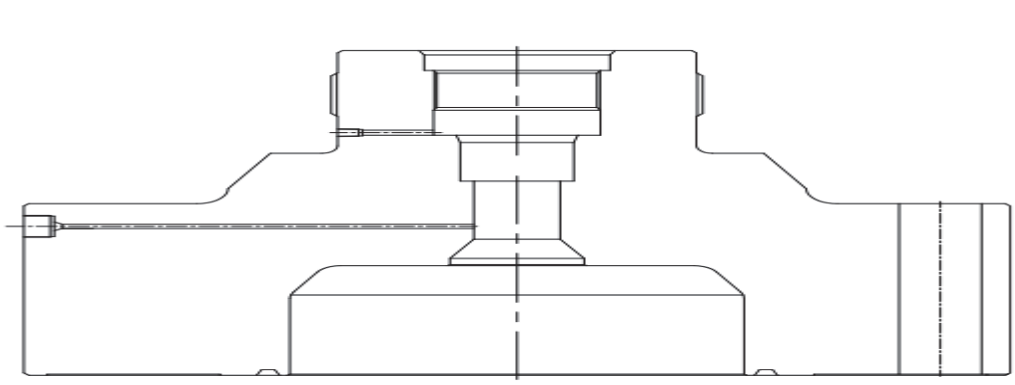
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0314-002
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064070	RD-0202-003	227HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of tungsten ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

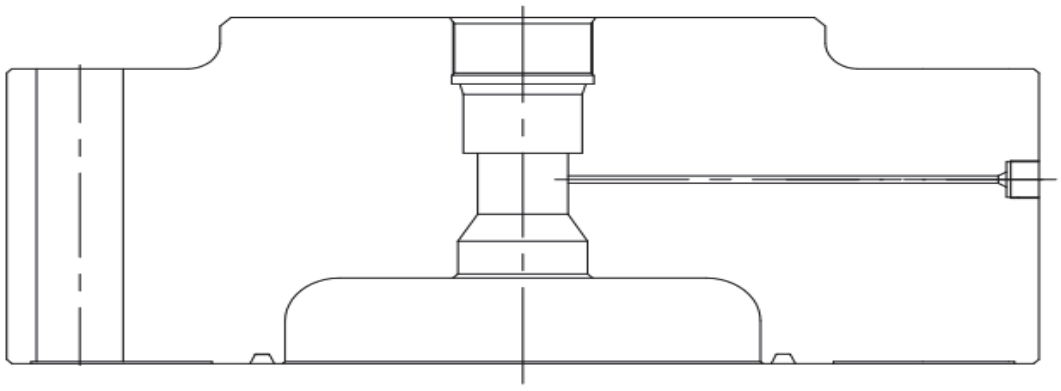
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0317-004
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064149	RD-02-34	235HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

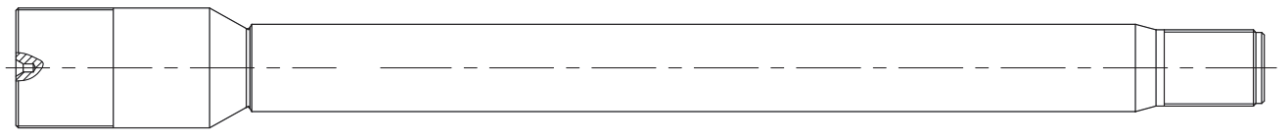
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074
Report #:	HS-0309-003				
Part No.:	X-182716-01	Material:	PH17-4 105K	Coating:	/
Description:	7-1/16"15000psi　Stem			Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064340	HY230222-4	30HRC				

Sketch:



Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

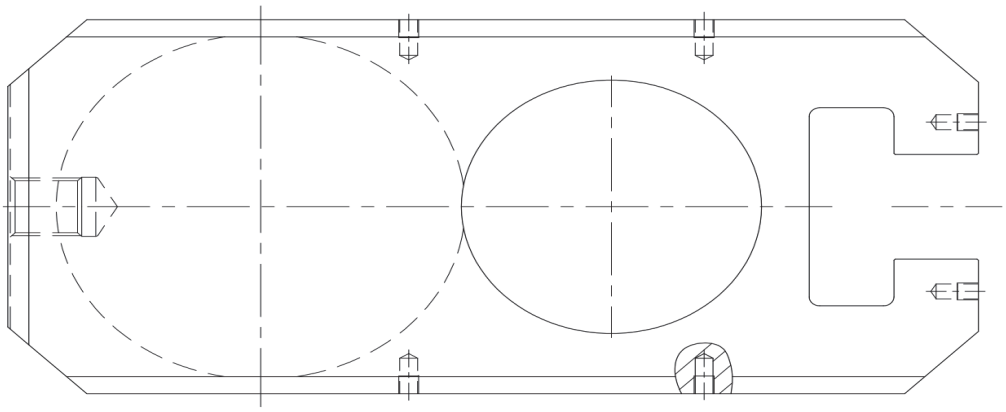
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230311-01
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS001080	HC2302005-01	234HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

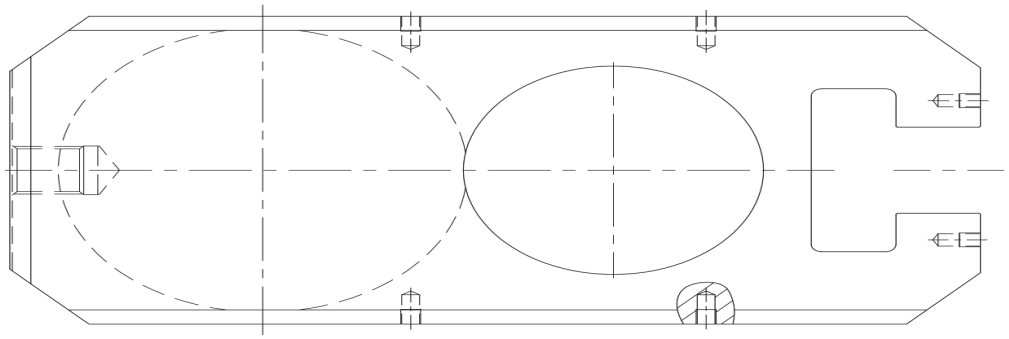
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230311-02
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS001080	HC2302005-01	1314HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

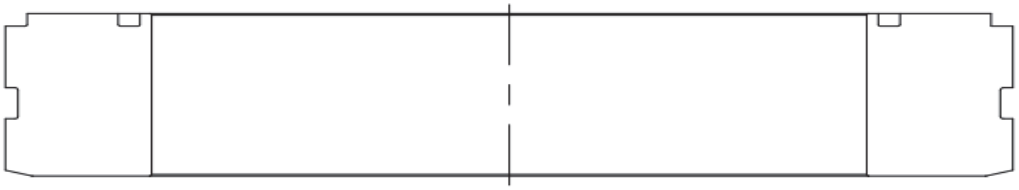
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230303-02
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064539	HC2302005-01	216HBW				
2	AP064531	HC2302005-01	231HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

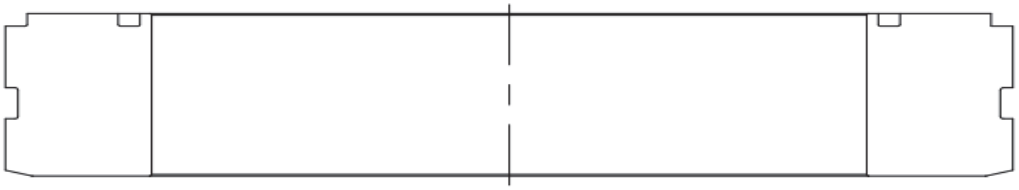
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230303-04
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064539	HC2302005-01	1197HV				
2	AP064531	HC2302005-01	1171HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HS-0321-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi　Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007086	HY230211-4	29HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0321-002
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007010	RD-03-38	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block Φ6.4 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB Φ6.4DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:	[redacted]		Customer PO#:	[redacted]		Date:	[redacted]
Drawing #:	[redacted]	Specification:	[redacted]	API Monogram:	[redacted]	Report #:	[redacted]
Part No.:	[redacted]	Material:	[redacted]			Coating:	[redacted]
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064070	RD-0202-003	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.02
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0227-002
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064149	RD-02-34	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0302-001
Part No.:	X-182716-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064340	HY230222-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0315-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007086	HY230211-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0325-002
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3100A 2800A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3310Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007010	RD-03-38	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0314-002
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064070	RD-0202-003	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0317-001
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064149	RD-02-34	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0308-001
Part No.:	X-182716-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi	Stem				Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064340	HY230222-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2303-Q29
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Gate					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		1600A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS001080	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2303-H29
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Gate					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS001080	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2303-Q03
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3200A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064539	HC2302005-01	Acceptable				
2	AP064531	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2303-H03
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064539	HC2302005-01	Acceptable				
2	AP064531	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0321-002
Part No.:	X-182591-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007086	HY230211-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP064F033
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A 21st	1	OK
Seat	15000psi	API 6A 21st	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	AS007010	RD-03-38	OK	OK					

Drift Test：

Diameter Φ 179.7 mm drift test gauge can freely pass through the through hole of the valve.

Inspection Coverage:

Per Specification & Requirements: API 6A 21st

		Approved By:	Examined By:
Judgments:	[V] Conforms	Xin Zheng	Yifei Ma
	[ ] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

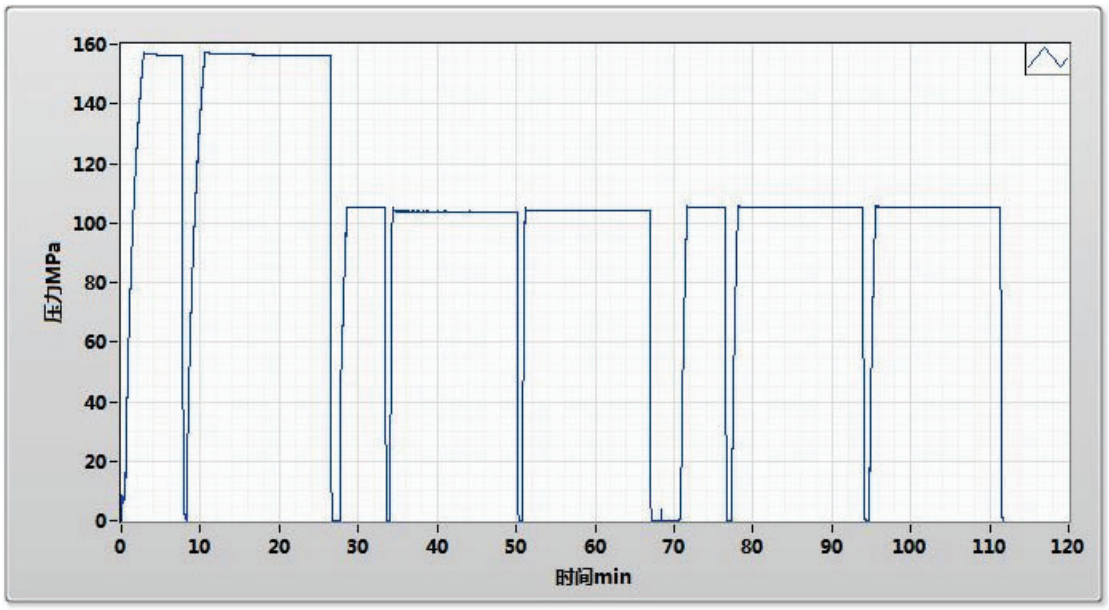
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP064F033	7-1/16" 15000Psi	API 6A　21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.73	156.06	4.0	0.67
2	157.01	156.14	15.0	0.87
3	105.30	105.30	4.0	0.00
4	104.89	104.86	15.0	0.03
5	105.00	104.96	15.0	0.04
6	105.40	105.30	4.0	0.09
7	105.46	105.22	15.0	0.23
8	105.45	105.25	15.0	0.20



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei　Ma	Xin Zheng	Zhicheng Feng	2023.03.28

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

REPORT INDEX

Purchase Order: 1437

Quantity: 1EA

Shipment No.: Crate# AP064F034

Shipment Date: April，2023

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
2	Metallurgical Test Certificate	Page - 3
2.1	Mechanical Testing	Page - 3
2.2	Chemical Testing	Page -3
2.3	Heat Treatment	Page - 3
3	Hardness Test	Page - 4-12
4	Ultrasonic Testing	Page - 13-17
5	Magnetic Particle Inspection Report	Page - 18-26
6	Hydrostatic Test	Page - 27-28

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1437, DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE-0.5 CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: 1437
SERIAL NO.: AP064F034
PART NO.: PFFY105/180-00
QANTITY: 1
INSPECTION STANDARD: API Spec 6A 21st EE-0.5, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME:

(STAMP)

INSPECTOR:Zhicheng Feng

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: April，2023

Customer: _____

P.O. Number: **1437**

安澜科技（江苏）股份有限公司

No.： AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Date:April，2023

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	1437	HYDRAULIC GATE VALVE	PFFY105/180-00	AP064F034	1	7-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
PFFY105/180-00	BODY	22DV0340	HY230318-2	AISI 4130 75K,Per ASTM A29	1	AS007012	Forging	870	5.5H	WATER	20	23	680	7.7H	AIR	/	/	/	
	UPPER BONNET	TX22-05906	RD-0202-003	AISI 4130 75K,Per ASTM A29	1	AP064071	Forging	870	5.3H	WATER	19	25	658	8.0H	AIR	/	/	/	
	LOWER BONNET	22DV0368	RD-03-09	AISI 4130 75K,Per ASTM A29	1	AS007027	Forging	860	6.0H	WATER	26	38	670	8.0H	AIR	/	/	/	
	STEM	YX2211-1565	HY230222-4	PH17-4 105K,Per ASTM A564/564M	1	AP064317	Forging	1030	3.6H	WATER	15	17	630	5.3H	AIR	630	5.1H	AIR	
	BALANCE STEM	YX2301-1601	HY230211-4	PH17-4 105K,Per ASTM A564/564M	1	AS007173	Forging	1030	3.5H	WATER	14	17	630	5.0H	AIR	630	5.2H	AIR	
	GATE	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	1	AP064583	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	
	BODY BUSHING	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	2	AP064547 AP064546	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	

		Chemical Analysis (wt, %)													Physical Properties								
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
22DV0340	HY230318-2	0.31	0.69	0.31	0.005	0.004	1.04	0.23	0.19	0.006	/	/	0.06	/	/	8"x8"x10"	QTC	703	539	22.4	66.8	47/55/40	221HBW	JBW-300B/ WDW-300
TX22-05906	RD-0202-003	0.31	0.67	0.26	0.009	0.003	1.04	0.20	0.217	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	715	535	32.0	63.0	42/45/75	232HBW	JBW-300B/ WDW-300
22DV0368	RD-03-09	0.316	0.732	0.301	0.008	0.004	1.08	0.25	0.216	0.007	/	/	0.091	/	/	8"x8"x10"	QTC	680	558	54.0	58.0	61/66/56	220HBW	JBW-300B/ WDW-300
YX2211-1565	HY230222-4	0.021	0.50	0.41	0.028	0.001	15.66	4.08	/	/	/	/	3.61	0.226	/	Φ80x200	QTC	1017	941	20.4	57.5	45/33/51	32HRC	JBW-300B/ WDW-300
YX2301-1601	HY230211-4	0.026	0.56	0.41	0.032	0.001	15.70	4.08	/	/	/	/	3.63	0.240	/	Φ80x200	QTC	1018	933	21.2	57.5	55/59/40	31HRC	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase order and have been found to be satisfactory.

The information in this report is true and correct to our knowledge.

Xin Zheng

NAME of QA Manager, for and on the authority of COMPANY NAME

安澜科技（江苏）股份有限公司

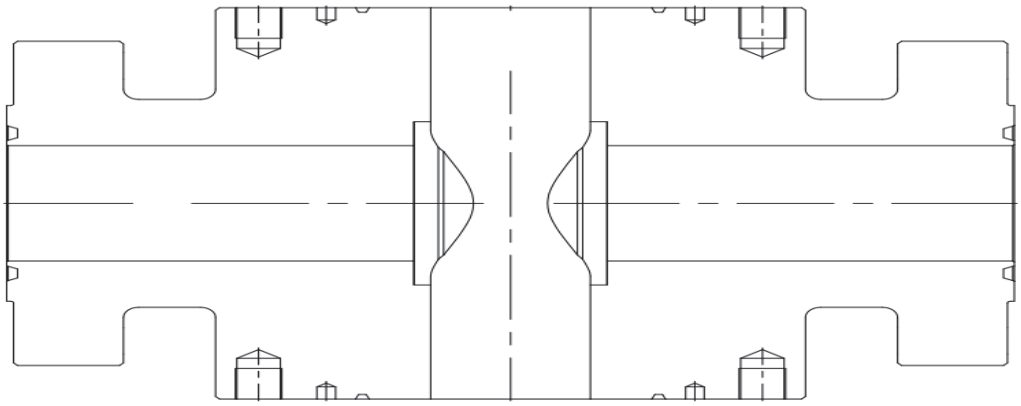
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0325-005
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007012	HY230318-2	209HBW/218HBW 229HBW/213HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

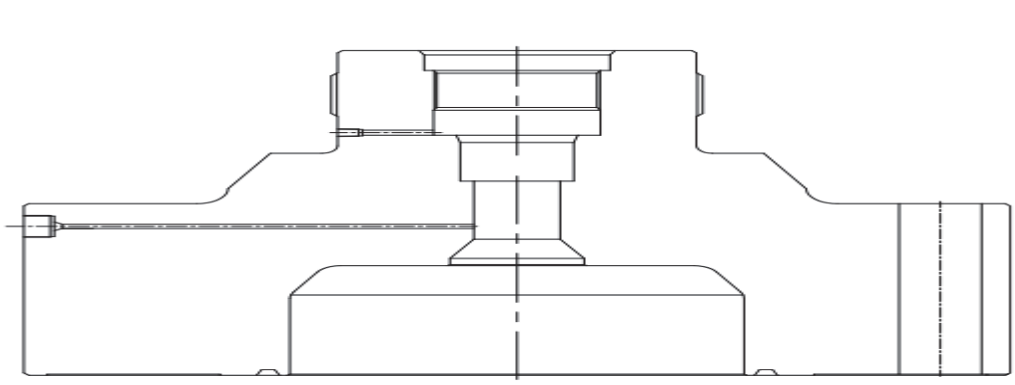
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0314-002
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064071	RD-0202-003	223HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of tungsten ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

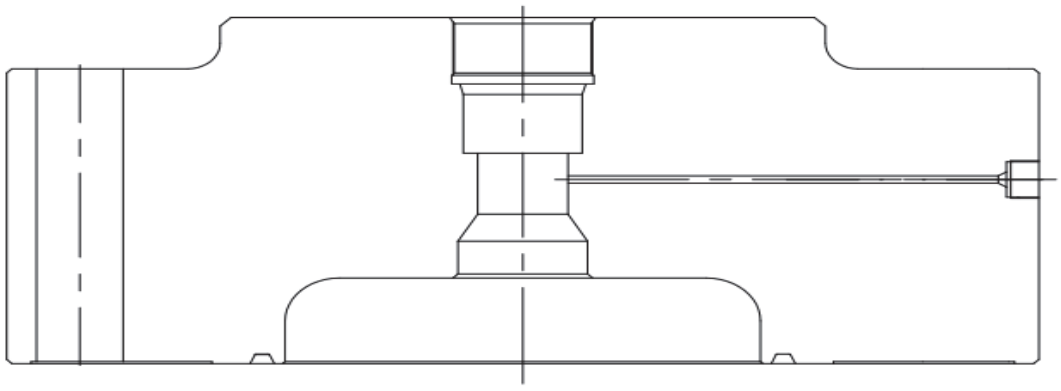
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0317-004
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007027	RD-03-09	215HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of tungsten ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

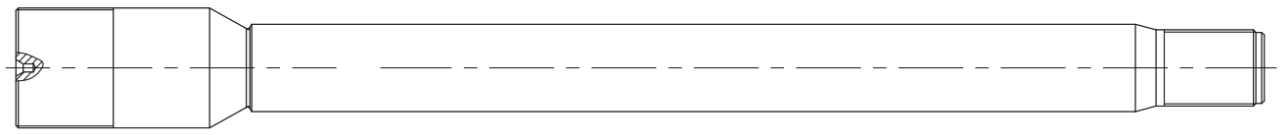
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074
Part No.:	X-182716-01	Material:	PH17-4 105K	Coating:	/
Description:	7-1/16"15000psi　Stem			Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064317	HY230222-4	29HRC				

Sketch:



Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

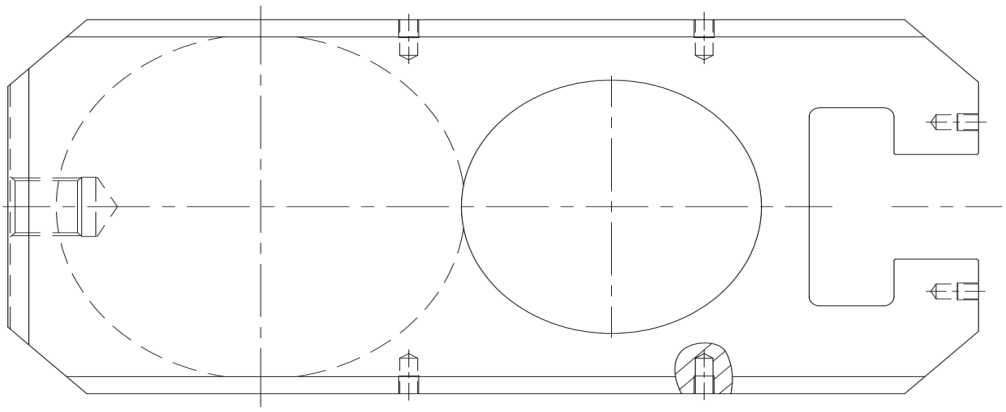
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230303-01
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064583	HC2302005-01	228HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

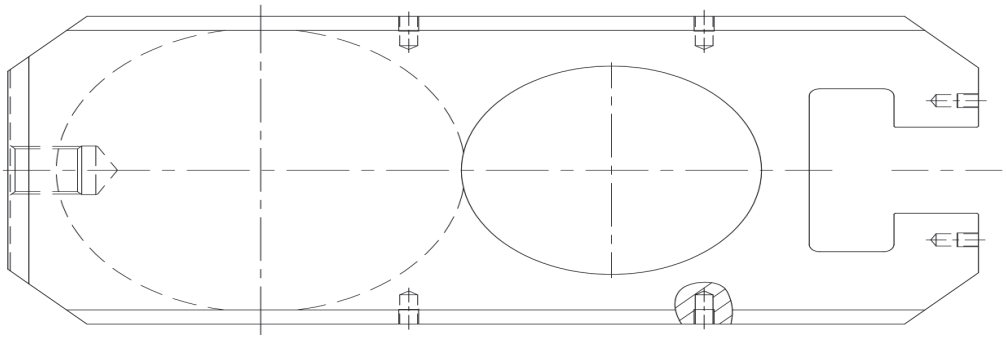
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230303-03
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064583	HC2302005-01	1197HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

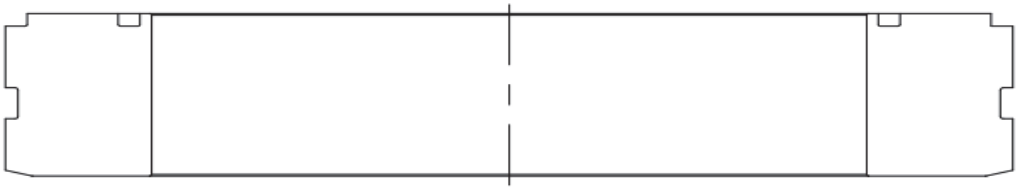
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230303-02
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064547	HC2302005-01	212HBW				
2	AP064546	HC2302005-01	222HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

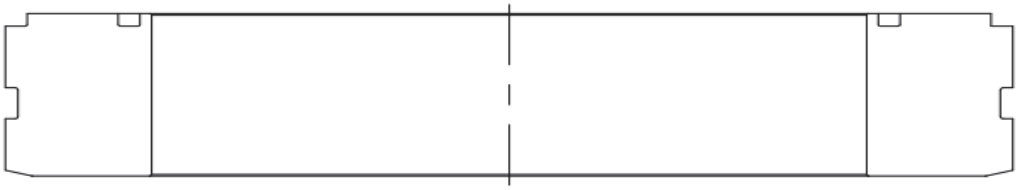
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230303-04
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064547	HC2302005-01	1197HV				
2	AP064546	HC2302005-01	1197HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HS-0321-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi　Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007173	HY230211-4	30HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0321-002
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007012	HY230318-2	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block Φ6.4 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB Φ6.4DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:	[redacted]		Customer PO#:	[redacted]		Date:	[redacted]
Drawing #:	[redacted]	Specification:	[redacted]	API Monogram:	[redacted]	Report #:	[redacted]
Part No.:	[redacted]	Material:	[redacted]			Coating:	[redacted]
Description:	7-1/16"15000psi　Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064071	RD-0202-003	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST.　HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0310-001
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007027	RD-03-09	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0302-001
Part No.:	X-182716-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064317	HY230222-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0315-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007173	HY230211-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0325-002
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3100A 2800A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3310Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007012	HY230318-2	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0314-002
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064071	RD-0202-003	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0316-001
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007027	RD-03-09	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0304-001
Part No.:	X-182716-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi	Stem				Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064317	HY230222-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2303-Q02
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Gate					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:	API 6A 21st/PSL3	Circular AMPS:		1600A	
Test Method:	Fluorescence Wet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/cm²	
Stage:	Machined	Concentration:	0.2ml/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064583	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2303-H02
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Gate					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064583	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2303-Q03
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3200A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064547	HC2302005-01	Acceptable				
2	AP064546	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2303-H03
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Test Method:	Type II Method C	Acceptance Criteria:		API 6A 21st/PSL3	Penetrate Type:		DPT-5
Remover Type:	DPT-5	Developer Type:		DPT-5	Light Intensity:		≥1076Lx
Stage:	Machined	Penetrate Time:		10min	Develop Time:		10min

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064547	HC2302005-01	Acceptable				
2	AP064546	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0321-002
Part No.:	X-182591-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007173	HY230211-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP064F034
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A 21st	1	OK
Seat	15000psi	API 6A 21st	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	AS007012	HY230318-2	OK	OK					

Drift Test：

Diameter Φ 179.7 mm drift test gauge can freely pass through the through hole of the valve.

Inspection Coverage:

Per Specification & Requirements: API 6A 21st

		Approved By:	Examined By:
Judgments:	[V] Conforms	Xin Zheng	Yifei Ma
	[ ] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

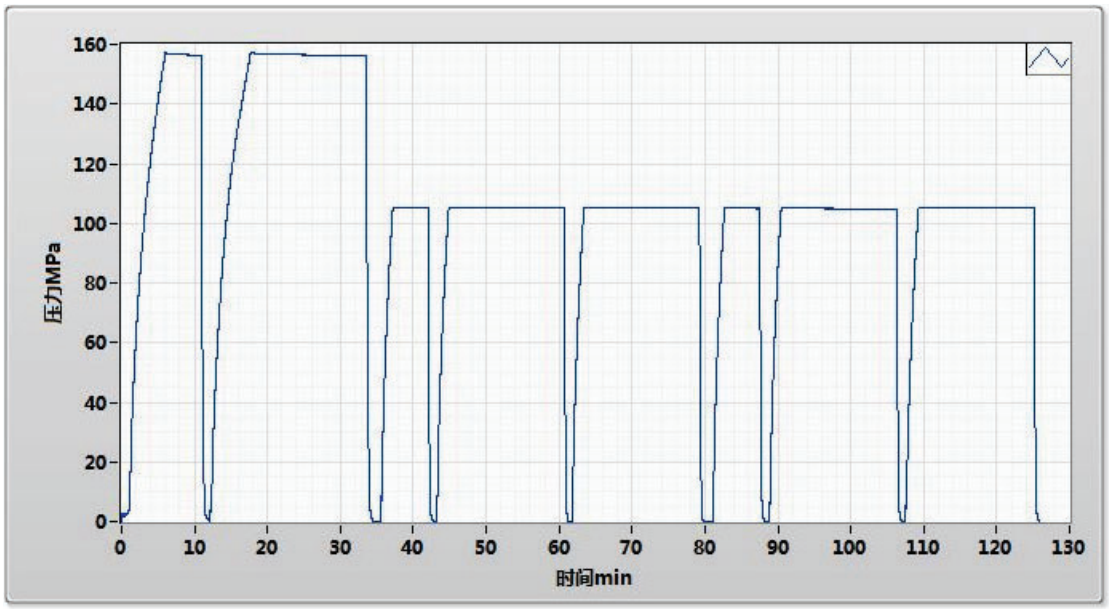
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP064F034	7-1/16" 15000Psi	API 6A　21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.87	156.30	4.0	0.57
2	156.99	156.22	15.0	0.77
3	105.29	105.23	4.0	0.06
4	105.20	105.00	15.0	0.20
5	105.24	105.02	15.0	0.21
6	105.11	104.96	4.0	0.15
7	105.14	104.83	15.0	0.30
8	105.26	105.02	15.0	0.24



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei　Ma	Xin Zheng	Zhicheng Feng	2023.03.29

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

REPORT INDEX

Purchase Order: 1437

Quantity: 1EA

Shipment No.: Crate# AP064F036

Shipment Date: April，2023

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
2	Metallurgical Test Certificate	Page - 3
2.1	Mechanical Testing	Page - 3
2.2	Chemical Testing	Page -3
2.3	Heat Treatment	Page - 3
3	Hardness Test	Page - 4-12
4	Ultrasonic Testing	Page - 13-17
5	Magnetic Particle Inspection Report	Page - 18-26
6	Hydrostatic Test	Page - 27-28

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1437, DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE-0.5 CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: 1437
SERIAL NO.: AP064F036
PART NO.: PFFY105/180-00
QANTITY: 1
INSPECTION STANDARD: API Spec 6A 21st EE-0.5, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME:

(STAMP)

INSPECTOR:Zhicheng Feng

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: April，2023

Customer: _____

P.O. Number: **1437**

安澜科技（江苏）股份有限公司

No.： AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Date:April，2023

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	1437	HYDRAULIC GATE VALVE	PFFY105/180-00	AP064F036	1	7-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
PFFY105/180-00	BODY	TX22-05907	RD-03-13	AISI 4130 75K,Per ASTM A29	1	AP064025	Forging	860	6.0H	WATER	27	39	670	8.0H	AIR	/	/	/	
	UPPER BONNET	TX22-05906	RD-03-03	AISI 4130 75K,Per ASTM A29	1	AP064098	Forging	860	6.0H	WATER	26	40	670	8.5H	AIR	/	/	/	
	LOWER BONNET	TX22-05907	RD-02-34	AISI 4130 75K,Per ASTM A29	1	AS001021	Forging	860	6.0H	WATER	26	39	670	11.0H	AIR	/	/	/	
	STEM	YX2212-2116	HY230227-1	PH17-4 105K,Per ASTM A564/564M	1	AS007084	Forging	1030	3.0H	WATER	17	20	630	4.5H	AIR	630	4.5H	AIR	
	BALANCE STEM	YX2301-1601	HY230211-4	PH17-4 105K,Per ASTM A564/564M	1	AS007091	Forging	1030	3.5H	WATER	14	17	630	5.0H	AIR	630	5.2H	AIR	
	GATE	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	1	AP064600	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	
	BODY BUSHING	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	2	AP064535 AP064542	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	

Chemical Analysis (wt, %)															Physical Properties								
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
TX22-05907	RD-03-13	0.30	0.66	0.26	0.007	0.003	1.02	0.20	0.201	0.005	/	/	0.02	/	/	8"x8"x10"	QTC	682	569	54.0	58.0	66/63/58	218HBW	JBW-300B/ WDW-300
TX22-05906	RD-03-03	0.31	0.67	0.26	0.009	0.003	1.04	0.20	0.217	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	678	558	55.0	51.0	62/60/55	220HBW	JBW-300B/ WDW-300
TX22-05907	RD-02-34	0.30	0.66	0.26	0.007	0.003	1.02	0.20	0.201	0.005	/	/	0.02	/	/	8"x8"x10"	QTC	676	545	43.0	50.0	59/56/55	221HBW	JBW-300B/ WDW-300
YX2212-2116	HY230227-1	0.024	0.55	0.36	0.032	0.002	15.66	4.08	/	/	/	/	3.62	0.235	/	Φ80x200	QTC	1022	927	21.3	58.5	36/49/47	31HRC	JBW-300B/ WDW-300
YX2301-1601	HY230211-4	0.026	0.56	0.41	0.032	0.001	15.70	4.08	/	/	/	/	3.63	0.240	/	Φ80x200	QTC	1018	933	21.2	57.5	55/59/40	31HRC	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase order and have been found to be satisfactory.

The information in this report is true and correct to our knowledge.

Xin Zheng

NAME of QA Manager, for and on the authority of COMPANY NAME

安澜科技（江苏）股份有限公司

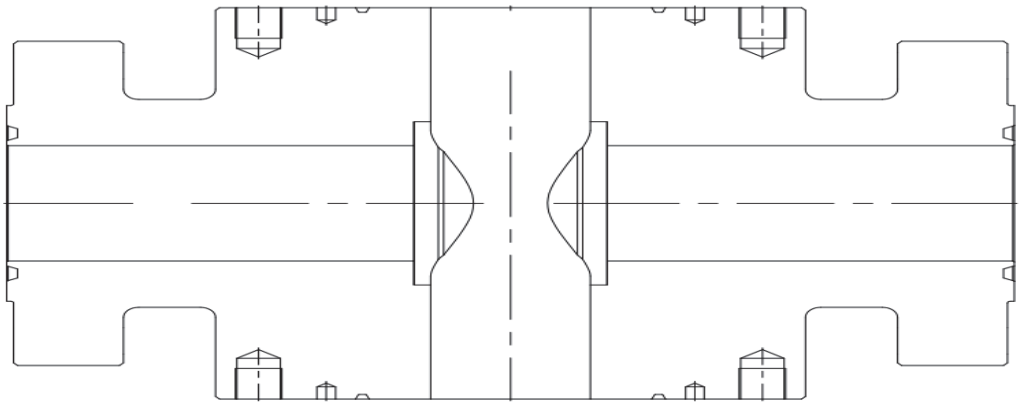
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0329-011
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064025	RD-03-13	209HBW/212HBW 218HBW/212HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

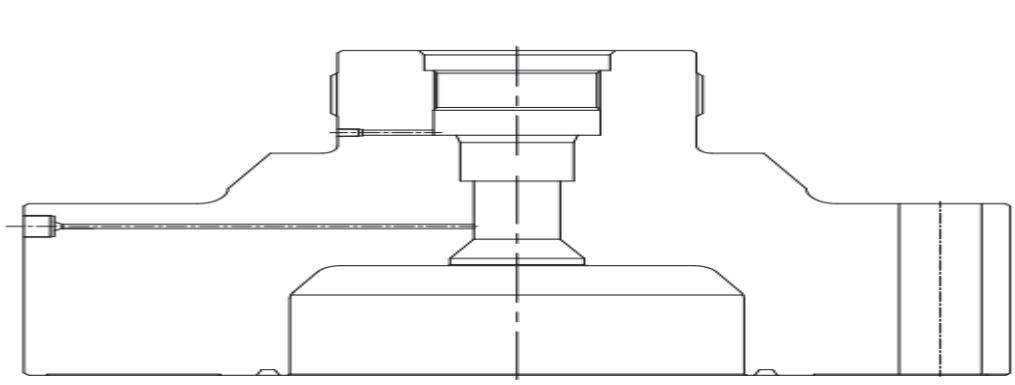
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0326-004
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064098	RD-03-03	217HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of tungsten ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

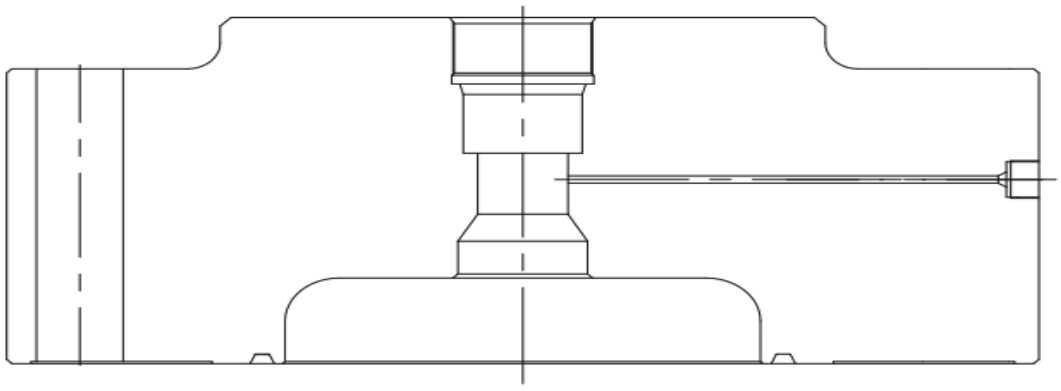
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0317-004
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS001021	RD-02-34	229HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

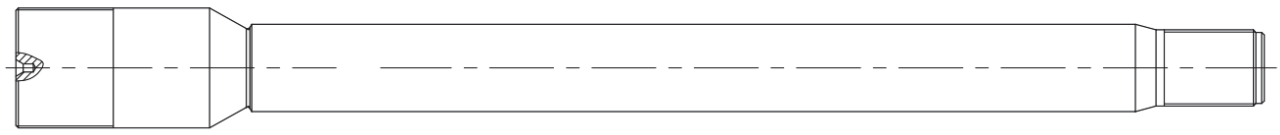
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074
Part No.:	X-182716-01	Material:	PH17-4 105K	Coating:	/
Description:	7-1/16"15000psi　Stem			Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007084	HY230227-1	30HRC				

Sketch:



Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

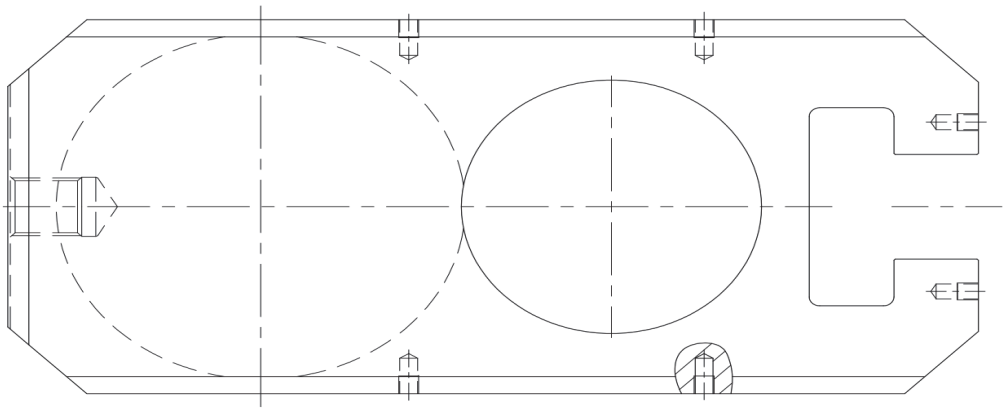
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074
Part No.:	X-182589-01	Material:	AISI 410 75K	Coating:	/
Description:	7-1/16"15000psi　Gate			Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064600	HC2302005-01	228HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

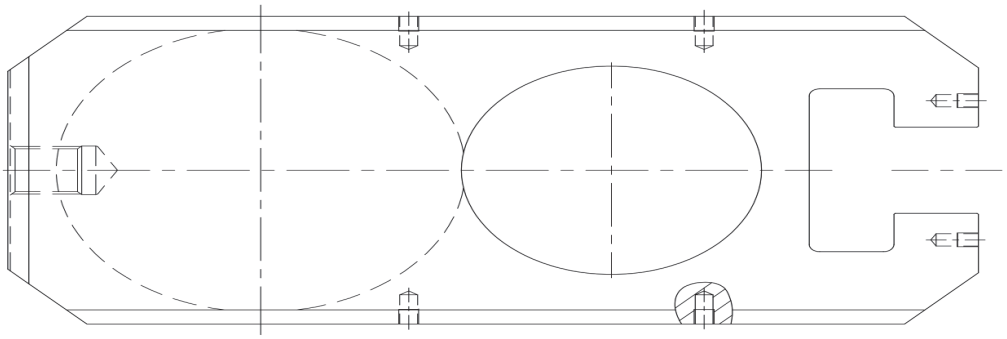
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230303-03
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064600	HC2302005-01	1197HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

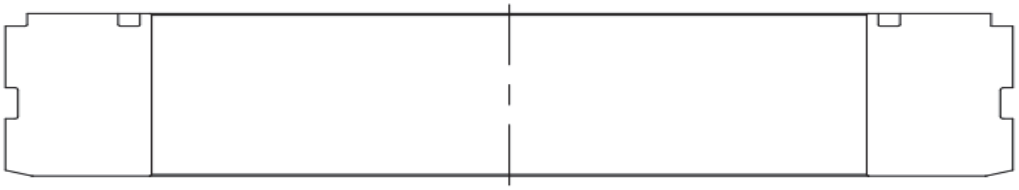
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230303-02
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064535	HC2302005-01	216HBW				
2	AP064542	HC2302005-01	213HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

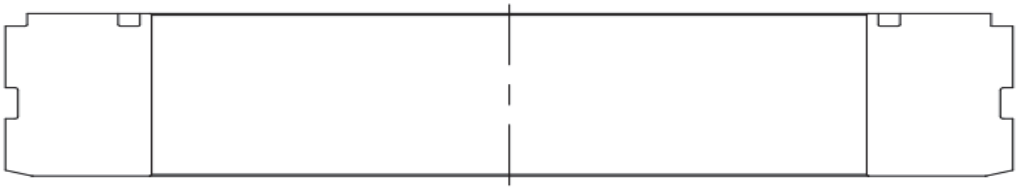
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230303-04
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064535	HC2302005-01	1197HV				
2	AP064542	HC2302005-01	1171HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HS-0321-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi　Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007091	HY230211-4	30HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0319-003
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064025	RD-03-13	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block Φ6.4 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB Φ6.4DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:	[redacted]		Customer PO#:	[redacted]		Date:	[redacted]
Drawing #:	[redacted]	Specification:	[redacted]	API Monogram:	[redacted]	Report #:	[redacted]
Part No.:	[redacted]	Material:	[redacted]			Coating:	[redacted]
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064098	RD-03-03	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0309-002
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS001021	RD-02-34	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0312-001
Part No.:	X-182716-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007084	HY230227-1	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0315-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007091	HY230211-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0329-004
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Body					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3100A 2800A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3310Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064025	RD-03-13	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0326-002
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064098	RD-03-03	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

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ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0317-002
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS001021	RD-02-34	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0315-001
Part No.:	X-182716-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi	Stem				Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007084	HY230227-1	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2303-Q02
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Gate					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		1600A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064600	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2303-H02
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Gate					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064600	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2303-Q03
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3200A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064535	HC2302005-01	Acceptable				
2	AP064542	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2303-H03
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Test Method:	Type II Method C	Acceptance Criteria:		API 6A 21st/PSL3	Penetrate Type:		DPT-5
Remover Type:	DPT-5	Developer Type:		DPT-5	Light Intensity:		≥1076Lx
Stage:	Machined	Penetrate Time:		10min	Develop Time:		10min

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064535	HC2302005-01	Acceptable				
2	AP064542	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0321-002
Part No.:	X-182591-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007091	HY230211-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP064F036
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A 21st	1	OK
Seat	15000psi	API 6A 21st	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	AP064025	RD-03-13	OK	OK					

Drift Test：

Diameter Φ 179.7 mm drift test gauge can freely pass through the through hole of the valve.

Inspection Coverage:

Per Specification & Requirements: API 6A 21st

		Approved By:	Examined By:
Judgments:	[V] Conforms	Xin Zheng	Yifei Ma
	[ ] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

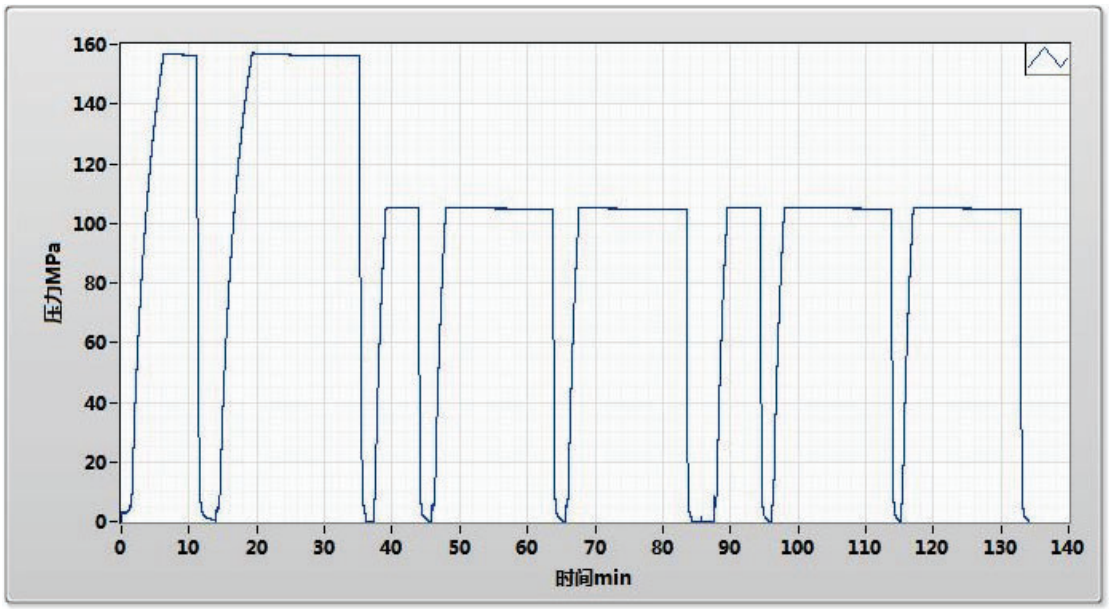
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP064F036	7-1/16" 15000Psi	API 6A 21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.82	156.30	4.0	0.52
2	156.94	156.13	15.0	0.81
3	105.20	105.12	4.0	0.08
4	105.16	104.90	15.0	0.26
5	105.10	104.83	15.0	0.27
6	105.25	105.05	4.0	0.21
7	105.26	104.90	15.0	0.37
8	105.15	104.88	15.0	0.27



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2023.03.29

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

REPORT INDEX

Purchase Order: 1437

Quantity: 1EA

Shipment No.: Crate# AP064F039

Shipment Date: April，2023

Activity No.	Characteristics	Reference Page
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2	Metallurgical Test Certificate	Page - 3
2.1	Mechanical Testing	Page - 3
2.2	Chemical Testing	Page -3
2.3	Heat Treatment	Page - 3
3	Hardness Test	Page - 4-12
4	Ultrasonic Testing	Page - 13-17
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安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1437, DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE-0.5 CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: 1437
SERIAL NO.: AP064F039
PART NO.: PFFY105/180-00
QANTITY: 1
INSPECTION STANDARD: API Spec 6A 21st EE-0.5, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME:

(STAMP)

INSPECTOR:Zhicheng Feng

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: April，2023

Customer: _____

P.O. Number: **1437**

安澜科技（江苏）股份有限公司

No.： AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Date:April，2023

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	1437	HYDRAULIC GATE VALVE	PFFY105/180-00	AP064F039	1	7-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
PFFY105/180-00	BODY	TX22-05907	RD-03-13	AISI 4130 75K,Per ASTM A29	1	AP064024	Forging	860	6.0H	WATER	27	39	670	8.0H	AIR	/	/	/	
	UPPER BONNET	TX22-05906	RD-02-46	AISI 4130 75K,Per ASTM A29	1	AP064084	Forging	860	5.5H	WATER	27	40	670	8.0H	AIR	/	/	/	
	LOWER BONNET	22DV0368	RD-03-18	AISI 4130 75K,Per ASTM A29	1	AS007166	Forging	860	5.0H	WATER	26	39	690	7.0H	AIR	/	/	/	
	STEM	YX2211-1565	HY230222-4	PH17-4 105K,Per ASTM A564/564M	1	AP064347	Forging	1030	3.6H	WATER	15	17	630	5.3H	AIR	630	5.1H	AIR	
	BALANCE STEM	YX2301-1601	HY230211-4	PH17-4 105K,Per ASTM A564/564M	1	AS007096	Forging	1030	3.5H	WATER	14	17	630	5.0H	AIR	630	5.2H	AIR	
	GATE	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	1	AP064599	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	
	BODY BUSHING	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	2	AP064501 AS001066	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	

Chemical Analysis (wt, %)															Physical Properties								
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
TX22-05907	RD-03-13	0.30	0.66	0.26	0.007	0.003	1.02	0.20	0.201	0.005	/	/	0.02	/	/	8"x8"x10"	QTC	682	569	54.0	58.0	66/63/58	218HBW	JBW-300B/ WDW-300
TX22-05906	RD-02-46	0.31	0.67	0.26	0.009	0.003	1.04	0.20	0.217	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	678	546	37.0	55.0	64/61/56	222HBW	JBW-300B/ WDW-300
22DV0368	RD-03-18	0.316	0.732	0.301	0.008	0.004	1.08	0.25	0.216	0.007	/	/	0.091	/	/	8"x8"x10"	QTC	673	546	50.0	63.0	58/62/52	219HBW	JBW-300B/ WDW-300
YX2211-1565	HY230222-4	0.021	0.50	0.41	0.028	0.001	15.66	4.08	/	/	/	/	3.61	0.226	/	Φ80x200	QTC	1017	941	20.4	57.5	45/33/51	32HRC	JBW-300B/ WDW-300
YX2301-1601	HY230211-4	0.026	0.56	0.41	0.032	0.001	15.70	4.08	/	/	/	/	3.63	0.240	/	Φ80x200	QTC	1018	933	21.2	57.5	55/59/40	31HRC	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase order and have been found to be satisfactory.

The information in this report is true and correct to our knowledge.

Xin Zheng

NAME of QA Manager, for and on the authority of COMPANY NAME

安澜科技（江苏）股份有限公司

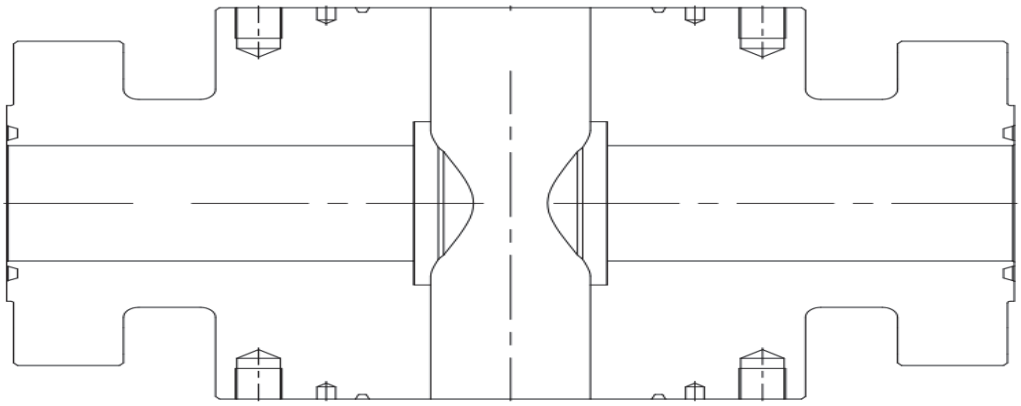
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0329-011
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064024	RD-03-13	217HBW/211HBW 211HBW/207HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

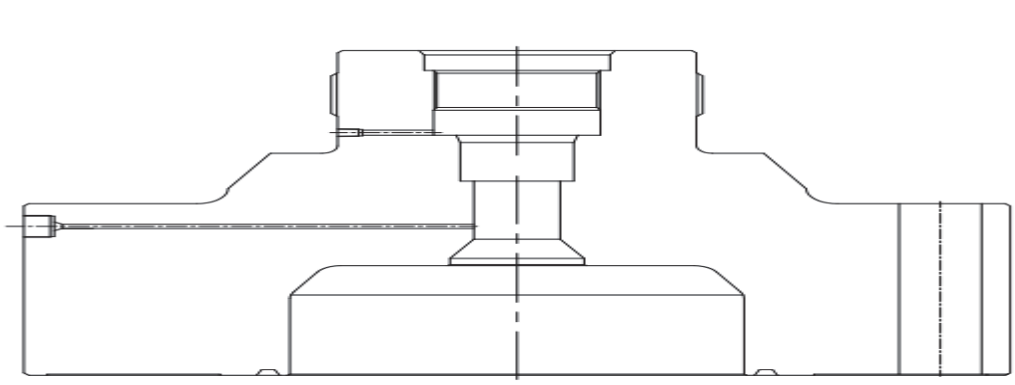
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0326-004
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064084	RD-02-46	215HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of tungsten ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

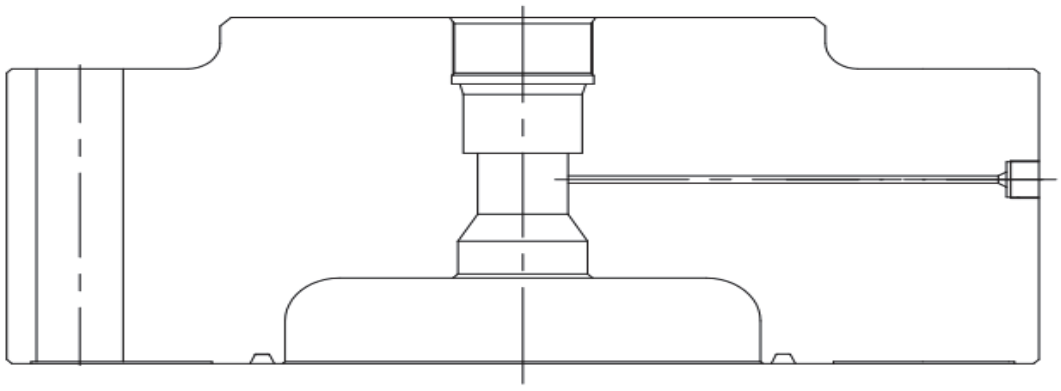
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0320-005
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007166	RD-03-18	226HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

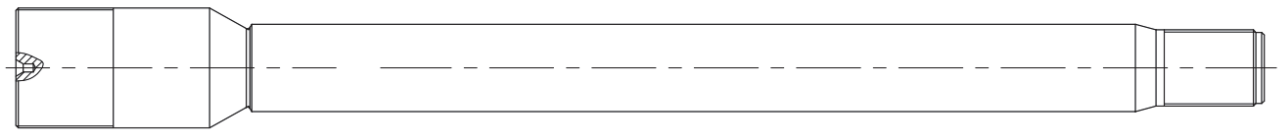
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074
Report #:	HS-0309-003				
Part No.:	X-182716-01	Material:	PH17-4 105K	Coating:	/
Description:	7-1/16"15000psi　Stem			Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064347	HY230222-4	29HRC				

Sketch:



Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

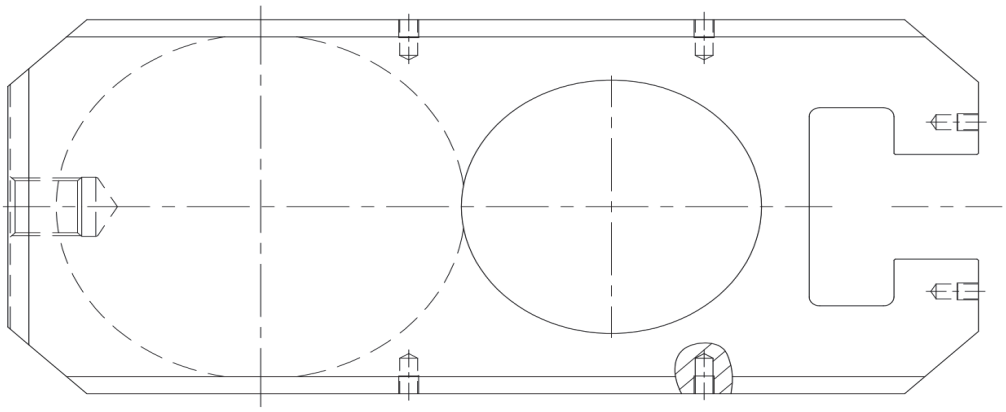
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230303-01
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064599	HC2302005-01	231HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

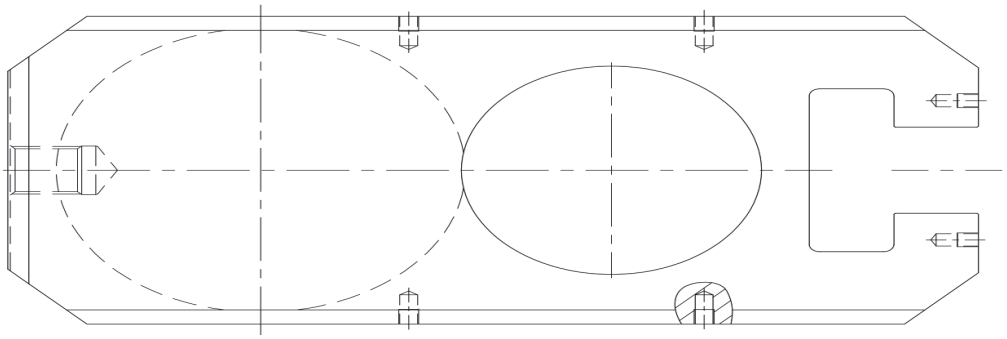
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230303-03
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064599	HC2302005-01	1197HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

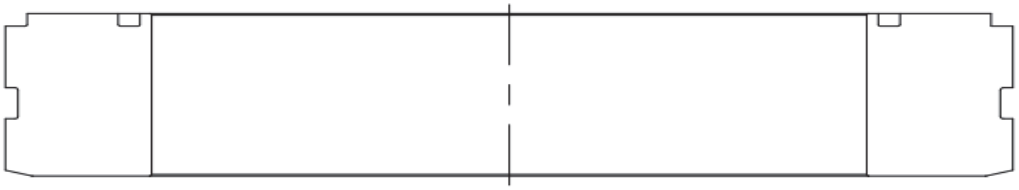
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230303-02
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064501	HC2302005-01	224HBW				
2	AS001066	HC2302005-01	230HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

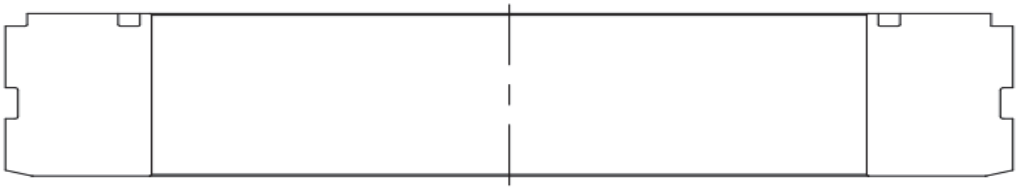
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230303-04
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064501	HC2302005-01	1171HV				
2	AS001066	HC2302005-01	1346HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HS-0321-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi　Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007096	HY230211-4	31HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0319-003
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064024	RD-03-13	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block Φ6.4 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB Φ6.4DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:		Specification:		API Monogram:		Report #:	
Part No.:		Material:				Coating:	
Description:	7-1/16"15000psi　Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064084	RD-02-46	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST.　HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0310-001
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007166	RD-03-18	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0302-001
Part No.:	X-182716-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064347	HY230222-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0315-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007096	HY230211-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0329-004
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3100A 2800A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3310Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064024	RD-03-13	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0326-002
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064084	RD-02-46	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0320-001
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007166	RD-03-18	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0308-001
Part No.:	X-182716-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi	Stem				Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064347	HY230222-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2303-Q02
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Gate					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		1600A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064599	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2303-H02
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Gate					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064599	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2303-Q03
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3200A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064501	HC2302005-01	Acceptable				
2	AS001066	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2303-H03
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064501	HC2302005-01	Acceptable				
2	AS001066	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0321-002
Part No.:	X-182591-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007096	HY230211-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP064F039
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A 21st	1	OK
Seat	15000psi	API 6A 21st	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	AP064024	RD-03-13	OK	OK					

Drift Test：

Diameter Φ 179.7 mm drift test gauge can freely pass through the through hole of the valve.

Inspection Coverage:

Per Specification & Requirements: API 6A 21st

		Approved By:	Examined By:
Judgments:	[V] Conforms	Xin Zheng	Yifei Ma
	[ ] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

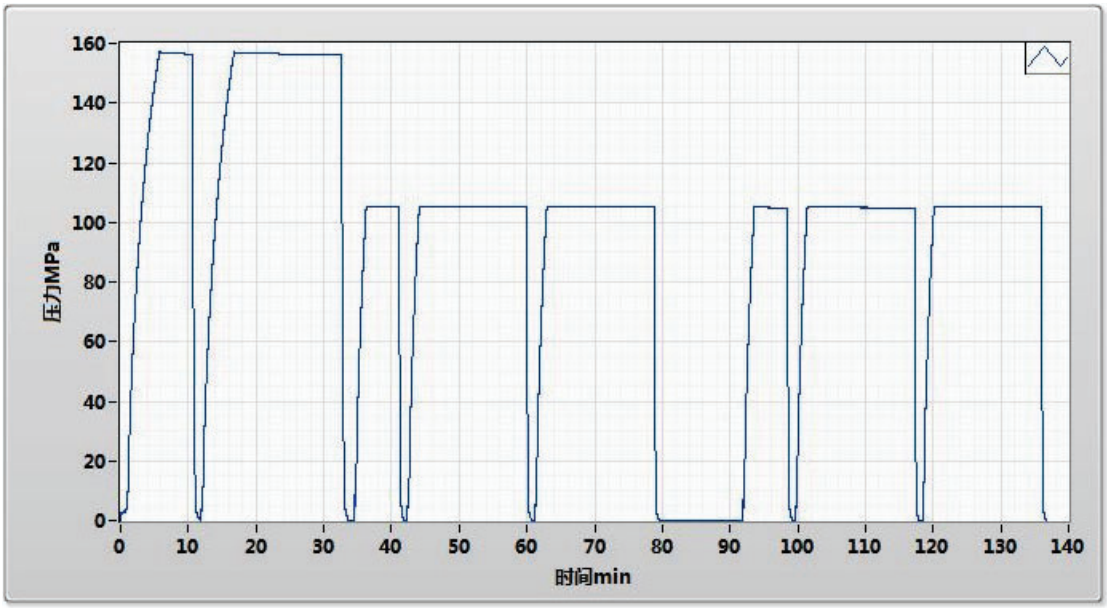
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP064F039	7-1/16" 15000Psi	API 6A　21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.90	156.41	4.0	0.49
2	156.93	156.22	15.0	0.72
3	105.33	105.28	4.0	0.05
4	105.28	105.07	15.0	0.21
5	105.26	105.03	15.0	0.23
6	105.08	104.82	4.0	0.26
7	105.23	104.85	15.0	0.38
8	105.29	105.03	15.0	0.26



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei　Ma	Xin Zheng	Zhicheng Feng	2023.03.29

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

REPORT INDEX

Purchase Order: 1437

Quantity: 1EA

Shipment No.: Crate# AP064F044

Shipment Date: April，2023

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
2	Metallurgical Test Certificate	Page - 3
2.1	Mechanical Testing	Page - 3
2.2	Chemical Testing	Page -3
2.3	Heat Treatment	Page - 3
3	Hardness Test	Page - 4-12
4	Ultrasonic Testing	Page - 13-17
5	Magnetic Particle Inspection Report	Page - 18-26
6	Hydrostatic Test	Page - 27-28

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1437, DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE-0.5 CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: 1437
SERIAL NO.: AP064F044
PART NO.: PFFY105/180-00
QANTITY: 1
INSPECTION STANDARD: API Spec 6A 21st EE-0.5, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME:

(STAMP)

INSPECTOR:Zhicheng Feng

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: April，2023

Customer: _____

P.O. Number: **1437**

安澜科技（江苏）股份有限公司

No.: AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Date:April，2023

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	1437	HYDRAULIC GATE VALVE	PFFY105/180-00	AP064F044	1	7-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
PFFY105/180-00	BODY	TX22-05907	RD-03-07	AISI 4130 75K,Per ASTM A29	1	AP064016	Forging	860	5.0H	WATER	28	41	680	8.0H	AIR	/	/	/	
	UPPER BONNET	TX22-05906	RD-02-46	AISI 4130 75K,Per ASTM A29	1	AP064086	Forging	860	5.5H	WATER	27	40	670	8.0H	AIR	/	/	/	
	LOWER BONNET	TX22-05906	HY230214-3	AISI 4130 75K,Per ASTM A29	1	AP064104	Forging	870	4.5H	WATER	16	19	680	6.5H	AIR	/	/	/	
	STEM	YX2211-1565	HY230222-4	PH17-4 105K,Per ASTM A564/564M	1	AP064332	Forging	1030	3.6H	WATER	15	17	630	5.3H	AIR	630	5.1H	AIR	
	BALANCE STEM	YX2301-1601	HY230211-4	PH17-4 105K,Per ASTM A564/564M	1	AS001038	Forging	1030	3.5H	WATER	14	17	630	5.0H	AIR	630	5.2H	AIR	
	GATE	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	1	AP064594	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	
	BODY BUSHING	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	2	AS001061 AS001067	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	

Chemical Analysis (wt, %)															Physical Properties								
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
TX22-05907	RD-03-07	0.30	0.66	0.26	0.007	0.003	1.02	0.20	0.201	0.005	/	/	0.02	/	/	8"x8"x10"	QTC	687	562	57.0	55.0	64/61/57	222HBW	JBW-300B/ WDW-300
TX22-05906	RD-02-46	0.31	0.67	0.26	0.009	0.003	1.04	0.20	0.217	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	678	546	37.0	55.0	64/61/56	222HBW	JBW-300B/ WDW-300
TX22-05906	HY230214-3	0.31	0.67	0.26	0.009	0.003	1.04	0.20	0.217	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	729	557	22.4	72.1	41/85/79	224HBW	JBW-300B/ WDW-300
YX2211-1565	HY230222-4	0.021	0.50	0.41	0.028	0.001	15.66	4.08	/	/	/	/	3.61	0.226	/	Φ80x200	QTC	1017	941	20.4	57.5	45/33/51	32HRC	JBW-300B/ WDW-300
YX2301-1601	HY230211-4	0.026	0.56	0.41	0.032	0.001	15.70	4.08	/	/	/	/	3.63	0.240	/	Φ80x200	QTC	1018	933	21.2	57.5	55/59/40	31HRC	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase order and have been found to be satisfactory.

The information in this report is true and correct to our knowledge.

Xin Zheng

NAME of QA Manager, for and on the authority of COMPANY NAME

安澜科技（江苏）股份有限公司

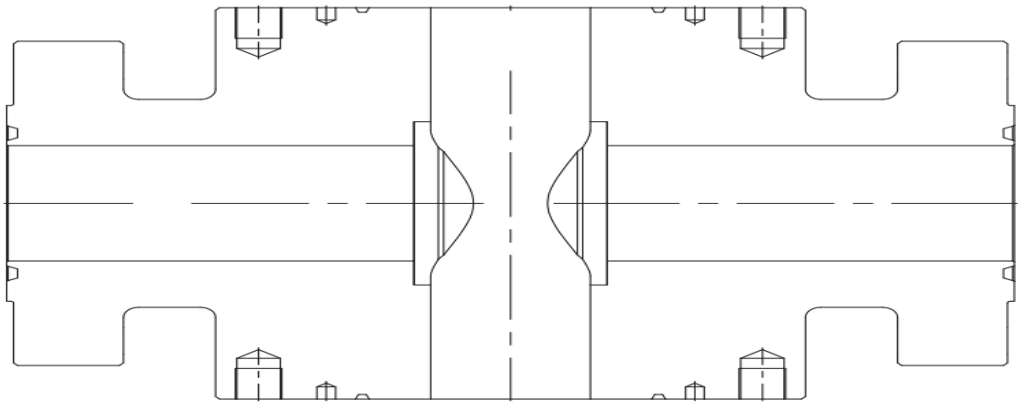
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0329-011
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064016	RD-03-07	217HBW/223HBW 207HBW/225HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

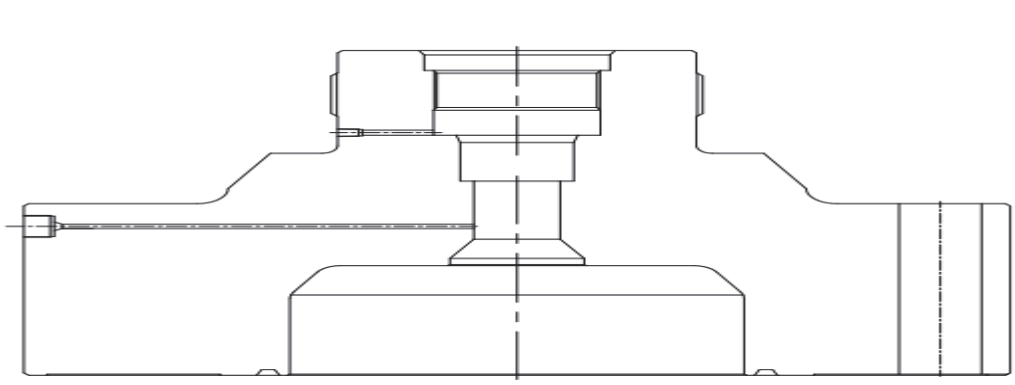
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0328-005
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064086	RD-02-46	215HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of tungsten ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

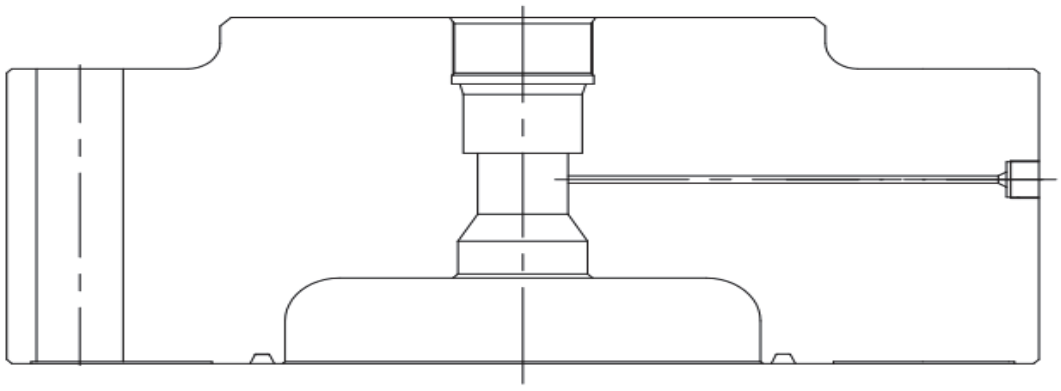
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0315-003
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064104	HY230214-3	222HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

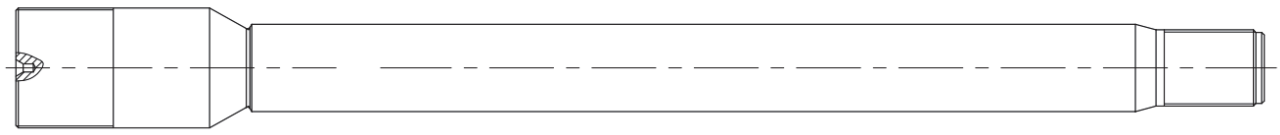
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074
Part No.:	X-182716-01	Material:	PH17-4 105K	Coating:	/
Description:	7-1/16"15000psi　Stem			Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064332	HY230222-4	29HRC				

Sketch:



Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

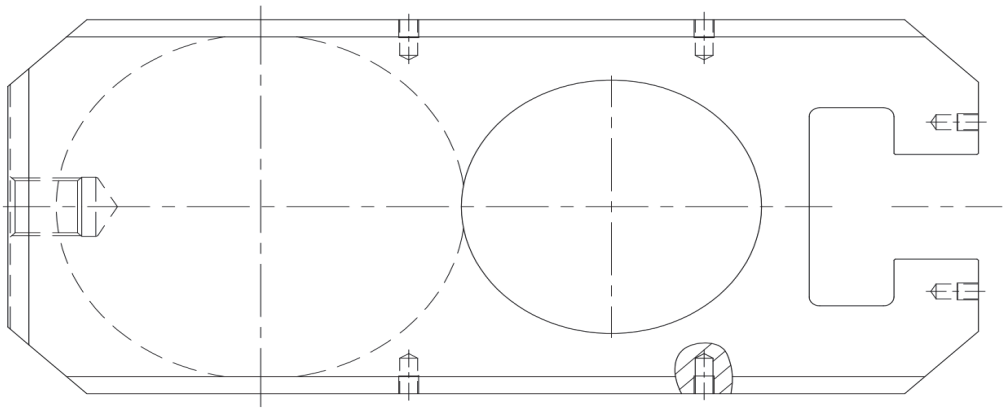
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230303-01
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064594	HC2302005-01	235HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

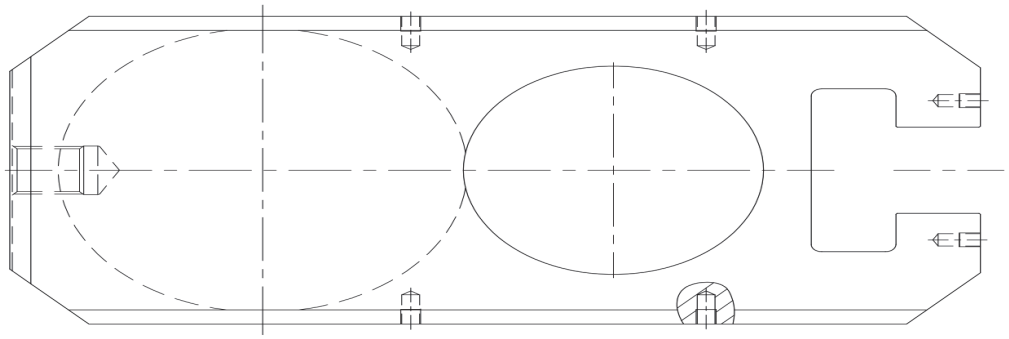
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230303-03
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064594	HC2302005-01	1197HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

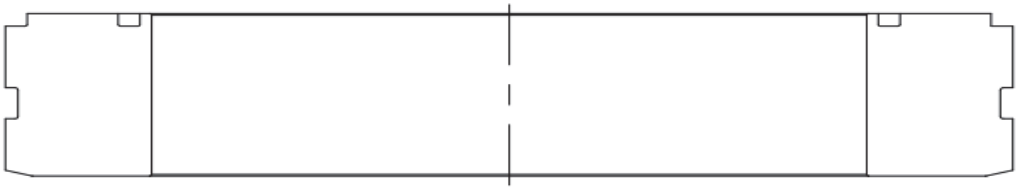
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230309-05
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS001061	HC2302005-01	222HBW				
2	AS001067	HC2302005-01	232HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

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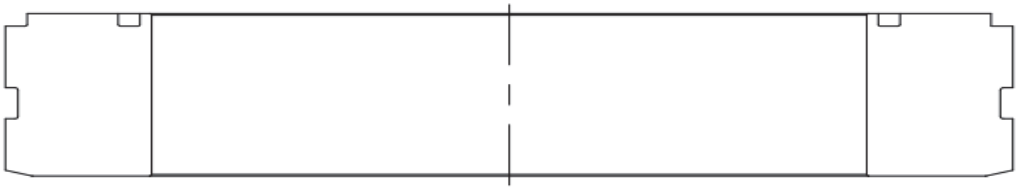
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230309-06
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS001061	HC2302005-01	1314HV				
2	AS001067	HC2302005-01	1346HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HS-0321-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi　Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS001038	HY230211-4	31HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0319-003
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064016	RD-03-07	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block Φ6.4 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB Φ6.4DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:	[redacted]		Customer PO#:	[redacted]		Date:	[redacted]
Drawing #:	[redacted]	Specification:	[redacted]	API Monogram:	[redacted]	Report #:	[redacted]
Part No.:	[redacted]	Material:	[redacted]			Coating:	[redacted]
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064086	RD-02-46	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.02
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0225-004
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064104	HY230214-3	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0302-001
Part No.:	X-182716-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064332	HY230222-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0316-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS001038	HY230211-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0329-004
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3100A 2800A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3310Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064016	RD-03-07	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0328-001
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064086	RD-02-46	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0311-004
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064104	HY230214-3	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0308-001
Part No.:	X-182716-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi	Stem				Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064332	HY230222-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2303-Q02
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Gate					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		1600A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064594	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2303-H02
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Gate					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064594	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2303-Q18
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3200A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS001061	HC2302005-01	Acceptable				
2	AS001067	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2303-H18
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS001061	HC2302005-01	Acceptable				
2	AS001067	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0320-001
Part No.:	X-182591-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS001038	HY230211-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP064F044
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A 21st	1	OK
Seat	15000psi	API 6A 21st	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	AP064016	RD-03-07	OK	OK					

Drift Test：

Diameter Φ 179.7 mm drift test gauge can freely pass through the through hole of the valve.

Inspection Coverage:

Per Specification & Requirements: API 6A 21st

		Approved By:	Examined By:
Judgments:	[V] Conforms	Xin Zheng	Yifei Ma
	[ ] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

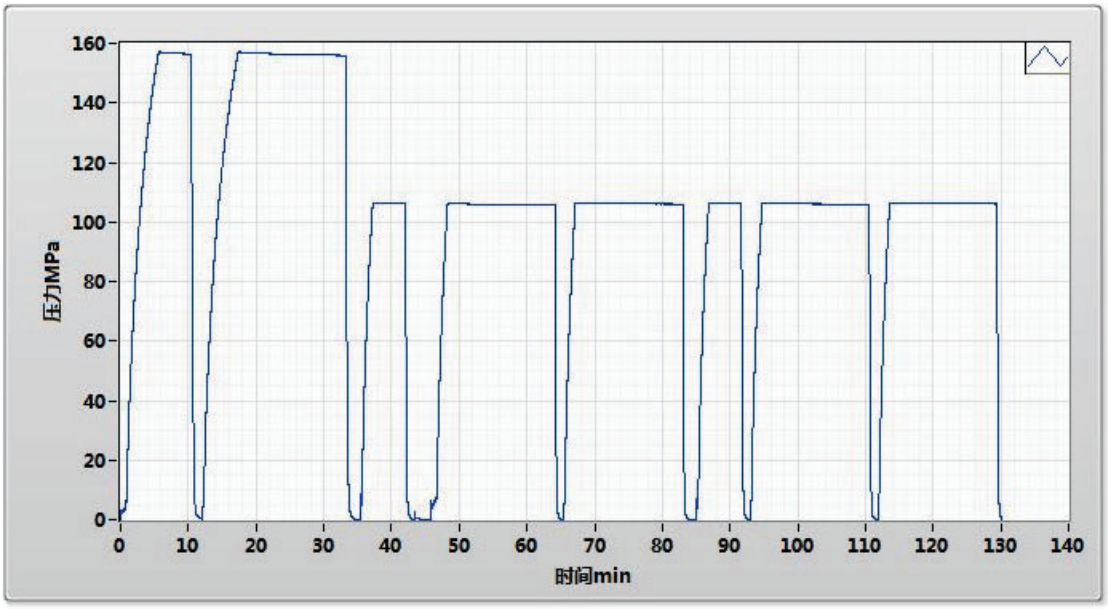
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP064F044	7-1/16" 15000Psi	API 6A　21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.92	156.39	4.0	0.53
2	156.97	155.91	15.0	1.06
3	106.29	106.22	4.0	0.08
4	106.17	105.75	15.0	0.42
5	106.29	106.01	15.0	0.27
6	106.24	106.06	4.0	0.18
7	106.27	105.93	15.0	0.33
8	106.30	106.04	15.0	0.26



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei　Ma	Xin Zheng	Zhicheng Feng	2023.04.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

REPORT INDEX

Purchase Order: 1437

Quantity: 1EA

Shipment No.: Crate# AP064F048

Shipment Date: April，2023

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
2	Metallurgical Test Certificate	Page - 3
2.1	Mechanical Testing	Page - 3
2.2	Chemical Testing	Page -3
2.3	Heat Treatment	Page - 3
3	Hardness Test	Page - 4-12
4	Ultrasonic Testing	Page - 13-17
5	Magnetic Particle Inspection Report	Page - 18-26
6	Hydrostatic Test	Page - 27-28

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1437, DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE-0.5 CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: 1437
SERIAL NO.: AP064F048
PART NO.: PFFY105/180-00
QANTITY: 1
INSPECTION STANDARD: API Spec 6A 21st EE-0.5, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME:

(STAMP)

INSPECTOR:Zhicheng Feng

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: April，2023

Customer: _____

P.O. Number: **1437**

安澜科技（江苏）股份有限公司

No.： AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Date:April，2023

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	1437	HYDRAULIC GATE VALVE	PFFY105/180-00	AP064F048	1	7-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
PFFY105/180-00	BODY	22DV0340	HY230327-3	AISI 4130 75K,Per ASTM A29	1	AS007152	Forging	870	5.5H	WATER	20	24	670	7.5H	AIR	/	/	/	
	UPPER BONNET	22VD0368	RD-03-18	AISI 4130 75K,Per ASTM A29	1	AS007013	Forging	860	5.0H	WATER	26	39	690	7.0H	AIR	/	/	/	
	LOWER BONNET	22DV0368	RD-03-18	AISI 4130 75K,Per ASTM A29	1	AS007168	Forging	860	5.0H	WATER	26	39	690	7.0H	AIR	/	/	/	
	STEM	YX2211-1565	HY230222-4	PH17-4 105K,Per ASTM A564/564M	1	AP064345	Forging	1030	3.6H	WATER	15	17	630	5.3H	AIR	630	5.1H	AIR	
	BALANCE STEM	YX2301-1601	HY230211-4	PH17-4 105K,Per ASTM A564/564M	1	AS007170	Forging	1030	3.5H	WATER	14	17	630	5.0H	AIR	630	5.2H	AIR	
	GATE	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	1	AS007135	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	
	BODY BUSHING	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	2	AS007126 AS007127	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	

Chemical Analysis (wt, %)															Physical Properties								
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
22DV0340	HY230327-3	0.31	0.69	0.31	0.005	0.004	1.04	0.23	0.19	0.006	/	/	0.06	/	/	8"x8"x10"	QTC	720	557	24.0	66.5	63/50/56	221HBW	JBW-300B/ WDW-300
22VD0368	RD-03-18	0.316	0.732	0.301	0.008	0.004	1.08	0.25	0.216	0.007	/	/	0.091	/	/	8"x8"x10"	QTC	677	544	54.0	60.0	62/65/56	222HBW	JBW-300B/ WDW-300
22DV0368	RD-03-18	0.316	0.732	0.301	0.008	0.004	1.08	0.25	0.216	0.007	/	/	0.091	/	/	8"x8"x10"	QTC	673	546	50.0	63.0	58/62/52	219HBW	JBW-300B/ WDW-300
YX2211-1565	HY230222-4	0.021	0.50	0.41	0.028	0.001	15.66	4.08	/	/	/	/	3.61	0.226	/	Φ80x200	QTC	1017	941	20.4	57.5	45/33/51	32HRC	JBW-300B/ WDW-300
YX2301-1601	HY230211-4	0.026	0.56	0.41	0.032	0.001	15.70	4.08	/	/	/	/	3.63	0.240	/	Φ80x200	QTC	1018	933	21.2	57.5	55/59/40	31HRC	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase order and have been found to be satisfactory.

The information in this report is true and correct to our knowledge.

Xin Zheng

NAME of QA Manager, for and on the authority of COMPANY NAME

安澜科技（江苏）股份有限公司

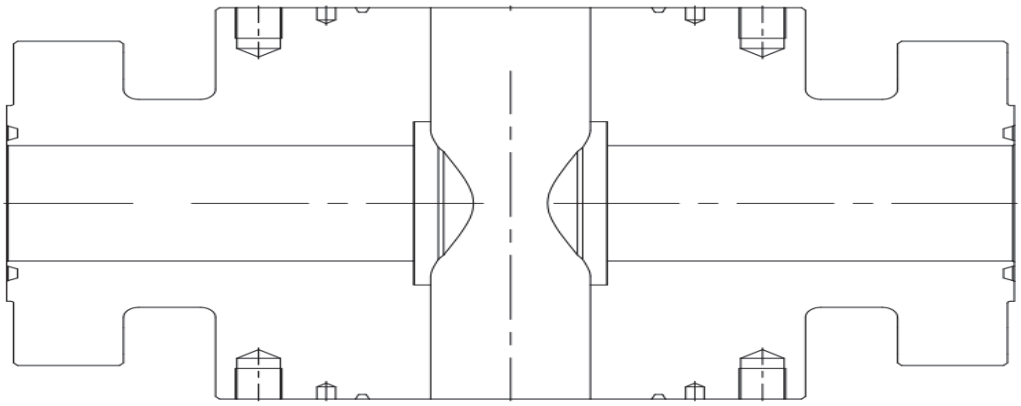
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0403-001
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007152	HY230327-3	223HBW/222HBW 222HBW/217HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

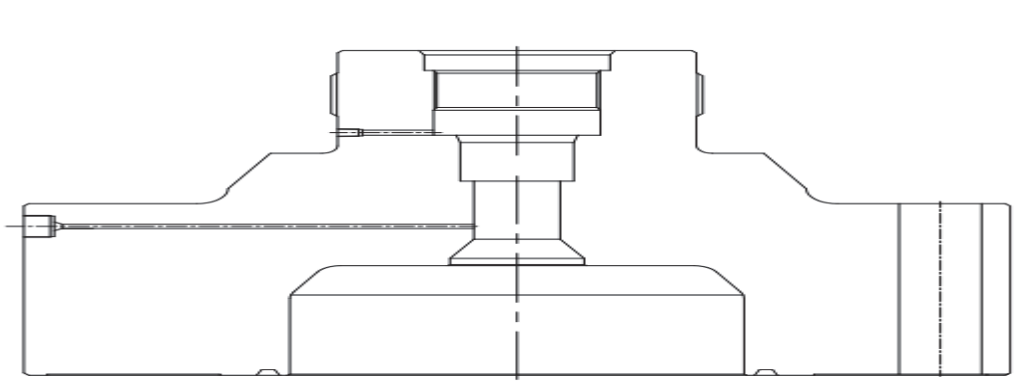
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0328-005
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007013	RD-03-18	217HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of tungsten ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

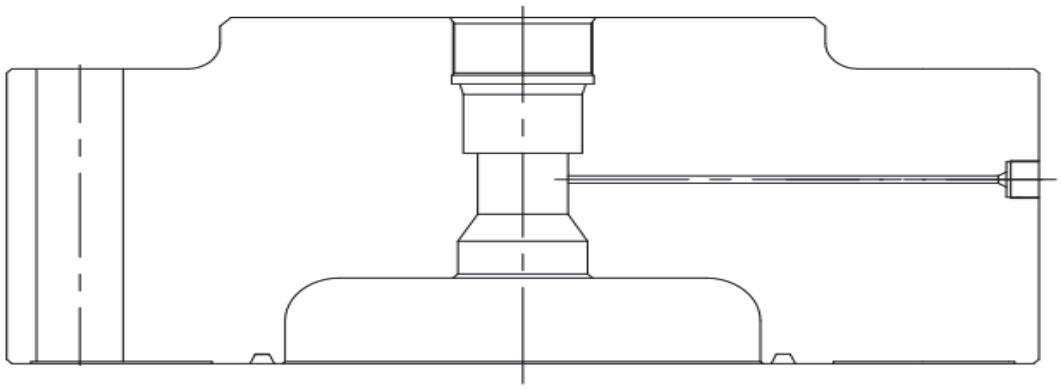
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0320-005
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007168	RD-03-18	229HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of tungsten ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

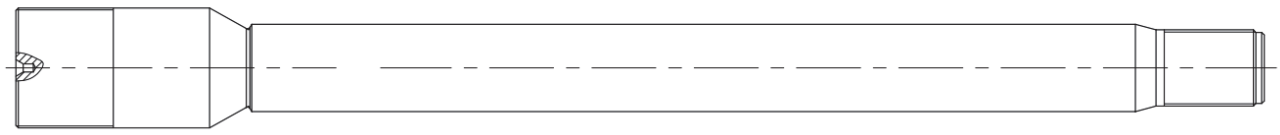
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074
Part No.:	X-182716-01	Material:	PH17-4 105K	Coating:	/
Description:	7-1/16"15000psi　Stem			Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064345	HY230222-4	31HRC				

Sketch:



Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

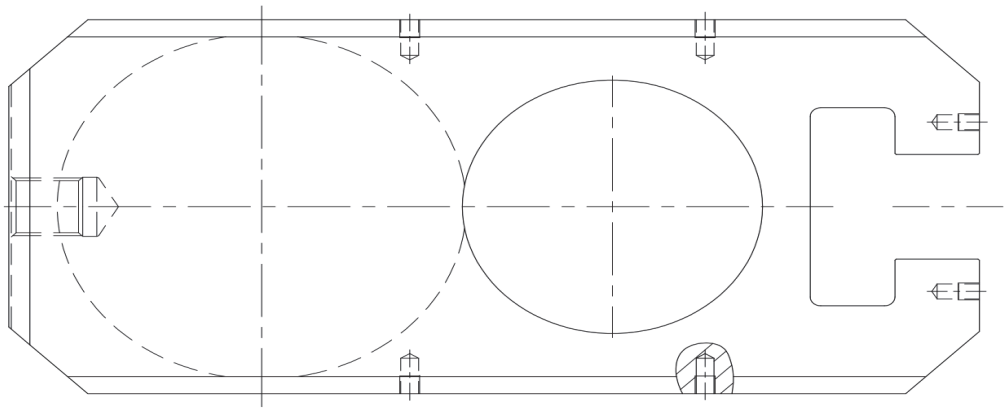
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230406-01
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007135	HC2302005-01	235HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

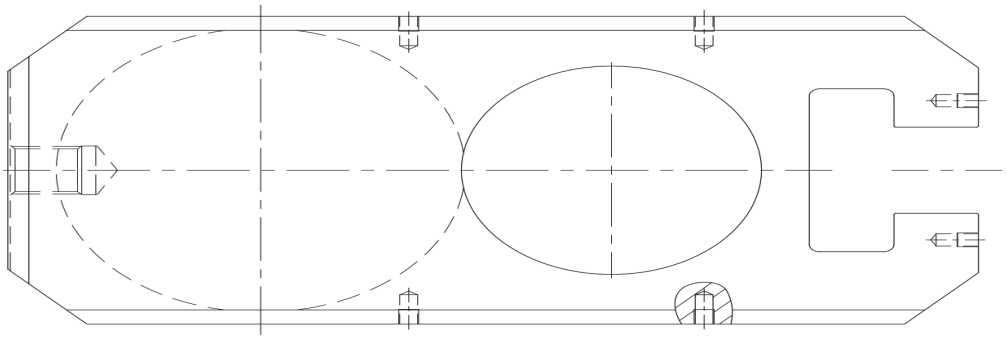
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230406-03
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007135	HC2302005-01	1171HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

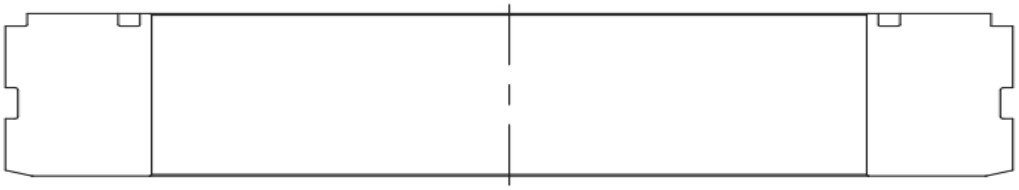
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230406-02
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007126	HC2302005-01	210HBW				
2	AS007127	HC2302005-01	217HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

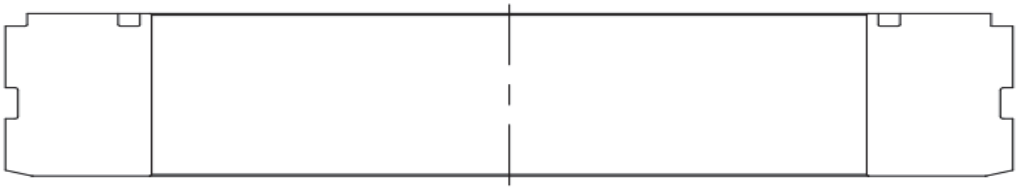
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230406-04
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007126	HC2302005-01	1171HV				
2	AS007127	HC2302005-01	1171HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HS-0321-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi　Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007170	HY230211-4	29HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0329-001
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007152	HY230327-3	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block Φ6.4 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB Φ6.4DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:	[redacted]		Customer PO#:	[redacted]		Date:	[redacted]
Drawing #:	[redacted]	Specification:	[redacted]	API Monogram:	[redacted]	Report #:	[redacted]
Part No.:	[redacted]	Material:	[redacted]			Coating:	[redacted]
Description:	7-1/16"15000psi　Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007013	RD-03-18	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST.　HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0310-001
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007168	RD-03-18	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0302-001
Part No.:	X-182716-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064345	HY230222-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0315-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007170	HY230211-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0402-001
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3100A 2800A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3310Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007152	HY230327-3	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0328-002
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007013	RD-03-18	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0320-001
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007168	RD-03-18	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0308-001
Part No.:	X-182716-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi	Stem				Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064345	HY230222-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2304-Q11
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Gate					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		1600A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007135	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2304-H11
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Gate					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007135	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2304-Q12
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3200A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007126	HC2302005-01	Acceptable				
2	AS007127	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2304-H12
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Test Method:	Type II Method C	Acceptance Criteria:		API 6A 21st/PSL3	Penetrate Type:		DPT-5
Remover Type:	DPT-5	Developer Type:		DPT-5	Light Intensity:		≥1076Lx
Stage:	Machined	Penetrate Time:		10min	Develop Time:		10min

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007126	HC2302005-01	Acceptable				
2	AS007127	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0321-002
Part No.:	X-182591-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007170	HY230211-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP064F048
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A 21st	1	OK
Seat	15000psi	API 6A 21st	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	AS007152	HY230327-3	OK	OK					

Drift Test：

Diameter Φ 179.7 mm drift test gauge can freely pass through the through hole of the valve.

Inspection Coverage:

Per Specification & Requirements: API 6A 21st

		Approved By:	Examined By:
Judgments:	[V] Conforms	Xin Zheng	Yifei Ma
	[ ] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

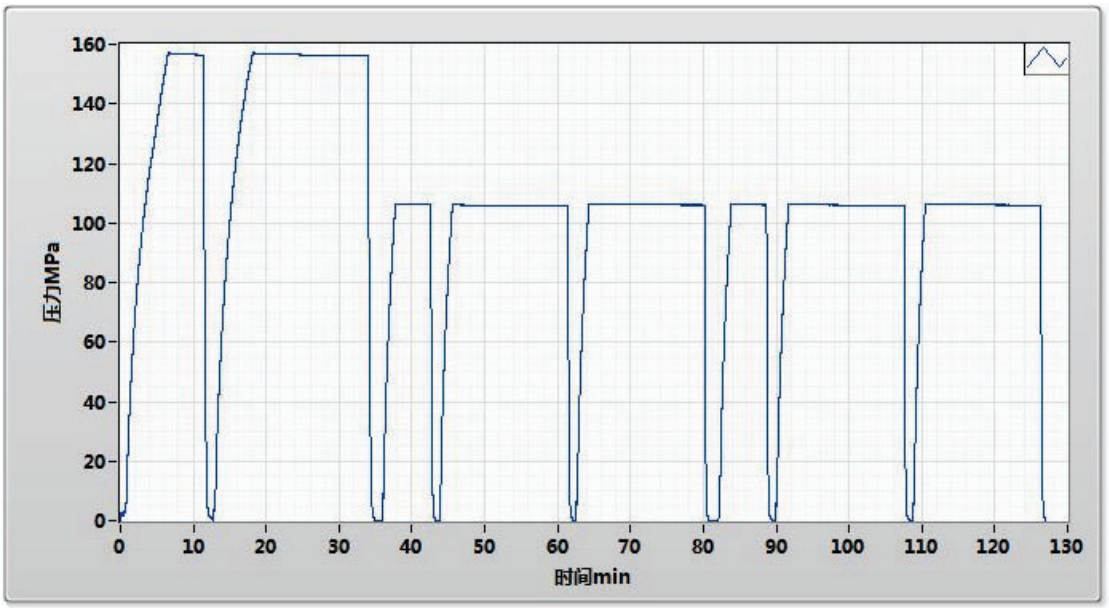
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP064F048	7-1/16" 15000Psi	API 6A　21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.93	156.41	4.0	0.52
2	156.95	156.18	15.0	0.77
3	106.25	106.19	4.0	0.06
4	106.05	105.85	15.0	0.21
5	106.23	106.03	15.0	0.21
6	106.21	106.03	4.0	0.18
7	106.22	105.90	15.0	0.32
8	106.24	105.98	15.0	0.25



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei　Ma	Xin Zheng	Zhicheng Feng	2023.04.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

REPORT INDEX

Purchase Order: 1437

Quantity: 1EA

Shipment No.: Crate# AP064F049

Shipment Date: April，2023

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2	Metallurgical Test Certificate	Page - 3
2.1	Mechanical Testing	Page - 3
2.2	Chemical Testing	Page -3
2.3	Heat Treatment	Page - 3
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安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1437, DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE-0.5 CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: 1437
SERIAL NO.: AP064F049
PART NO.: PFFY105/180-00
QANTITY: 1
INSPECTION STANDARD: API Spec 6A 21st EE-0.5, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME:

(STAMP)

INSPECTOR:Zhicheng Feng

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: April，2023

Customer: _____

P.O. Number: **1437**

安澜科技（江苏）股份有限公司

No.： AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Date:April，2023

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	1437	HYDRAULIC GATE VALVE	PFFY105/180-00	AP064F049	1	7-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
PFFY105/180-00	BODY	TX22-05909	HY230325-1	AISI 4130 75K,Per ASTM A29	1	AS001007	Forging	870	5.5H	WATER	18	22	665	7.5H	AIR	/	/	/	
	UPPER BONNET	22VD0368	RD-03-18	AISI 4130 75K,Per ASTM A29	1	AS007022	Forging	860	5.0H	WATER	26	39	690	7.0H	AIR	/	/	/	
	LOWER BONNET	22DV0368	RD-03-18	AISI 4130 75K,Per ASTM A29	1	AS007165	Forging	860	5.0H	WATER	26	39	690	7.0H	AIR	/	/	/	
	STEM	YX2211-1565	HY230222-4	PH17-4 105K,Per ASTM A564/564M	1	AP064344	Forging	1030	3.6H	WATER	15	17	630	5.3H	AIR	630	5.1H	AIR	
	BALANCE STEM	YX2301-1601	HY230211-4	PH17-4 105K,Per ASTM A564/564M	1	AS007093	Forging	1030	3.5H	WATER	14	17	630	5.0H	AIR	630	5.2H	AIR	
	GATE	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	1	AS007136	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	
	BODY BUSHING	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	2	AS007109 AS007124	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	

Chemical Analysis (wt, %)															Physical Properties								
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
TX22-05909	HY230325-1	0.31	0.66	0.29	0.008	0.004	1.06	0.21	0.211	0.006	/	/	0.03	/	/	8"x8"x10"	QTC	707	540	23.2	65.8	44/59/50	221HBW	JBW-300B/ WDW-300
22VD0368	RD-03-18	0.316	0.732	0.301	0.008	0.004	1.08	0.25	0.216	0.007	/	/	0.091	/	/	8"x8"x10"	QTC	677	544	54.0	60.0	62/65/56	222HBW	JBW-300B/ WDW-300
22DV0368	RD-03-18	0.316	0.732	0.301	0.008	0.004	1.08	0.25	0.216	0.007	/	/	0.091	/	/	8"x8"x10"	QTC	673	546	50.0	63.0	58/62/52	219HBW	JBW-300B/ WDW-300
YX2211-1565	HY230222-4	0.021	0.50	0.41	0.028	0.001	15.66	4.08	/	/	/	/	3.61	0.226	/	Φ80x200	QTC	1017	941	20.4	57.5	45/33/51	32HRC	JBW-300B/ WDW-300
YX2301-1601	HY230211-4	0.026	0.56	0.41	0.032	0.001	15.70	4.08	/	/	/	/	3.63	0.240	/	Φ80x200	QTC	1018	933	21.2	57.5	55/59/40	31HRC	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase order and have been found to be satisfactory.

The information in this report is true and correct to our knowledge.

Xin Zheng

NAME of QA Manager, for and on the authority of COMPANY NAME

安澜科技（江苏）股份有限公司

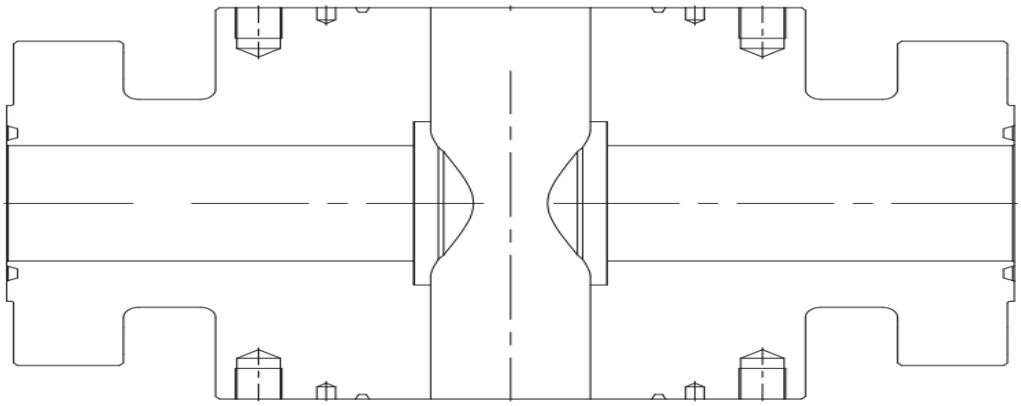
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0403-001
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS001007	HY230325-1	229HBW/212HBW 207HBW/211HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

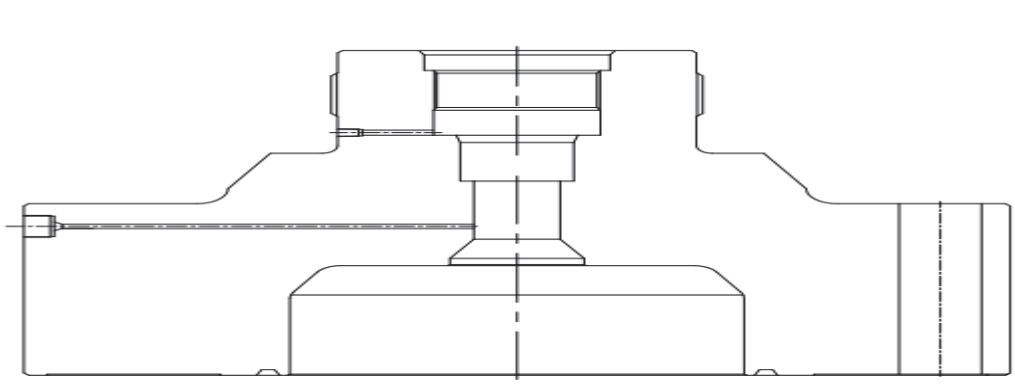
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0328-005
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007022	RD-03-18	215HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of tungsten ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

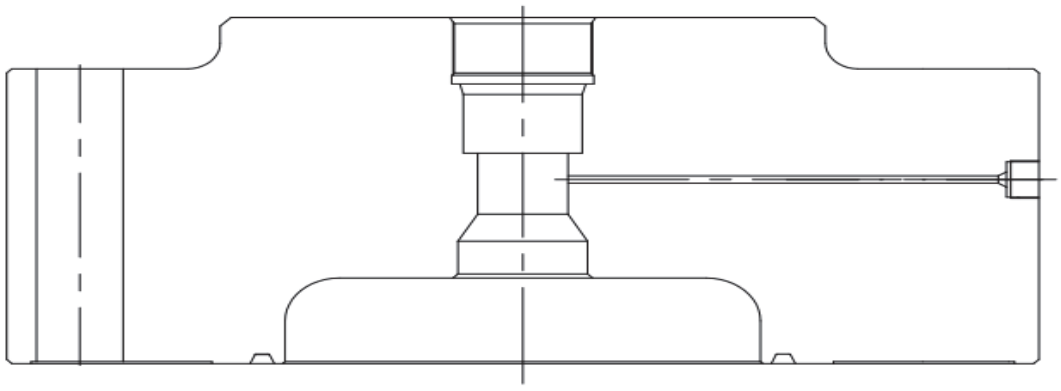
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0320-005
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007165	RD-03-18	216HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of tungsten ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

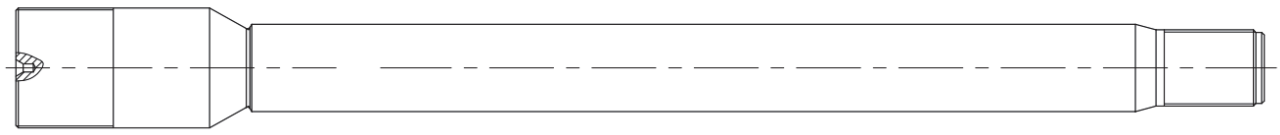
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HS-0309-003
Part No.:	X-182716-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi　Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064344	HY230222-4	31HRC				

Sketch:



Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

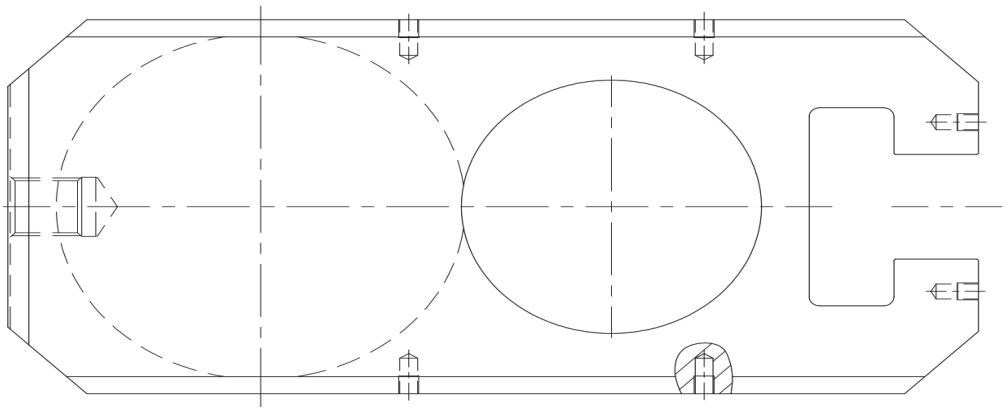
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230406-01
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007136	HC2302005-01	231HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

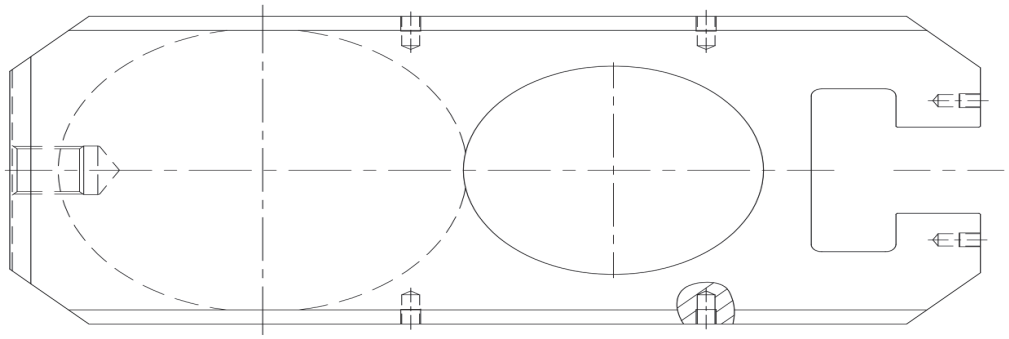
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230406-03
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007136	HC2302005-01	1197HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

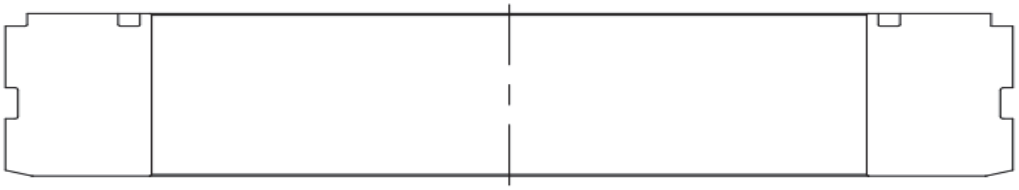
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230406-02
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007109	HC2302005-01	214HBW				
2	AS007124	HC2302005-01	219HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

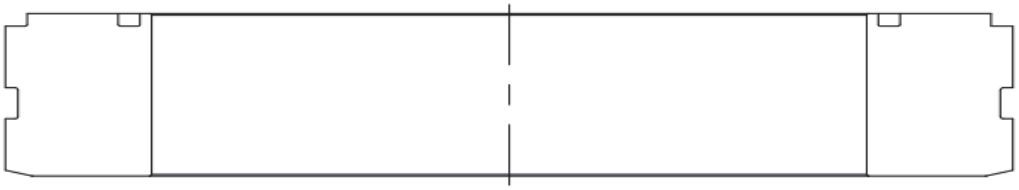
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230406-04
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007109	HC2302005-01	1197HV				
2	AS007124	HC2302005-01	1171HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HS-0321-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi　Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007093	HY230211-4	31HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0326-003
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS001007	HY230325-1	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block Φ6.4 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB Φ6.4DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:	[redacted]		Customer PO#:	[redacted]		Date:	[redacted]
Drawing #:	[redacted]	Specification:	[redacted]	API Monogram:	[redacted]	Report #:	[redacted]
Part No.:	[redacted]	Material:	[redacted]			Coating:	[redacted]
Description:	7-1/16"15000psi　Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007022	RD-03-18	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST.　HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0310-001
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007165	RD-03-18	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0302-001
Part No.:	X-182716-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064344	HY230222-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0315-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007093	HY230211-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0403-002
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Body					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3100A 2800A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3310Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS001007	HY230325-1	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0329-002
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007022	RD-03-18	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0320-001
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007165	RD-03-18	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0308-001
Part No.:	X-182716-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi	Stem				Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064344	HY230222-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2304-Q11
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Gate					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:	API 6A 21st/PSL3	Circular AMPS:		1600A	
Test Method:	Fluorescence Wet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/cm²	
Stage:	Machined	Concentration:	0.2ml/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007136	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2304-H11
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Gate					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007136	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2304-Q12
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3200A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007109	HC2302005-01	Acceptable				
2	AS007124	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2304-H12
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007109	HC2302005-01	Acceptable				
2	AS007124	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0321-002
Part No.:	X-182591-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007093	HY230211-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP064F049
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A 21st	1	OK
Seat	15000psi	API 6A 21st	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	AS001007	HY230325-1	OK	OK					

Drift Test：

Diameter Φ 179.7 mm drift test gauge can freely pass through the through hole of the valve.

Inspection Coverage:

Per Specification & Requirements: API 6A 21st

		Approved By:	Examined By:
Judgments:	[V] Conforms	Xin Zheng	Yifei Ma
	[ ] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

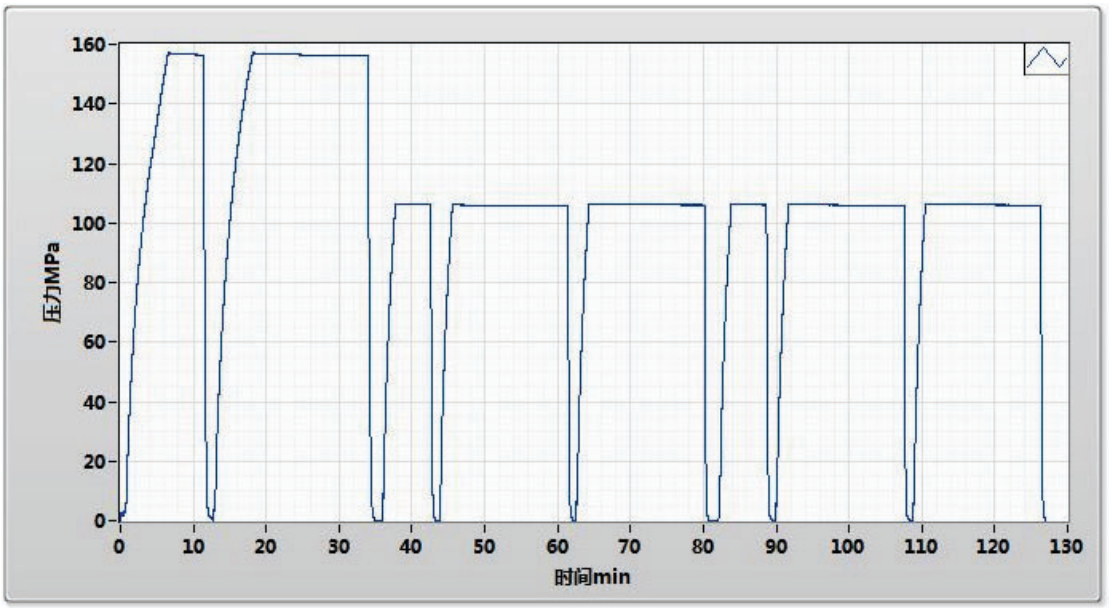
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP064F049	7-1/16" 15000Psi	API 6A　21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.93	156.41	4.0	0.52
2	156.95	156.18	15.0	0.77
3	106.25	106.19	4.0	0.06
4	106.05	105.85	15.0	0.21
5	106.23	106.03	15.0	0.21
6	106.21	106.03	4.0	0.18
7	106.22	105.90	15.0	0.32
8	106.24	105.98	15.0	0.25



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei　Ma	Xin Zheng	Zhicheng Feng	2023.04.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

REPORT INDEX

Purchase Order: 1437

Quantity: 1EA

Shipment No.: Crate# AP064F050

Shipment Date: April，2023

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
2	Metallurgical Test Certificate	Page - 3
2.1	Mechanical Testing	Page - 3
2.2	Chemical Testing	Page -3
2.3	Heat Treatment	Page - 3
3	Hardness Test	Page - 4-12
4	Ultrasonic Testing	Page - 13-17
5	Magnetic Particle Inspection Report	Page - 18-26
6	Hydrostatic Test	Page - 27-28

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1437, DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE-0.5 CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: 1437
SERIAL NO.: AP064F050
PART NO.: PFFY105/180-00
QANTITY: 1
INSPECTION STANDARD: API Spec 6A 21st EE-0.5, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME:

(STAMP)

INSPECTOR:Zhicheng Feng

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: April，2023

Customer: _____

P.O. Number: **1437**

安澜科技（江苏）股份有限公司

No.： AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Date:April，2023

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	1437	HYDRAULIC GATE VALVE	PFFY105/180-00	AP064F050	1	7-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
PFFY105/180-00	BODY	TX22-05908	HY230321-3	AISI 4130 75K,Per ASTM A29	1	AP064048	Forging	865	5.5H	WATER	21	24	670	7.5H	AIR	/	/	/	
	UPPER BONNET	22VD0368	RD-03-18	AISI 4130 75K,Per ASTM A29	1	AS007021	Forging	860	5.0H	WATER	26	39	690	7.0H	AIR	/	/	/	
	LOWER BONNET	22DV0368	RD-03-09	AISI 4130 75K,Per ASTM A29	1	AS007033	Forging	860	6.0H	WATER	26	38	670	8.0H	AIR	/	/	/	
	STEM	YX2212-2116	HY230227-1	PH17-4 105K,Per ASTM A564/564M	1	AS007078	Forging	1030	3.0H	WATER	17	20	630	4.5H	AIR	630	4.5H	AIR	
	BALANCE STEM	YX2301-1601	HY230211-4	PH17-4 105K,Per ASTM A564/564M	1	AS007094	Forging	1030	3.5H	WATER	14	17	630	5.0H	AIR	630	5.2H	AIR	
	GATE	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	1	AS007139	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	
	BODY BUSHING	122V-1118	HC2302005-01	AISI 410 75K,Per ASTM A276/276M	2	AS007122 AS007123	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR	

Chemical Analysis (wt, %)															Physical Properties								
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
TX22-05908	HY230321-3	0.31	0.67	0.30	0.009	0.007	1.06	0.20	0.21	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	702	539	21.7	60.5	44/61/38	223HBW	JBW-300B/ WDW-300
22VD0368	RD-03-18	0.316	0.732	0.301	0.008	0.004	1.08	0.25	0.216	0.007	/	/	0.091	/	/	8"x8"x10"	QTC	677	544	54.0	60.0	62/65/56	222HBW	JBW-300B/ WDW-300
22DV0368	RD-03-09	0.316	0.732	0.301	0.008	0.004	1.08	0.25	0.216	0.007	/	/	0.091	/	/	8"x8"x10"	QTC	680	558	54.0	58.0	61/66/56	220HBW	JBW-300B/ WDW-300
YX2212-2116	HY230227-1	0.024	0.55	0.36	0.032	0.002	15.66	4.08	/	/	/	/	3.62	0.235	/	Φ80x200	QTC	1022	927	21.3	58.5	36/49/47	31HRC	JBW-300B/ WDW-300
YX2301-1601	HY230211-4	0.026	0.56	0.41	0.032	0.001	15.70	4.08	/	/	/	/	3.63	0.240	/	Φ80x200	QTC	1018	933	21.2	57.5	55/59/40	31HRC	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300
122V-1118	HC2302005-01	0.14	0.40	0.22	0.012	0.006	11.66	0.06	0.042	0.034	/	/	0.027	/	/	100x100x200	QTC	690	580	24.0	66.0	/	226HBW	JBW-300B/ WDW-300

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase order and have been found to be satisfactory.

The information in this report is true and correct to our knowledge.

Xin Zheng

NAME of QA Manager, for and on the authority of COMPANY NAME

安澜科技（江苏）股份有限公司

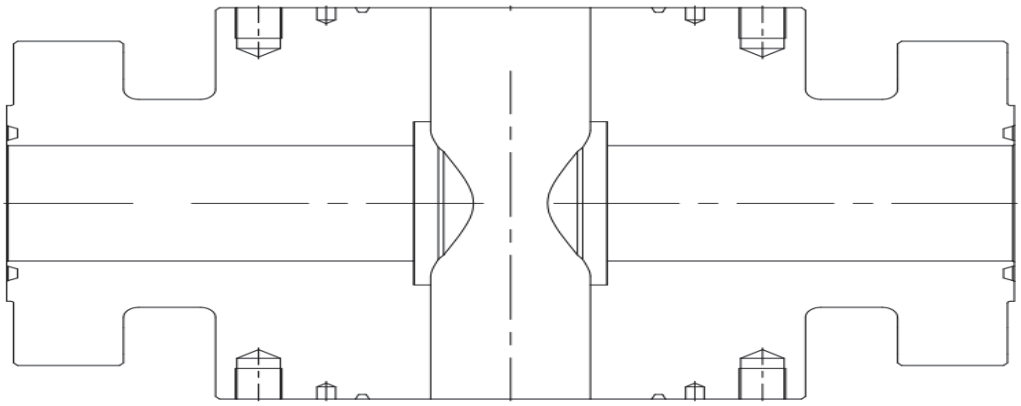
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0403-001
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP064048	HY230321-3	226HBW/235HBW 219HBW/216HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

安澜科技（江苏）股份有限公司

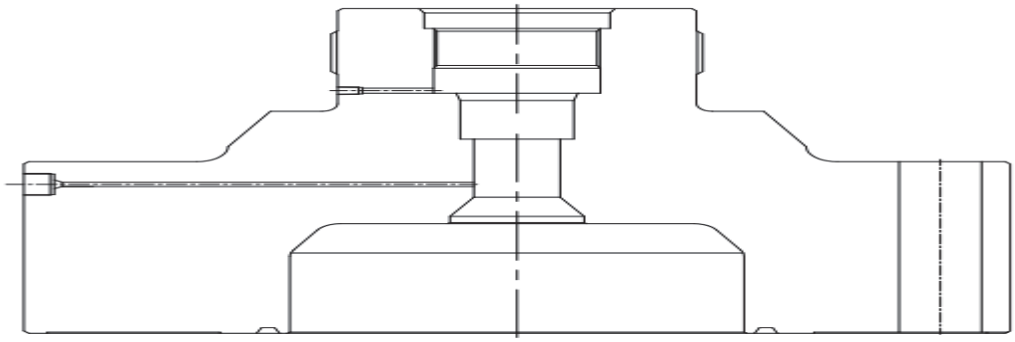
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0328-005
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007021	RD-03-18	219HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of tungsten ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

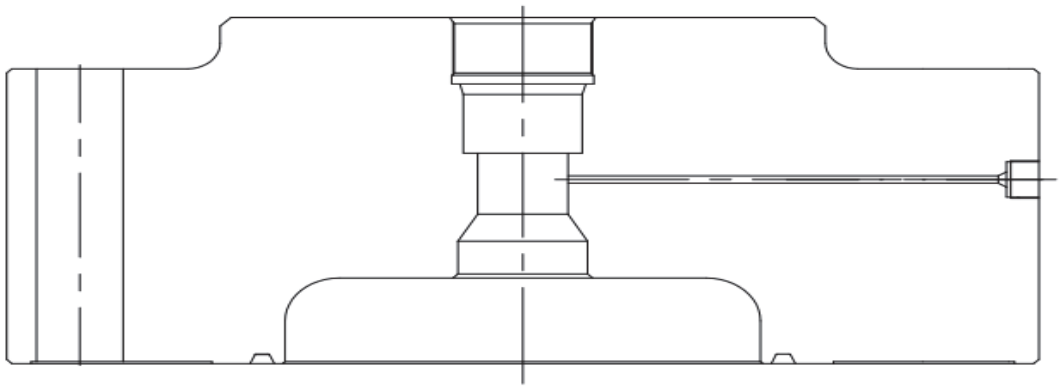
ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HS-0320-005
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007033	RD-03-09	222HBW				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of tungsten ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[ ] Does Not Conform		

安澜科技（江苏）股份有限公司

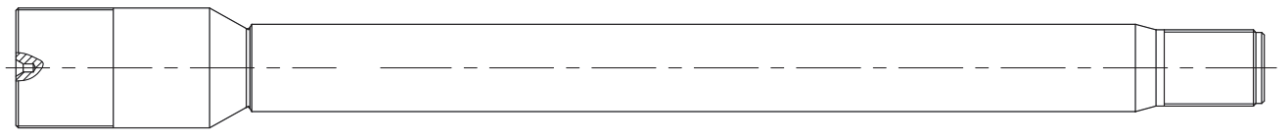
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074
Report #:	HS-0315-005				
Part No.:	X-182716-01	Material:	PH17-4 105K	Coating:	/
Description:	7-1/16"15000psi　Stem			Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007078	HY230227-1	29HRC				

Sketch:



Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

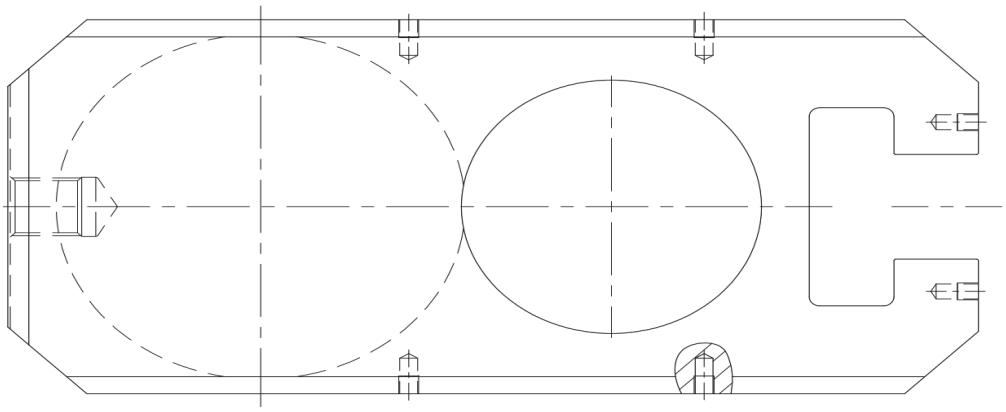
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230406-01
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007139	HC2302005-01	234HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

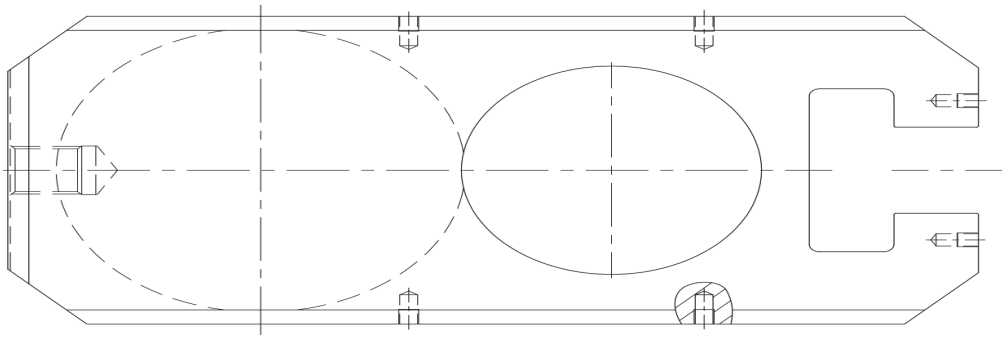
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230406-03
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007139	HC2302005-01	1171HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

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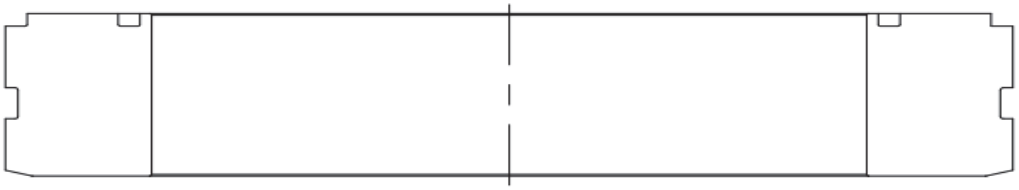
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20230406-02
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007122	HC2302005-01	228HBW				
2	AS007123	HC2302005-01	225HBW				

Sketch:



Method Used:	Impact Energy：3000Kg.　　Diameter of tungsten ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

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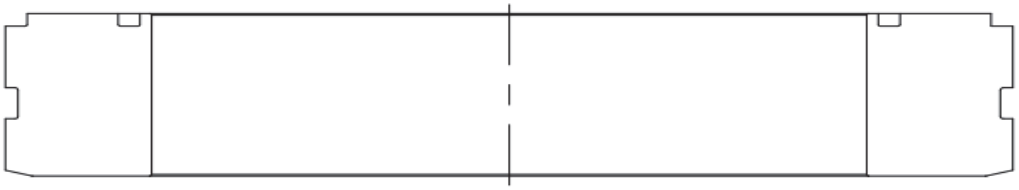
ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20230406-04
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi　Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007122	HC2302005-01	1197HV				
2	AS007123	HC2302005-01	1171HV				

Sketch:



Method Used:	Impact Energy：5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[　V] Conforms [　　] Does Not Conform	Xin zheng	Zhengguo Yao

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ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HS-0321-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi　Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AS007094	HY230211-4	31HRC				

Sketch:

Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[　V] Conforms	Xin zheng	Zhengguo Yao
	[　　] Does Not Conform		

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0325-001
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064048	HY230321-3	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block Φ6.4 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB Φ6.4DAC+6dB	Level as per UT:	II

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ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:	[redacted]		Customer PO#:	[redacted]		Date:	[redacted]
Drawing #:	[redacted]	Specification:	[redacted]	API Monogram:	[redacted]	Report #:	[redacted]
Part No.:	[redacted]	Material:	[redacted]			Coating:	[redacted]
Description:	7-1/16"15000psi　Upper Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007021	RD-03-18	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST.　HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0310-001
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007033	RD-03-09	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0312-001
Part No.:	X-182716-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007078	HY230227-1	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTS-0315-001
Part No.:	X-182591-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007094	HY230211-4	Acceptable				

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASTM A388	Technique:	STRAIGHT PROBE	Examined By:	**Dongkai Xu**
Exam. Stage:	Rough After	Calibration:	Block：CSK -I A Φ1.6 FBH Block Φ3.2 FBH Block	Level as per UT:	II
Equipment:	MUT-800C	Couplant:	OIL		
Date of calibration	2023.03.02				
Period of validity	2024.03.02				
Probe Used:	2.5P℄14+℄20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	**Xin Zheng**
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ1.6DAC+6dB Φ3.2DAC+6dB	Level as per UT:	II

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0403-001
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi　Body					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3100A 2800A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3310Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP064048	HY230321-3	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0328-002
Part No.:	X-182585-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Upper Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007021	RD-03-18	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTS-0320-001
Part No.:	X-182586-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi Lower Bonnet					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		2500A 3500A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		3490Uw/cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007033	RD-03-09	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai　Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0315-001
Part No.:	X-182716-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi	Stem				Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007078	HY230227-1	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2304-Q11
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Gate					Quantity:	1
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		1600A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007139	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2304-H11
Part No.:	X-182589-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Gate					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		≥1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007139	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2304-Q12
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Equipment:	CYD-5000	Acceptance Criteria:		API 6A 21st/PSL3	Circular AMPS:		3200A
Test Method:	Fluorescence Wet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.2ml/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007122	HC2302005-01	Acceptable				
2	AS007123	HC2302005-01	Acceptable				

Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2304-H12
Part No.:	X-182590-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"15000psi Body Bushing					Quantity:	2
Test Method:	Type II Method C	Acceptance Criteria:		API 6A 21st/PSL3	Penetrate Type:		DPT-5
Remover Type:	DPT-5	Developer Type:		DPT-5	Light Intensity:		≥1076Lx
Stage:	Machined	Penetrate Time:		10min	Develop Time:		10min

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007122	HC2302005-01	Acceptable				
2	AS007123	HC2302005-01	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.04

安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1437		Date:	2023.03
Drawing #:	PFFY105/180-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTS-0321-002
Part No.:	X-182591-01	Material:	PH17-4-105K			Coating:	/
Description:	7-1/16"15000psi Balance Stem					Quantity:	1
Test Method:	Type II Method C	Acceptance Criteria:	API 6A 21st/PSL3	Penetrate Type:		DPT-5	
Remover Type:	DPT-5	Developer Type:	DPT-5	Light Intensity:		⩾1076Lx	
Stage:	Machined	Penetrate Time:	10min	Develop Time:		10min	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AS007094	HY230211-4	Acceptable				

Inspection Coverage:

Liquid penetrate examination was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Dongkai Xu**	Organization:	QC Department
Approved by:	**Xin Zheng**		
NDT Level:	MT Ⅱ	Date:	2023.03

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HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	1437		Date:	2023.04
Drawing #:	PFFY105/180-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP064F050
Part No.:	X-182734-01	Material:	AISI 4130 75K			Coating:	/
Description:	7-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A 21st	1	OK
Seat	15000psi	API 6A 21st	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	AP064048	HY230321-3	OK	OK					

Drift Test：

Diameter Φ 179.7 mm drift test gauge can freely pass through the through hole of the valve.

Inspection Coverage:

Per Specification & Requirements: API 6A 21st

		Approved By:	Examined By:
Judgments:	[V] Conforms	Xin Zheng	Yifei Ma
	[ ] Does Not Conform		

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ANLAN TECHNOLOGY (JIANGSU)　CO.,LTD

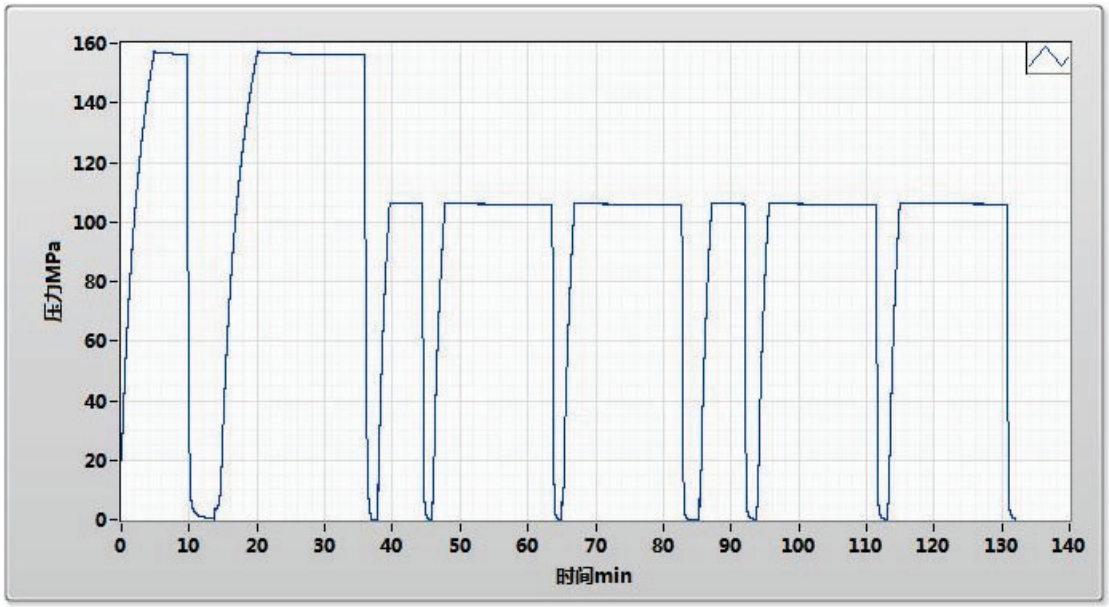
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP064F050	7-1/16" 15000Psi	API 6A　21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.87	156.24	4.0	0.63
2	156.95	156.01	15.0	0.94
3	106.24	106.19	4.0	0.06
4	106.16	105.92	15.0	0.24
5	106.14	105.90	15.0	0.23
6	106.21	106.03	4.0	0.18
7	106.20	105.83	15.0	0.38
8	106.28	105.99	15.0	0.29



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei　Ma	Xin Zheng	Zhicheng Feng	2023.04.04

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-113"CWI609"

Quantity: 1EA

Shipment No.: Crate# FD002006

Shipment Date: Jul,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-113"CWI609" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-113"CWI609"
SERIAL NO.: FD002006
HEAT TREAT #:RC-06-10
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jul,2019

Customer: _____

P.O. Number: **LB18-113"CWI609"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jul,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-113"CWI609"	Ball Screw Gate Valve	02040	FD002006	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
									Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
02040	BODY	118-12-027	RC-06-10	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD012006	Forging	860	4.5H	WATER	32	40	695	6.25H	AIR	/	/	/	
	BONNET	118-12-027	HC1904028	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD022003	Forging	870	4.0H	WATER	20	34	685	5.5H	AIR	/	/	/	
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD232014	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/	
	STEM	B3800409	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD042018	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	BALANCE STEM	B3800409	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD242018	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FD082018	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR	
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FD052044 FD052043	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR	

Melt No.	H.T. No.	Chemical Analysis (wt, %)														Physical Properties							
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	RC-06-10	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	715.8	631.8	22.8	58.0	68/75/80	217HB	KING-3000
118-12-027	HC1904028	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	706.0	658.8	24.2	53.8	72/68/75	214HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
B3800409	RC-06-47	0.12	0.66	0.48	0.017	0.001	12.19	0.08	/	/	/	/	/	/	/	¢0.5"x2"	QTC	710.9	645.7	23.2	59.0	76/78/69	215HB	KING-3000
B3800409	RC-06-47	0.12	0.66	0.48	0.017	0.001	12.19	0.08	/	/	/	/	/	/	/	¢0.5"x2"	QTC	710.9	645.7	23.2	59.0	76/78/69	215HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	¢0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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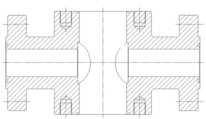
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD012006	RC-06-10	218HB/221HB 217HB/223HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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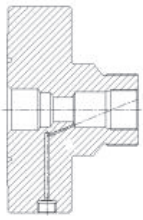
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD022003	HC1904028	222HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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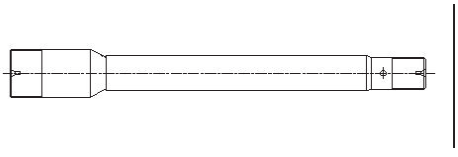
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD042018	RC-06-47	210HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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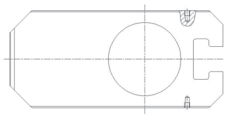
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD082018	TXY190517-1	223HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD052044	C190528T5	219HB				
2	FD052043	C190528T5	219HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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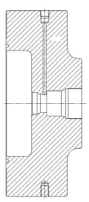
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD232014	HC1904026	222HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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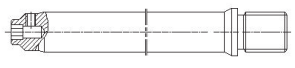
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD242018	RC-06-47	211HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012006	RC-06-10	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022003	HC1904028	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042018	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082018	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052044	C190528T5	Acceptable				
1	FD052043	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232014	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242018	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012006	RC-06-10	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022003	HC1904028	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042018	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082018	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052044	C190528T5	Acceptable				
2	FD052043	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232014	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242018	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FD002006	RC-06-10	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

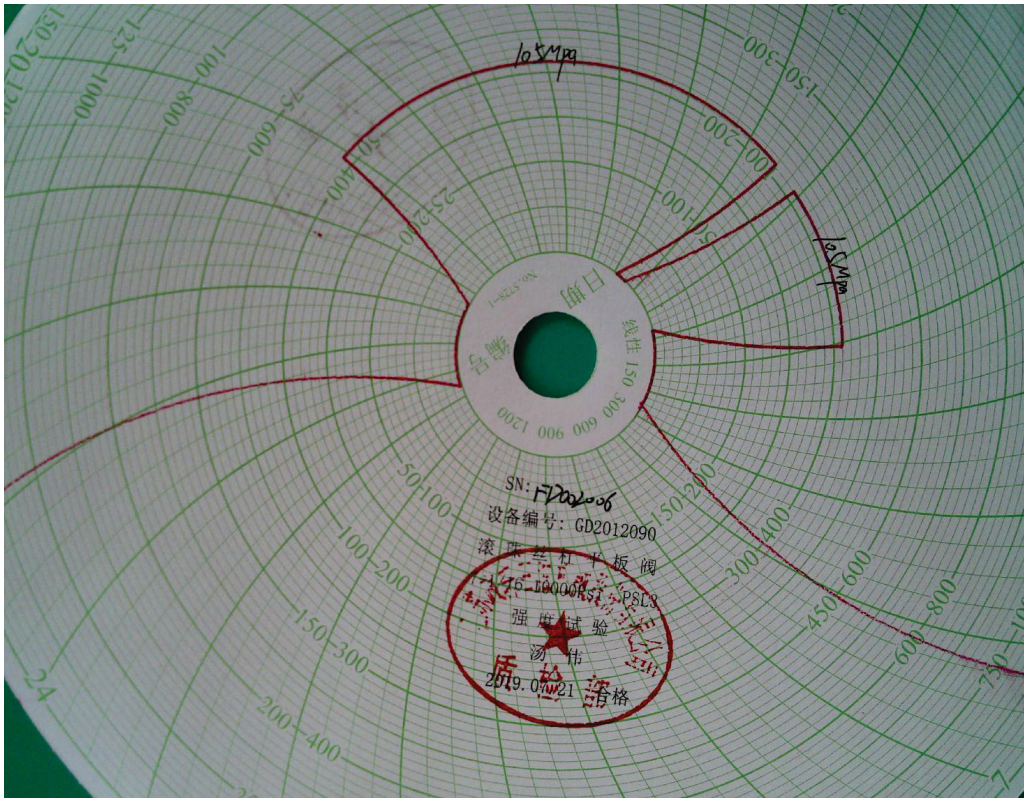
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002006	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	105.0Mpa	103.6Mpa	180S	1.4Mpa
2	105.0Mpa	103.8Mpa	900S	1.2Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.21

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

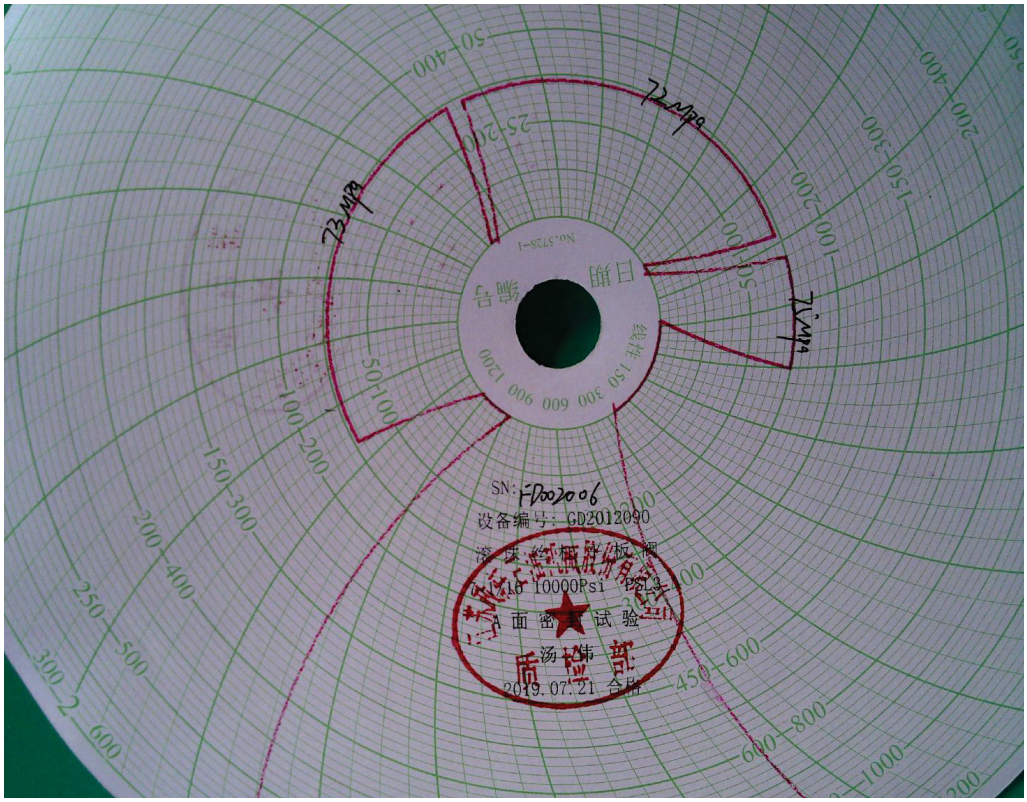
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002006	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	75.0Mpa	73.5Mpa	180S	1.5Mpa
2	72.0Mpa	71.8Mpa	900S	0.2Mpa
3	73.0Mpa	72.3Mpa	900S	0.7Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.21

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

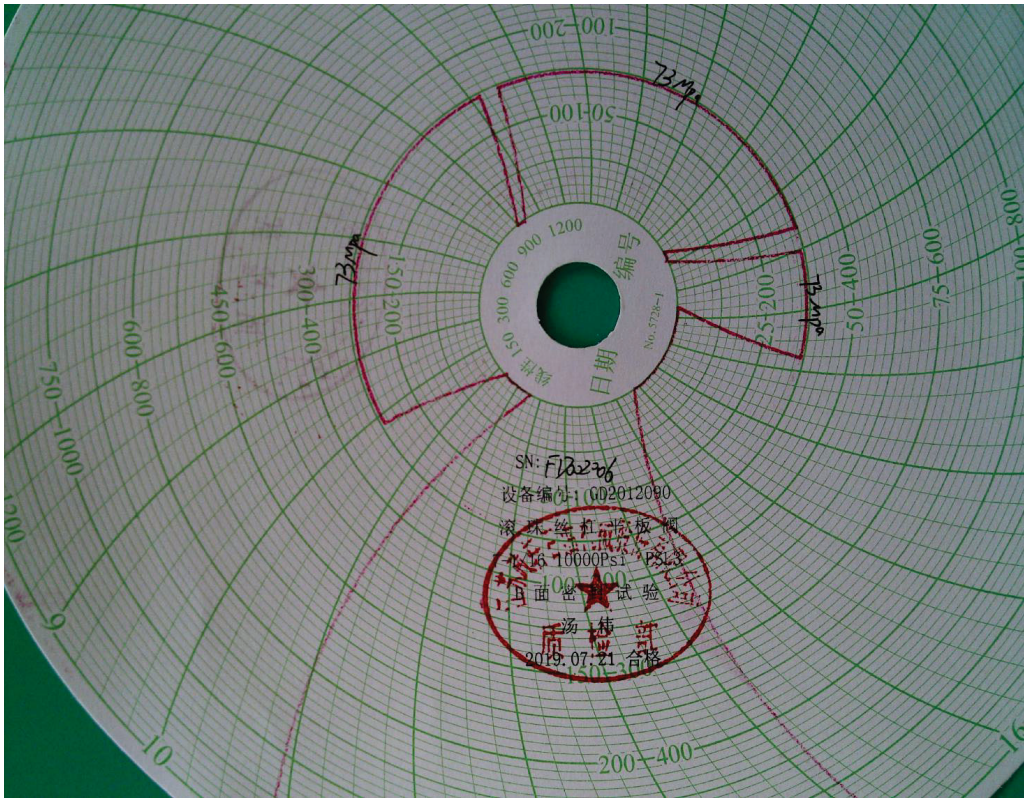
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002006	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	73.0Mpa	72.1Mpa	180S	0.9Mpa
2	73.0Mpa	72.4Mpa	900S	0.6Mpa
3	73.0Mpa	72.7Mpa	900S	0.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.21

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-113"CWI609"

Quantity: 1EA

Shipment No.: Crate# FD002009

Shipment Date: Jul,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
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CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-113"CWI609" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-113"CWI609"
SERIAL NO.: FD002009
HEAT TREAT #:RC-06-66
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jul,2019

Customer: _____

P.O. Number: **LB18-113"CWI609"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jul,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-113"CWI609"	Ball Screw Gate Valve	02040	FD002009	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
									Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
02040	BODY	118-12-027	RC-06-66	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD012009	Forging	860	4.5H	WATER	32	41	700	6.25H	AIR	/	/	/	
	BONNET	118-12-027	HC1904028	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD022010	Forging	870	4.0H	WATER	20	34	685	5.5H	AIR	/	/	/	
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD232003	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/	
	STEM	B3800409	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD042013	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	BALANCE STEM	B3800409	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD242021	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FD082023	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR	
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FD052025 FD052026	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR	

Melt No.	H.T. No.	Chemical Analysis (wt, %)														Physical Properties							
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	RC-06-66	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	720.7	626.1	21.2	60.1	70/68/76	218HB	KING-3000
118-12-027	HC1904028	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	706.0	658.8	24.2	53.8	72/68/75	214HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
B3800409	RC-06-47	0.12	0.66	0.48	0.017	0.001	12.19	0.08	/	/	/	/	/	/	/	¢0.5"x2"	QTC	710.9	645.7	23.2	59.0	76/78/69	215HB	KING-3000
B3800409	RC-06-47	0.12	0.66	0.48	0.017	0.001	12.19	0.08	/	/	/	/	/	/	/	¢0.5"x2"	QTC	710.9	645.7	23.2	59.0	76/78/69	215HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	¢0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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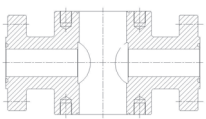
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD012009	RC-06-66	214HB/209HB 212HB/218HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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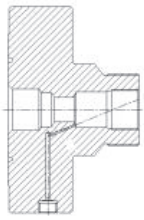
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD022010	HC1904028	219HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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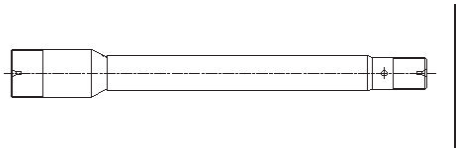
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD042013	RC-06-47	210HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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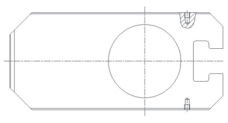
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD082023	TXY190517-1	227HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD052025	C190528T5	210HB				
2	FD052026	C190528T5	210HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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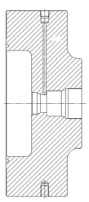
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD232003	HC1904026	217HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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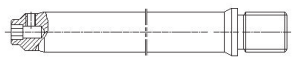
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD242021	RC-06-47	216HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012009	RC-06-66	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022010	HC1904028	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042013	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082023	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052025	C190528T5	Acceptable				
1	FD052026	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232003	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242021	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012009	RC-06-66	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022010	HC1904028	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042013	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082023	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052025	C190528T5	Acceptable				
2	FD052026	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232003	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242021	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FD002009	RC-06-66	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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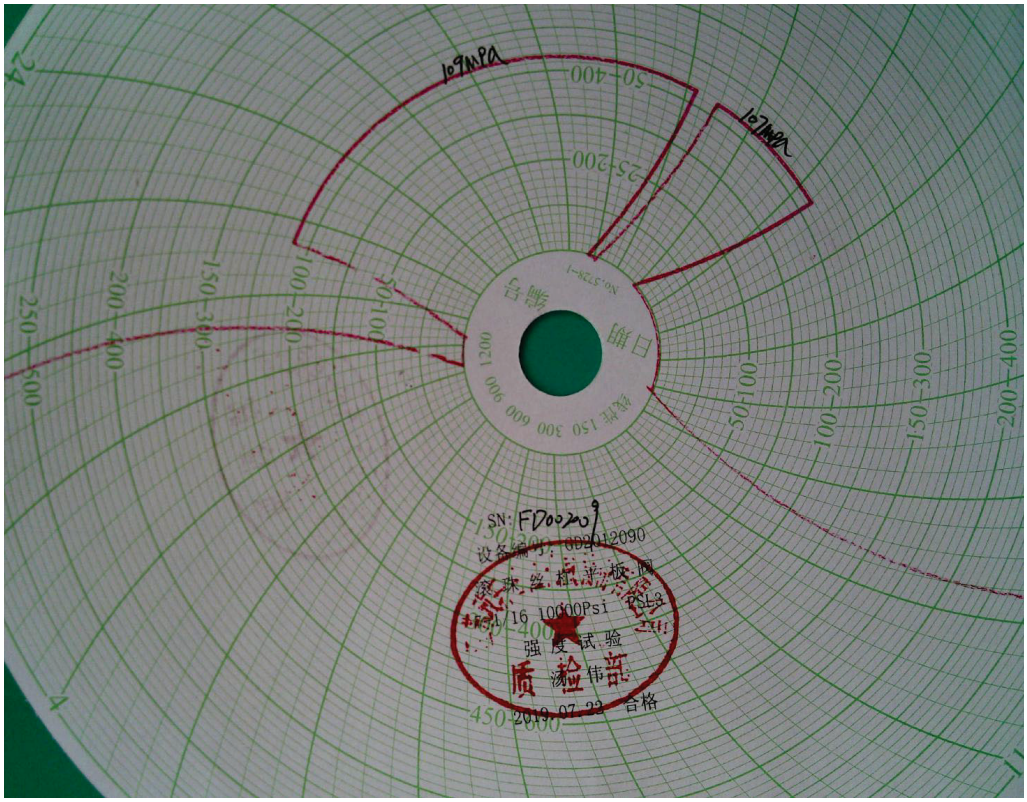
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002009	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	107.0Mpa	106.7Mpa	180S	0.3Mpa
2	109.0Mpa	107.8Mpa	900S	1.2Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

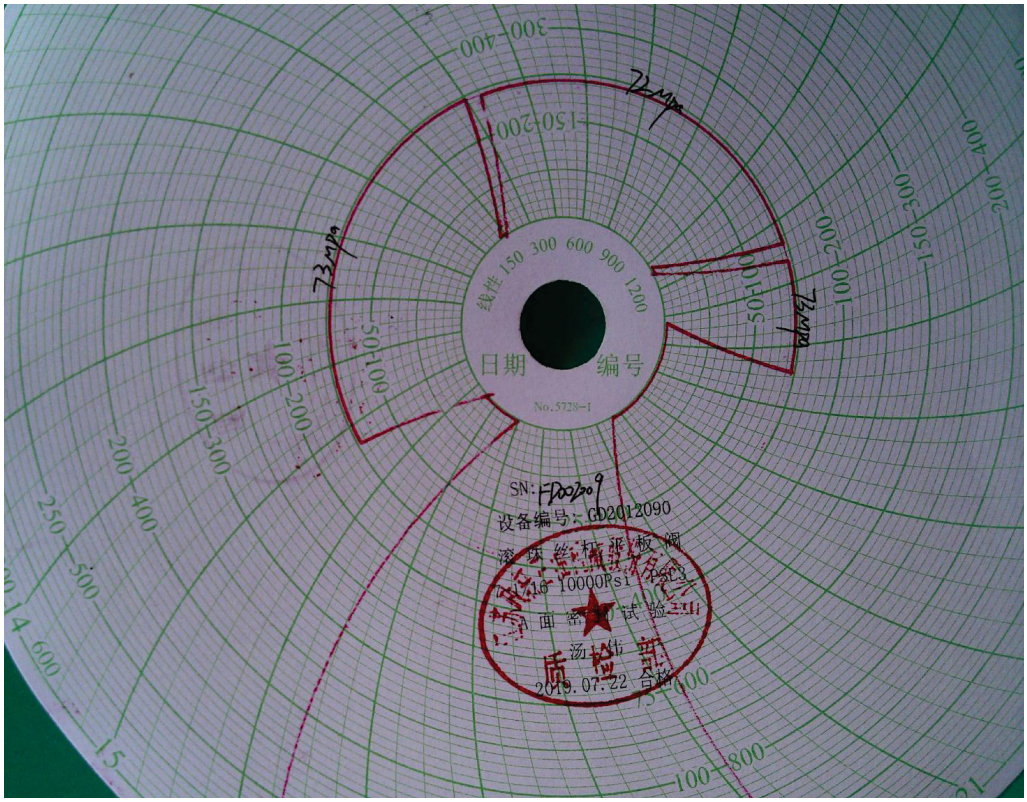
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002009	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	73.0Mpa	71.5Mpa	180S	1.5Mpa
2	72.0Mpa	71.4Mpa	900S	0.6Mpa
3	73.0Mpa	71.9Mpa	900S	1.1Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

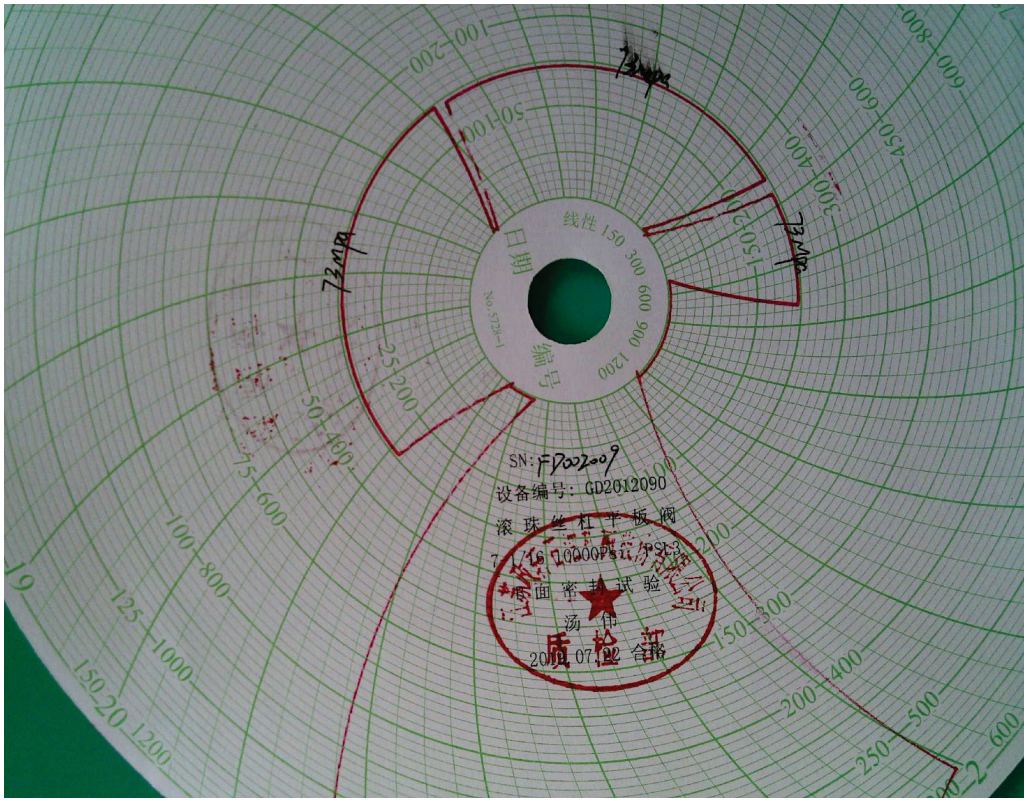
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002009	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	73.0Mpa	72.2Mpa	180S	0.8Mpa
2	73.0Mpa	72.3Mpa	900S	0.7Mpa
3	73.0Mpa	72.6Mpa	900S	0.4Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-113"CWI609"

Quantity: 1EA

Shipment No.: Crate# FD002010

Shipment Date: Jul,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-113"CWI609" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-113"CWI609"
SERIAL NO.: FD002010
HEAT TREAT #:RC-06-76
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jul,2019

Customer: _____

P.O. Number: **LB18-113"CWI609"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jul,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-113"CWI609"	Ball Screw Gate Valve	02040	FD002010	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
									Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
02040	BODY	118-12-027	RC-06-76	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD012010	Forging	860	4.25H	WATER	33	41	695	6.5H	AIR	/	/	/	
	BONNET	118-12-027	HC1904028	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD022014	Forging	870	4.0H	WATER	20	34	685	5.5H	AIR	/	/	/	
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD232006	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/	
	STEM	B3800409	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD042019	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	BALANCE STEM	B3800409	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD242022	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FD082019	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR	
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FD052042 FD052028	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR	

Melt No.	H.T. No.	Chemical Analysis (wt, %)														Physical Properties							
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	RC-06-76	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	713.4	653.0	23.2	57.0	68/72/76	216HB	KING-3000
118-12-027	HC1904028	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	706.0	658.8	24.2	53.8	72/68/75	214HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
B3800409	RC-06-47	0.12	0.66	0.48	0.017	0.001	12.19	0.08	/	/	/	/	/	/	/	¢0.5"x2"	QTC	710.9	645.7	23.2	59.0	76/78/69	215HB	KING-3000
B3800409	RC-06-47	0.12	0.66	0.48	0.017	0.001	12.19	0.08	/	/	/	/	/	/	/	¢0.5"x2"	QTC	710.9	645.7	23.2	59.0	76/78/69	215HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	¢0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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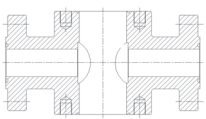
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD012010	RC-06-76	207HB/211HB 205HB/213HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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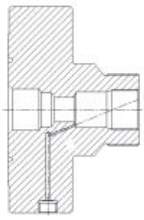
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD022014	HC1904028	224HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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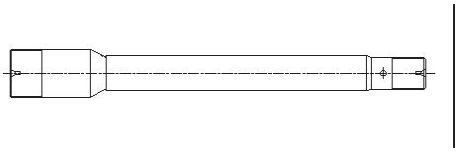
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD042019	RC-06-47	215HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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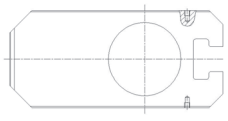
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD082019	TXY190517-1	223HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD052042	C190528T5	216HB				
2	FD052028	C190528T5	210HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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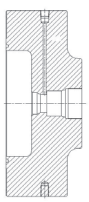
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD232006	HC1904026	228HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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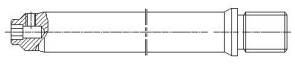
HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD242022	RC-06-47	216HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012010	RC-06-76	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022014	HC1904028	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042019	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082019	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052042	C190528T5	Acceptable				
1	FD052028	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232006	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242022	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012010	RC-06-76	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022014	HC1904028	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042019	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082019	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052042	C190528T5	Acceptable				
2	FD052028	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232006	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242022	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FD002010	RC-06-76	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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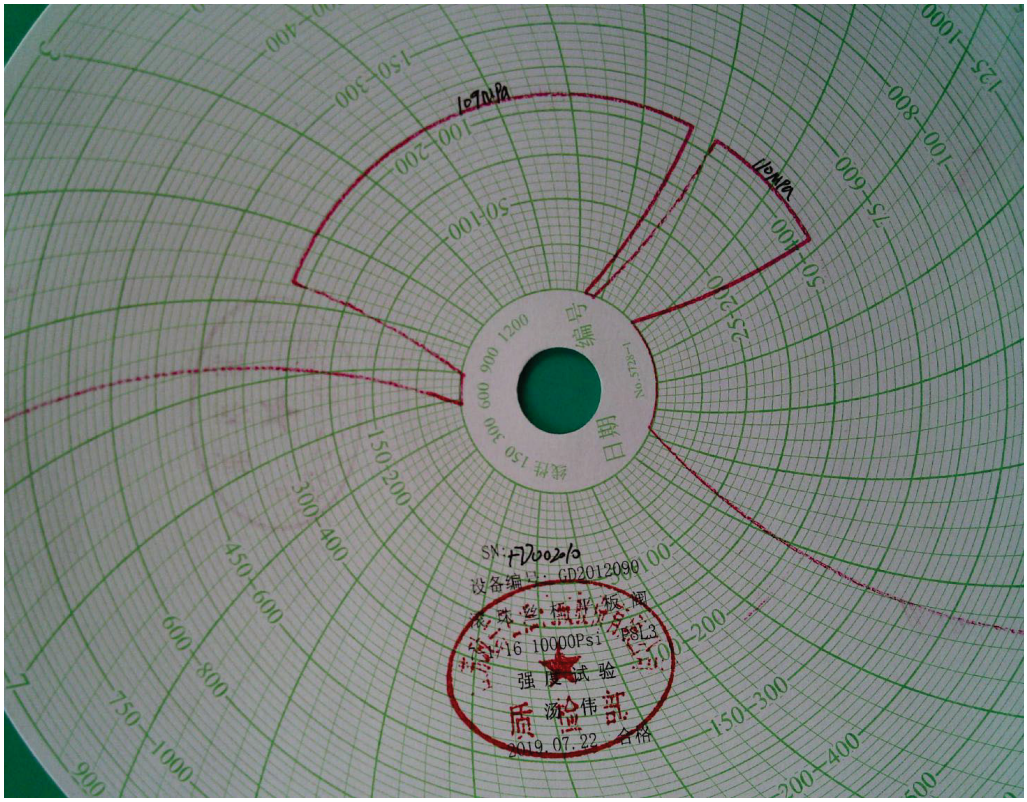
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002010	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	110.0Mpa	108.7Mpa	180S	1.3Mpa
2	109.0Mpa	108.6Mpa	900S	0.4Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

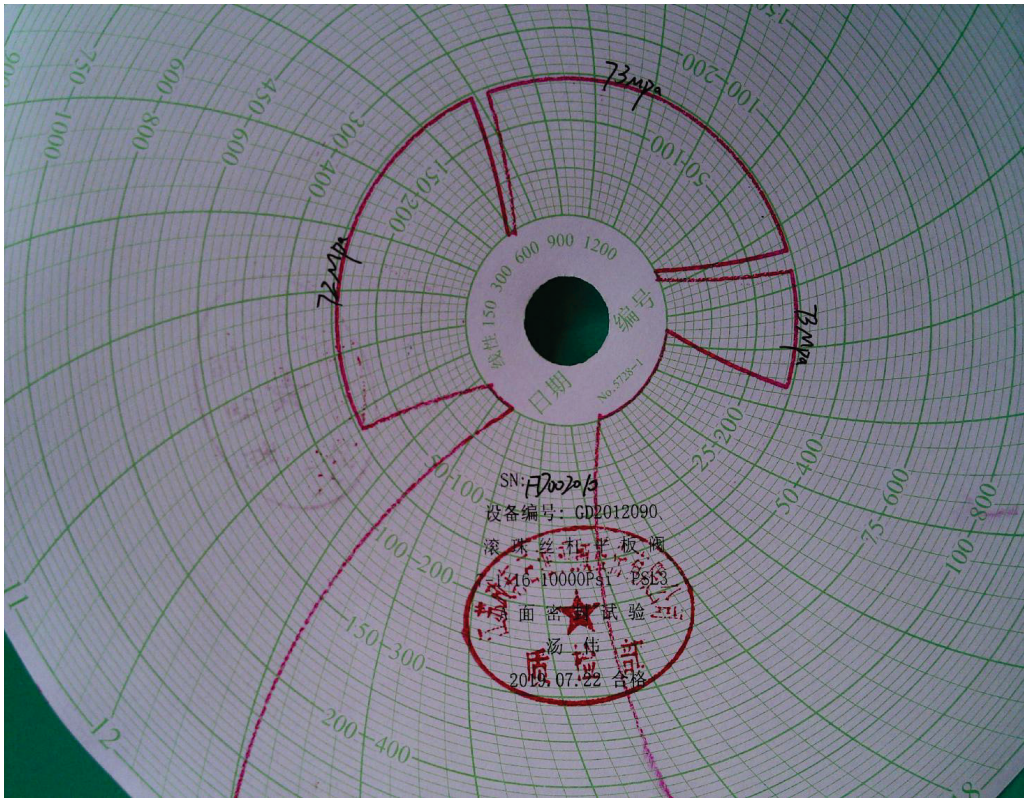
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002010	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	73.0Mpa	71.6Mpa	180S	1.4Mpa
2	73.0Mpa	71.9Mpa	900S	1.1Mpa
3	72.0Mpa	71.8Mpa	900S	0.2Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

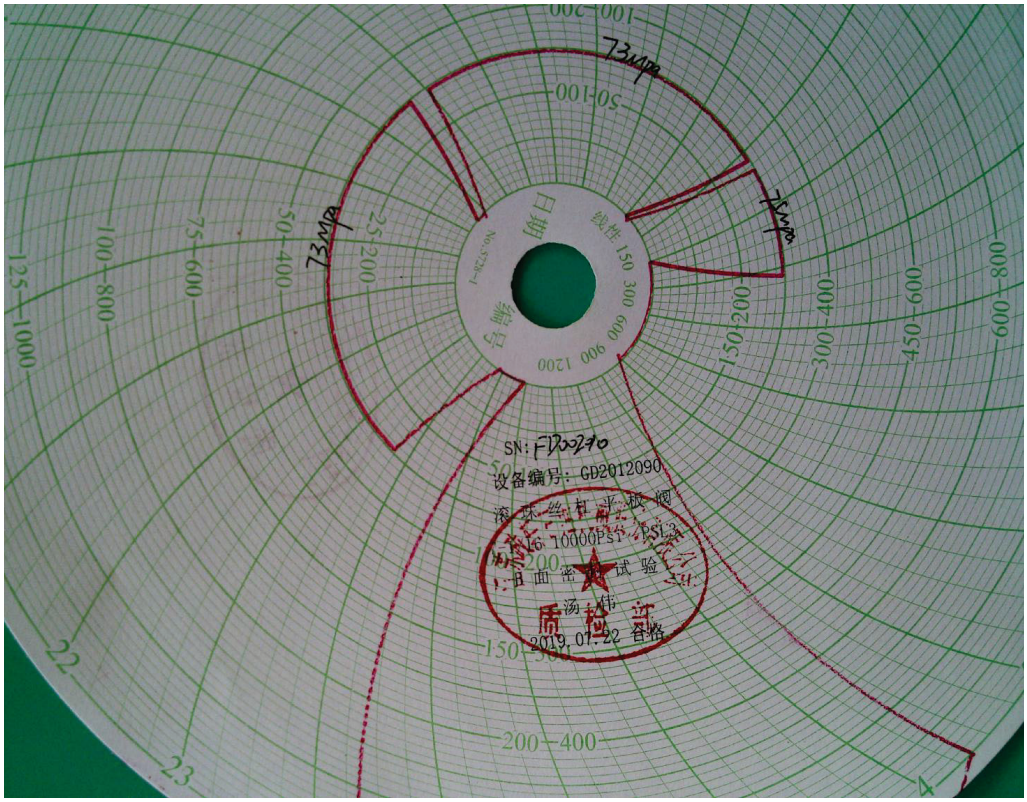
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002010	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	75.0Mpa	73.8Mpa	180S	1.2Mpa
2	73.0Mpa	72.3Mpa	900S	0.7Mpa
3	73.0Mpa	72.5Mpa	900S	0.5Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-113"CWI609"

Quantity: 1EA

Shipment No.: Crate# FD002011

Shipment Date: Jul,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-113"CWI609" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-113"CWI609"
SERIAL NO.: FD002011
HEAT TREAT #:RC-06-76
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jul,2019

Customer: _____

P.O. Number: **LB18-113"CWI609"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jul,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-113"CWI609"	Ball Screw Gate Valve	02040	FD002011	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
									Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
02040	BODY	118-12-027	RC-06-76	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD012011	Forging	860	4.25H	WATER	33	41	695	6.5H	AIR	/	/	/	
	BONNET	118-12-027	HC1904028	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD022013	Forging	870	4.0H	WATER	20	34	685	5.5H	AIR	/	/	/	
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD232005	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/	
	STEM	B3800409	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD042014	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	BALANCE STEM	B3800409	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD242024	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FD082024	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR	
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FD052031 FD052038	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR	

Melt No.	H.T. No.	Chemical Analysis (wt, %)														Physical Properties							
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	RC-06-76	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	713.4	653.0	23.2	57.0	68/72/76	216HB	KING-3000
118-12-027	HC1904028	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	706.0	658.8	24.2	53.8	72/68/75	214HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
B3800409	RC-06-47	0.12	0.66	0.48	0.017	0.001	12.19	0.08	/	/	/	/	/	/	/	¢0.5"x2"	QTC	710.9	645.7	23.2	59.0	76/78/69	215HB	KING-3000
B3800409	RC-06-47	0.12	0.66	0.48	0.017	0.001	12.19	0.08	/	/	/	/	/	/	/	¢0.5"x2"	QTC	710.9	645.7	23.2	59.0	76/78/69	215HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	¢0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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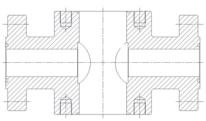
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD012011	RC-06-76	215HB/213HB 221HB/216HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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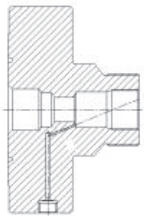
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD022013	HC1904028	208HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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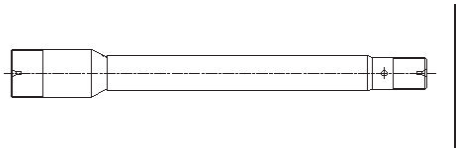
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD042014	RC-06-47	210HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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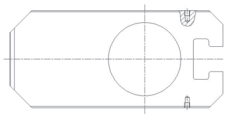
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD082024	TXY190517-1	227HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD052031	C190528T5	213HB				
2	FD052038	C190528T5	216HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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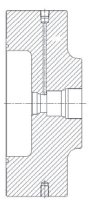
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD232005	HC1904026	219HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD242024	RC-06-47	216HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012011	RC-06-76	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022013	HC1904028	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042014	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082024	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052031	C190528T5	Acceptable				
1	FD052038	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232005	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242024	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012011	RC-06-76	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022013	HC1904028	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042014	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082024	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052031	C190528T5	Acceptable				
2	FD052038	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232005	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242024	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FD002011	RC-06-76	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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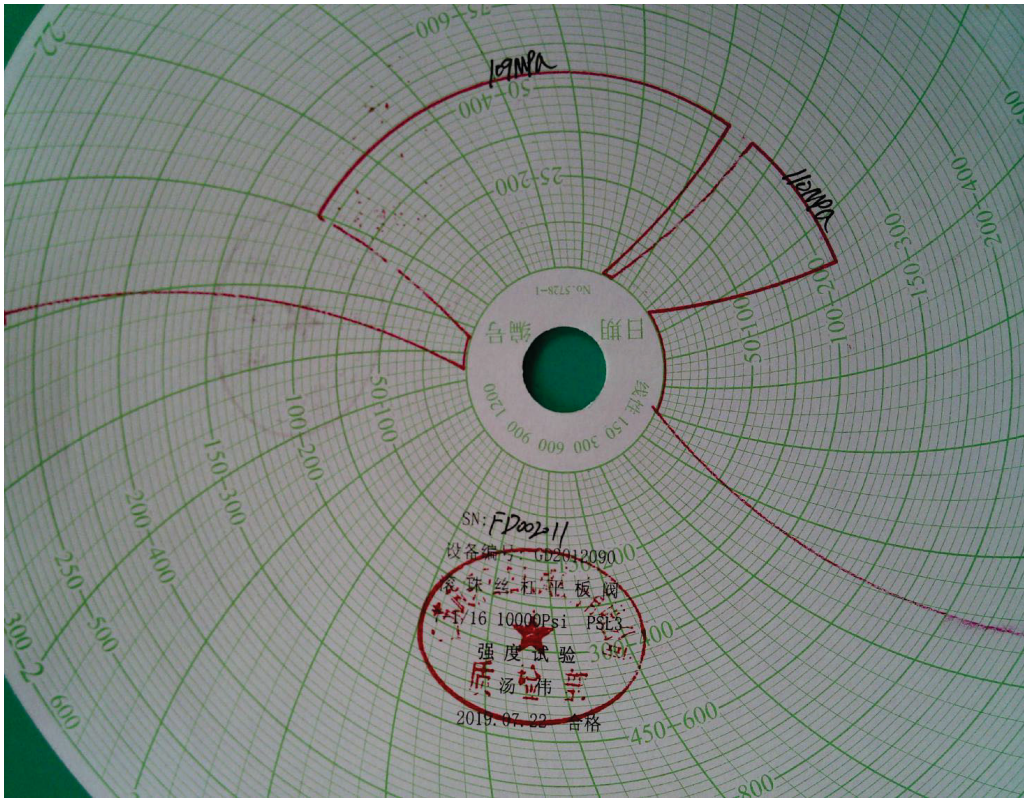
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002010	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	110.0Mpa	108.5Mpa	180S	1.5Mpa
2	109.0Mpa	108.7Mpa	900S	0.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

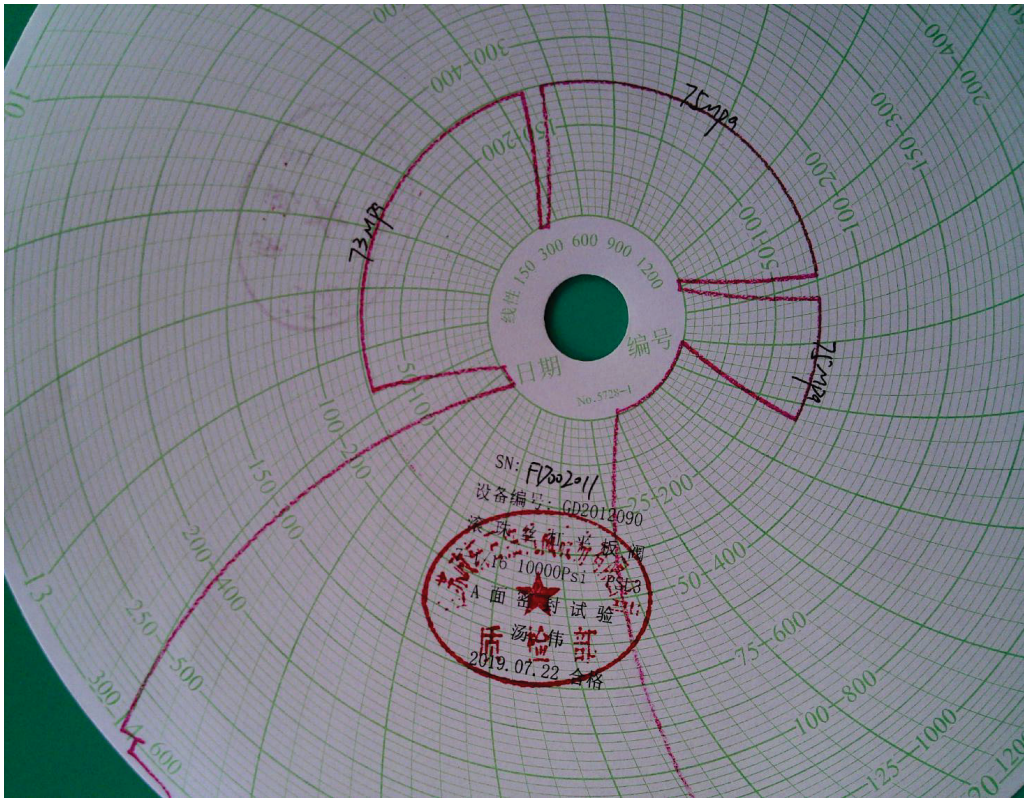
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002010	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	75.0Mpa	73.7Mpa	180S	1.3Mpa
2	75.0Mpa	73.9Mpa	900S	1.1Mpa
3	73.0Mpa	72.5Mpa	900S	0.5Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

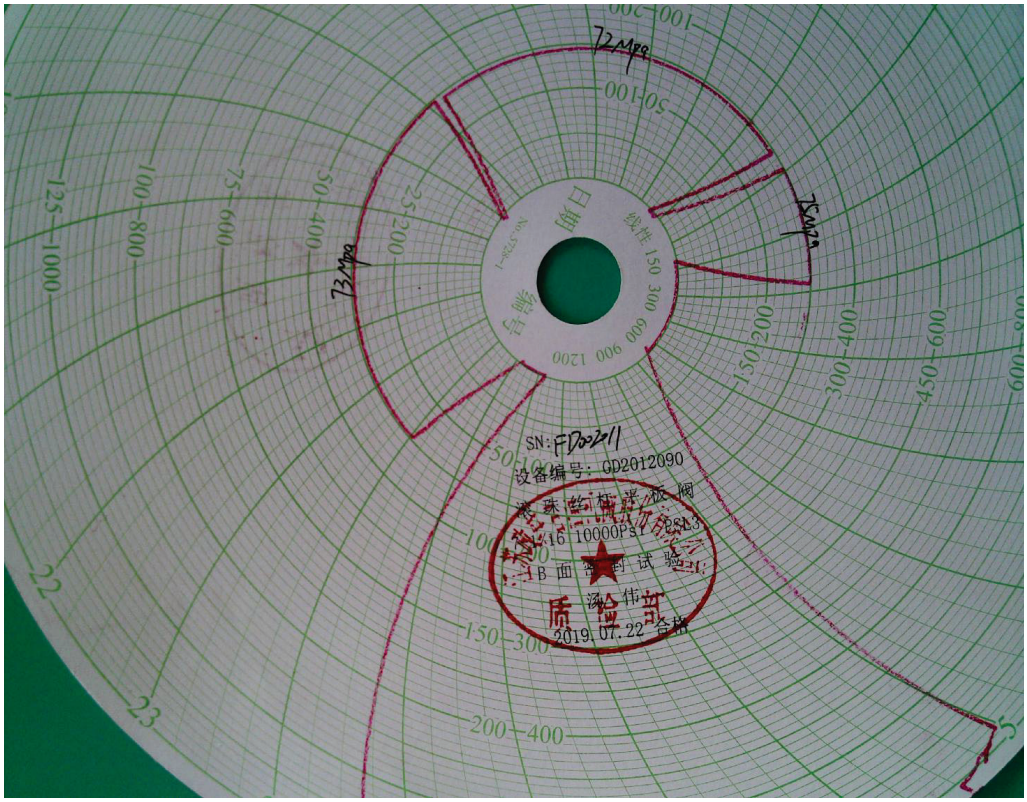
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002010	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	75.0Mpa	73.8Mpa	180S	1.2Mpa
2	72.0Mpa	71.4Mpa	900S	0.6Mpa
3	73.0Mpa	72.3Mpa	900S	0.7Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-113"CWI609"

Quantity: 1EA

Shipment No.: Crate# FD002012

Shipment Date: Jul,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-113"CWI609" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-113"CWI609"
SERIAL NO.: FD002012
HEAT TREAT #:RC-06-76
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jul,2019

Customer: _____

P.O. Number: **LB18-113"CWI609"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jul,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-113"CWI609"	Ball Screw Gate Valve	02040	FD002012	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
									Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
02040	BODY	118-12-027	RC-06-76	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD012012	Forging	860	4.25H	WATER	33	41	695	6.5H	AIR	/	/	/	
	BONNET	118-12-027	HC1904028	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD022011	Forging	870	4.0H	WATER	20	34	685	5.5H	AIR	/	/	/	
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD232004	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/	
	STEM	B3800409	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD042017	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	BALANCE STEM	B3800409	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD242020	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FD082021	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR	
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FD052030 FD052037	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR	

Melt No.	H.T. No.	Chemical Analysis (wt, %)														Physical Properties							
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	RC-06-76	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	713.4	653.0	23.2	57.0	68/72/76	216HB	KING-3000
118-12-027	HC1904028	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	706.0	658.8	24.2	53.8	72/68/75	214HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
B3800409	RC-06-47	0.12	0.66	0.48	0.017	0.001	12.19	0.08	/	/	/	/	/	/	/	¢0.5"x2"	QTC	710.9	645.7	23.2	59.0	76/78/69	215HB	KING-3000
B3800409	RC-06-47	0.12	0.66	0.48	0.017	0.001	12.19	0.08	/	/	/	/	/	/	/	¢0.5"x2"	QTC	710.9	645.7	23.2	59.0	76/78/69	215HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	¢0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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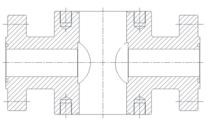
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD012012	RC-06-76	220HB/217HB 208HB/224HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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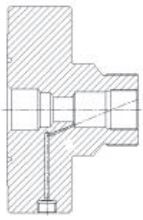
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD022011	HC1904028	212HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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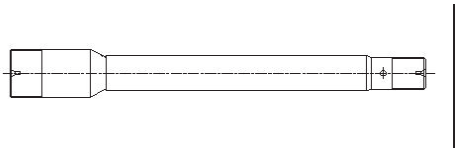
HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD042017	RC-06-47	210HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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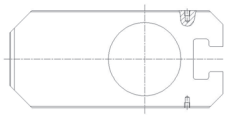
HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD082021	TXY190517-1	224HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD052030	C190528T5	210HB				
2	FD052037	C190528T5	216HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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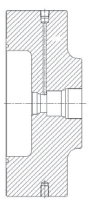
HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD232004	HC1904026	222HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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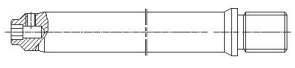
HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD242020	RC-06-47	216HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012012	RC-06-76	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022011	HC1904028	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042017	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082021	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052030	C190528T5	Acceptable				
1	FD052037	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232004	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242020	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012012	RC-06-76	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022011	HC1904028	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042017	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082021	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052030	C190528T5	Acceptable				
2	FD052037	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232004	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242020	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FD002012	RC-06-76	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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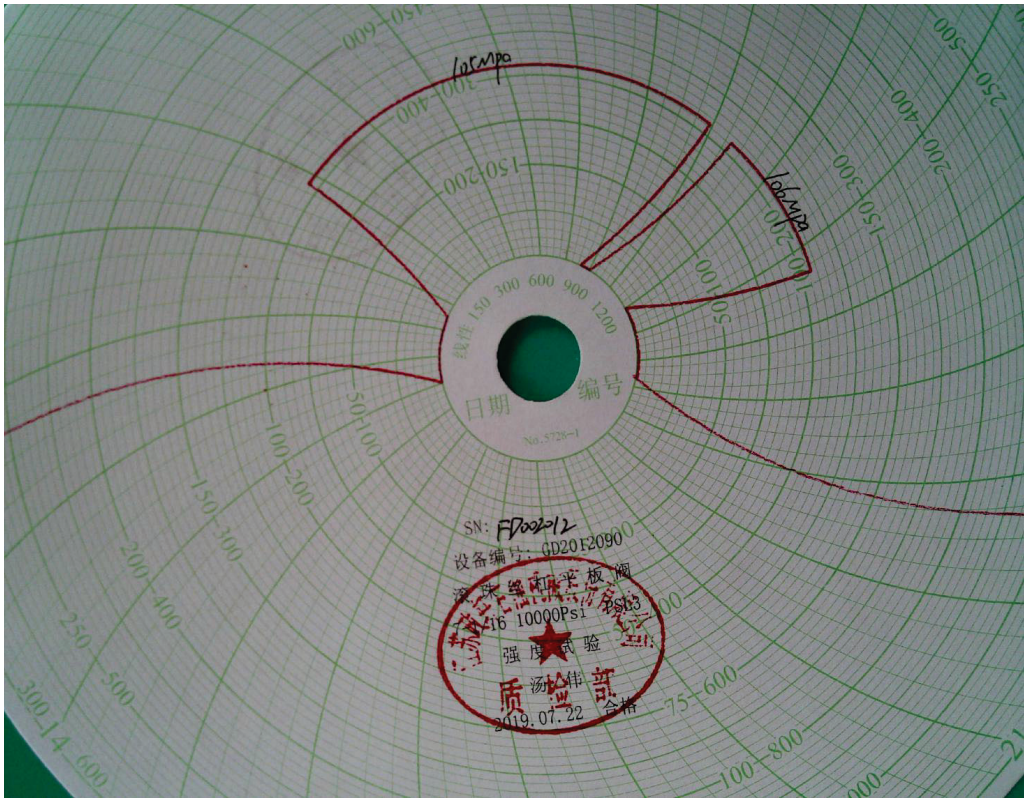
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002012	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	106.0Mpa	104.7Mpa	180S	1.3Mpa
2	105.0Mpa	104.2Mpa	900S	0.8Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

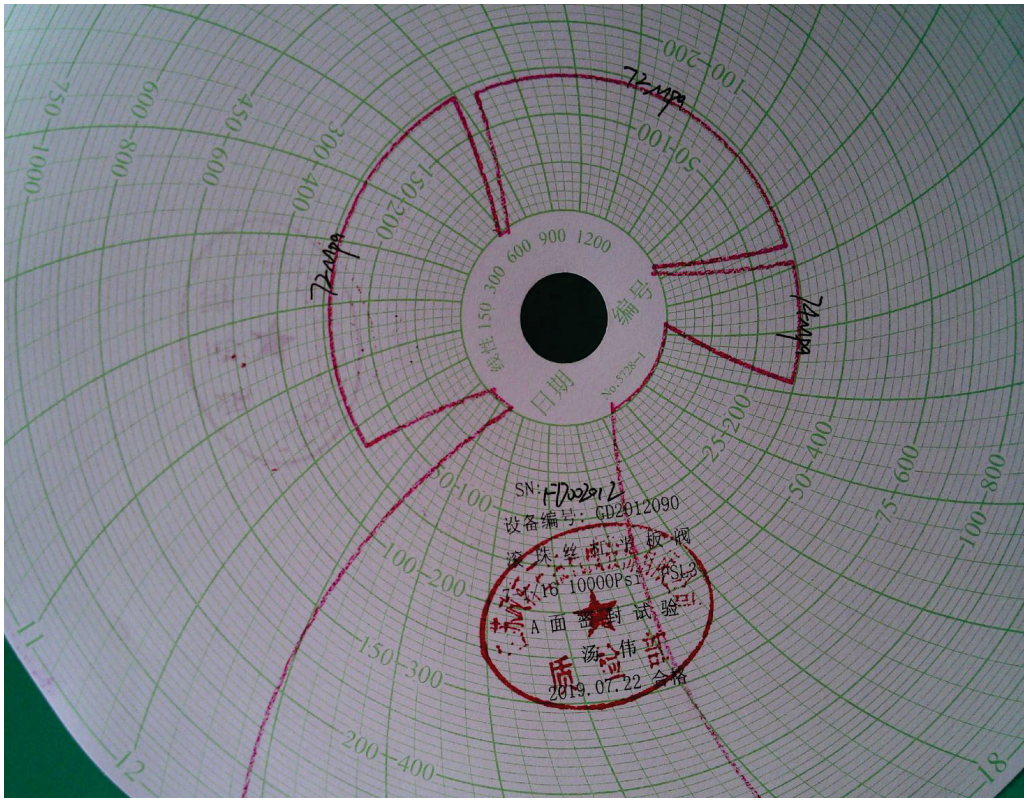
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002012	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	74.0Mpa	72.8Mpa	180S	1.2Mpa
2	72.0Mpa	71.3Mpa	900S	0.7Mpa
3	72.0Mpa	71.6Mpa	900S	0.4Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

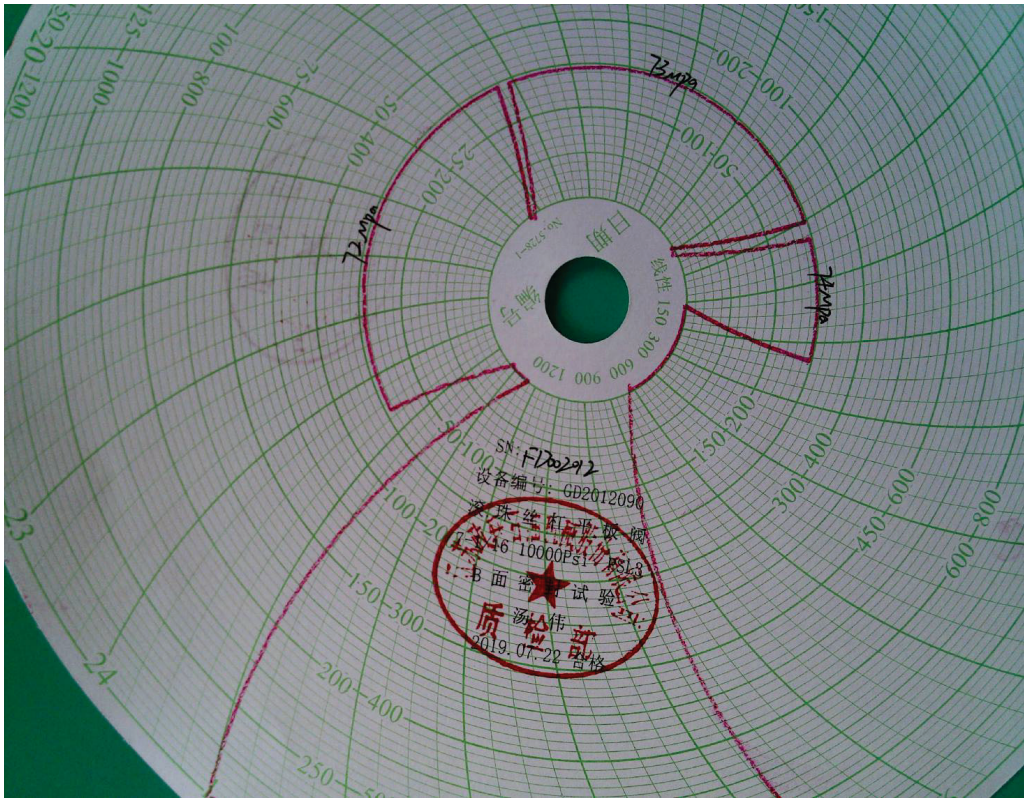
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002012	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	74.0Mpa	72.6Mpa	180S	1.4Mpa
2	73.0Mpa	71.1Mpa	900S	1.1Mpa
3	72.0Mpa	71.5Mpa	900S	0.5Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-113"CWI609"

Quantity: 1EA

Shipment No.: Crate# FD002013

Shipment Date: Jul,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-113"CWI609" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-113"CWI609"
SERIAL NO.: FD002013
HEAT TREAT #:RC-05-13
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jul,2019

Customer: _____

P.O. Number: **LB18-113"CWI609"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jul,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-113"CWI609"	Ball Screw Gate Valve	02040	FD002013	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
									Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
02040	BODY	118-12-027	RC-05-13	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD012013	Forging	860	4.0H	WATER	24	32	695	5.5H	AIR	/	/	/	
	BONNET	118-12-027	HC1904028	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD022002	Forging	870	4.0H	WATER	20	34	685	5.5H	AIR	/	/	/	
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD232015	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/	
	STEM	B3800409	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD042021	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	BALANCE STEM	B3800409	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD242017	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FD082016	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR	
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FD052048 FD052047	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR	

Melt No.	H.T. No.	Chemical Analysis (wt, %)														Physical Properties							
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	RC-05-13	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	702.8	648.2	23.6	58.0	68/76/74	213HB	KING-3000
118-12-027	HC1904028	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	706.0	658.8	24.2	53.8	72/68/75	214HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
B3800409	RC-06-47	0.12	0.66	0.48	0.017	0.001	12.19	0.08	/	/	/	/	/	/	/	¢0.5"x2"	QTC	710.9	645.7	23.2	59.0	76/78/69	215HB	KING-3000
B3800409	RC-06-47	0.12	0.66	0.48	0.017	0.001	12.19	0.08	/	/	/	/	/	/	/	¢0.5"x2"	QTC	710.9	645.7	23.2	59.0	76/78/69	215HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	¢0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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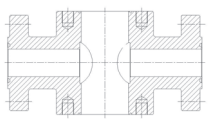
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD012013	RC-05-13	221HB/215HB 223HB/220HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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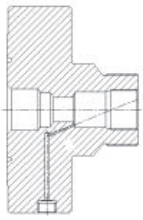
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD022002	HC1904028	213HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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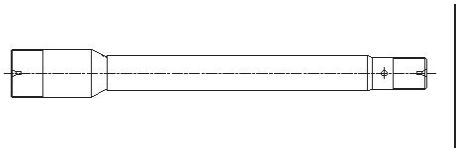
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD042021	RC-06-47	215HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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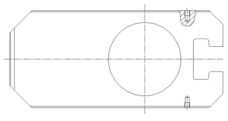
HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD082016	TXY190517-1	223HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD052048	C190528T5	219HB				
2	FD052047	C190528T5	219HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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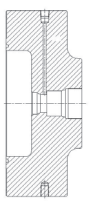
HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD232015	HC1904026	215HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD242017	RC-06-47	211HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012013	RC-05-13	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022002	HC1904028	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042021	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082016	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052048	C190528T5	Acceptable				
1	FD052047	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232015	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242017	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012013	RC-05-13	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022002	HC1904028	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042021	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082016	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052048	C190528T5	Acceptable				
2	FD052047	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232015	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242017	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FD002013	RC-05-13	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

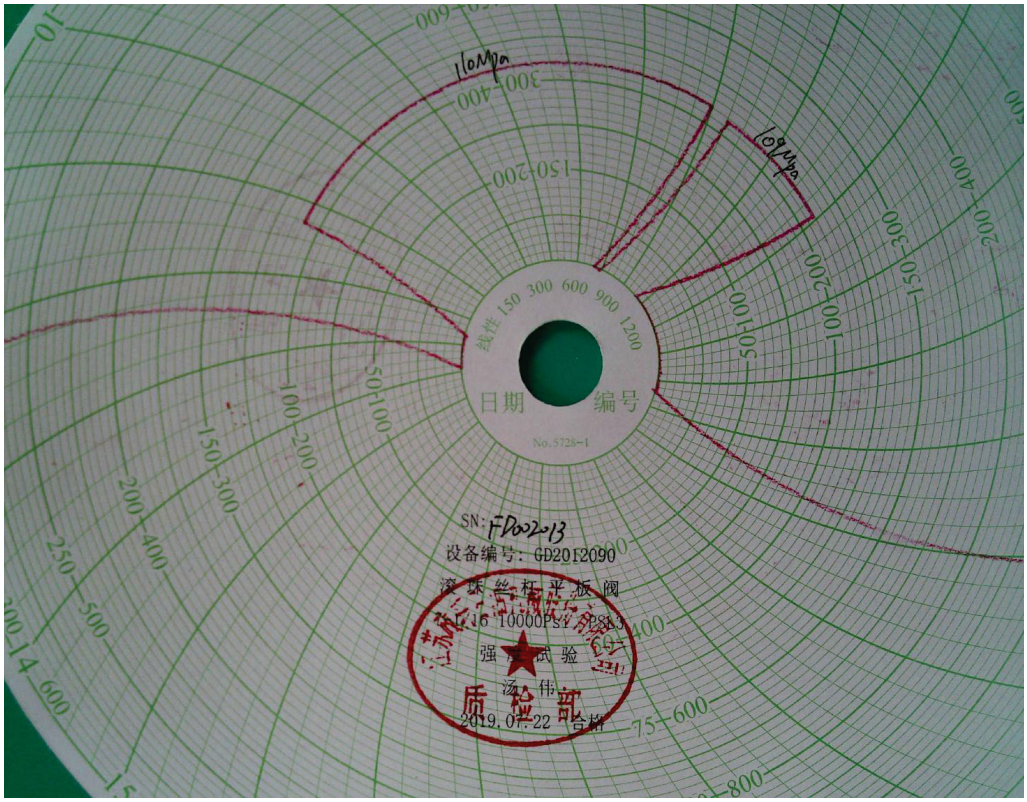
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002013	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	109.0Mpa	108.5Mpa	180S	0.5Mpa
2	110.0Mpa	108.6Mpa	900S	1.4Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

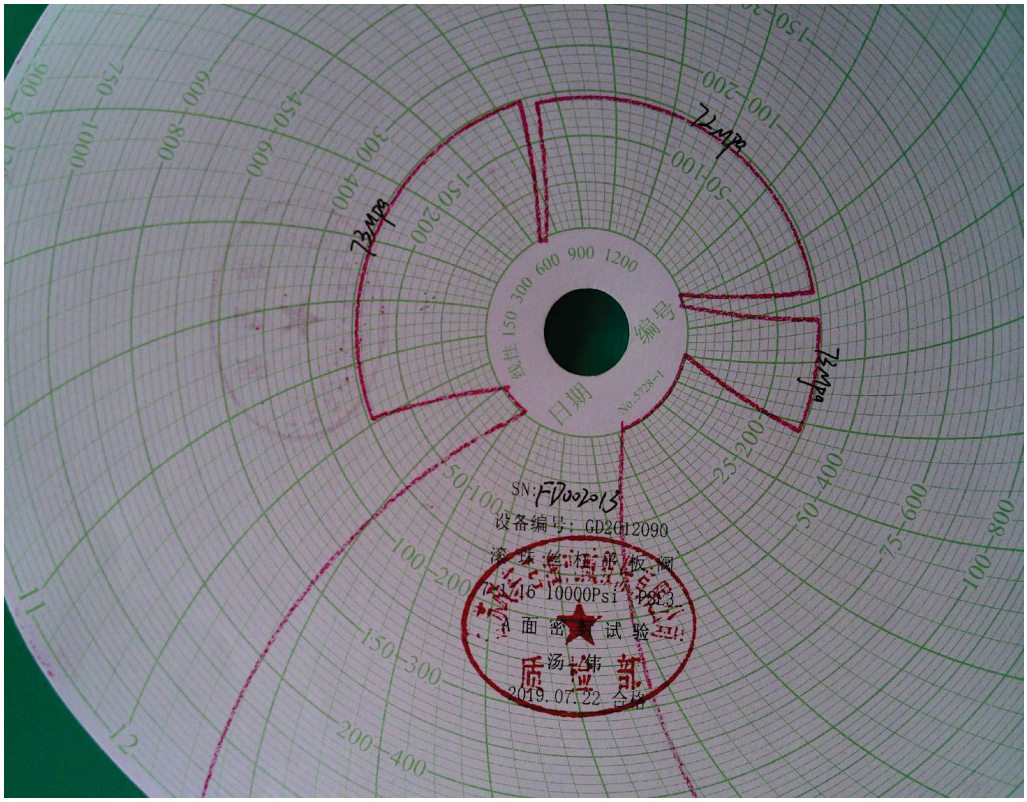
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002013	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	73.0Mpa	71.5Mpa	180S	1.5Mpa
2	72.0Mpa	71.7Mpa	900S	0.3Mpa
3	73.0Mpa	71.9Mpa	900S	1.1Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

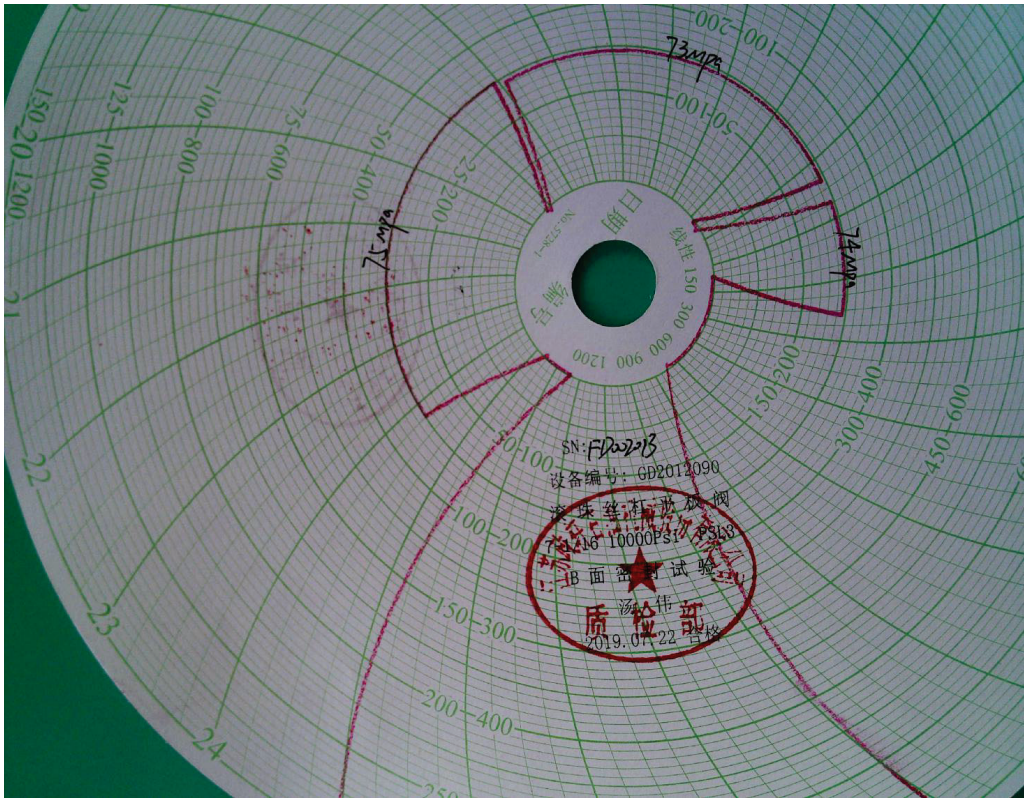
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002013	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	74.0Mpa	72.8Mpa	180S	1.2Mpa
2	73.0Mpa	72.6Mpa	900S	0.4Mpa
3	75.0Mpa	73.7Mpa	900S	1.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-113"CWI609"

Quantity: 1EA

Shipment No.: Crate# FD002014

Shipment Date: Jul,2019

Activity No.	Characteristics	Reference Page
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3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
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6	Hydrostatic Test	Page - 25-28

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-113"CWI609" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-113"CWI609"
SERIAL NO.: FD002014
HEAT TREAT #:RC-05-13
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jul,2019

Customer: _____

P.O. Number: **LB18-113"CWI609"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jul,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-113"CWI609"	Ball Screw Gate Valve	02040	FD002014	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
									Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
02040	BODY	118-12-027	RC-05-13	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD012014	Forging	860	4.0H	WATER	24	32	695	5.5H	AIR	/	/	/	
	BONNET	118-12-027	HC1904028	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD022006	Forging	870	4.0H	WATER	20	34	685	5.5H	AIR	/	/	/	
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD232016	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/	
	STEM	B3800409	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD042022	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	BALANCE STEM	B3800409	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD242016	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FD082017	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR	
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FD052039 FD052040	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR	

Chemical Analysis (wt, %)																	Physical Properties						
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	RC-05-13	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	702.8	648.2	23.6	58.0	68/76/74	213HB	KING-3000
118-12-027	HC1904028	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	706.0	658.8	24.2	53.8	72/68/75	214HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
B3800409	RC-06-47	0.12	0.66	0.48	0.017	0.001	12.19	0.08	/	/	/	/	/	/	/	¢0.5"x2"	QTC	710.9	645.7	23.2	59.0	76/78/69	215HB	KING-3000
B3800409	RC-06-47	0.12	0.66	0.48	0.017	0.001	12.19	0.08	/	/	/	/	/	/	/	¢0.5"x2"	QTC	710.9	645.7	23.2	59.0	76/78/69	215HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	¢0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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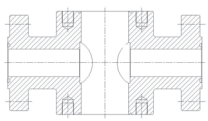
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD012014	RC-05-13	225HB/216HB 219HB/224HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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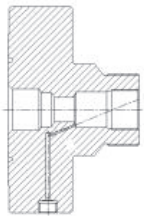
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD022006	HC1904028	226HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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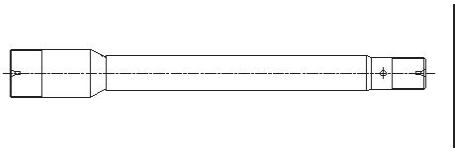
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD042022	RC-06-47	215HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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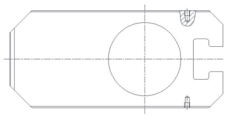
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD082017	TXY190517-1	223HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD052039	C190528T5	216HB				
2	FD052040	C190528T5	216HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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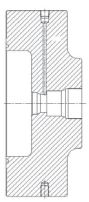
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD232016	HC1904026	213HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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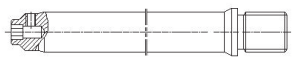
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD242016	RC-06-47	211HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012014	RC-05-13	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022006	HC1904028	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042022	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082017	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052039	C190528T5	Acceptable				
1	FD052040	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232016	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242016	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.07.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012014	RC-05-13	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022006	HC1904028	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042022	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082017	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052039	C190528T5	Acceptable				
2	FD052040	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232016	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180429-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242016	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180429-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FD002014	RC-05-13	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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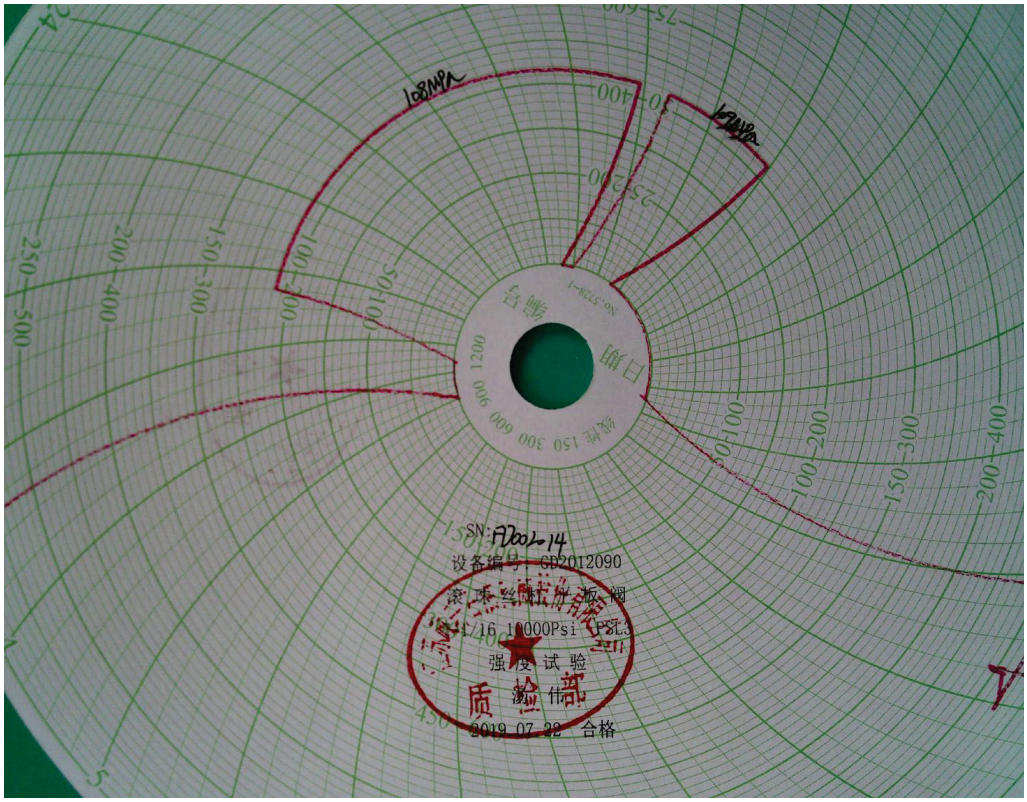
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002014	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	109.0Mpa	107.8Mpa	180S	1.2Mpa
2	108.0Mpa	107.4Mpa	900S	0.6Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

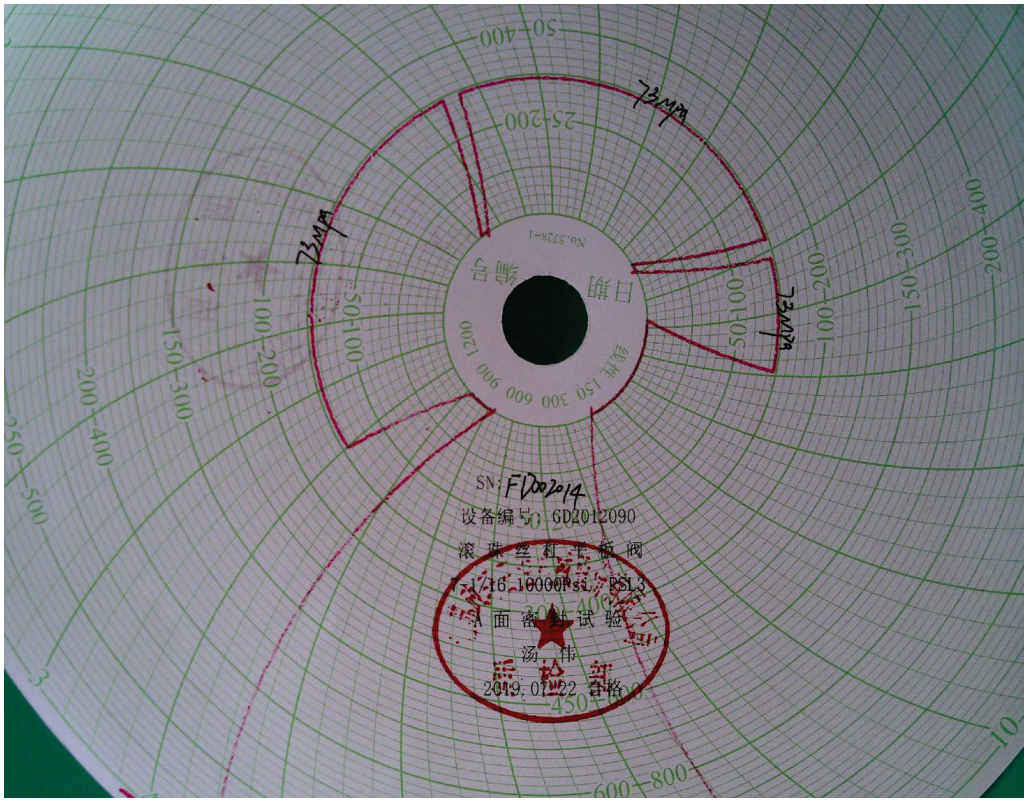
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002014	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	73.0Mpa	72.2Mpa	180S	0.8Mpa
2	73.0Mpa	72.5Mpa	900S	0.5Mpa
3	73.0Mpa	72.7Mpa	900S	0.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

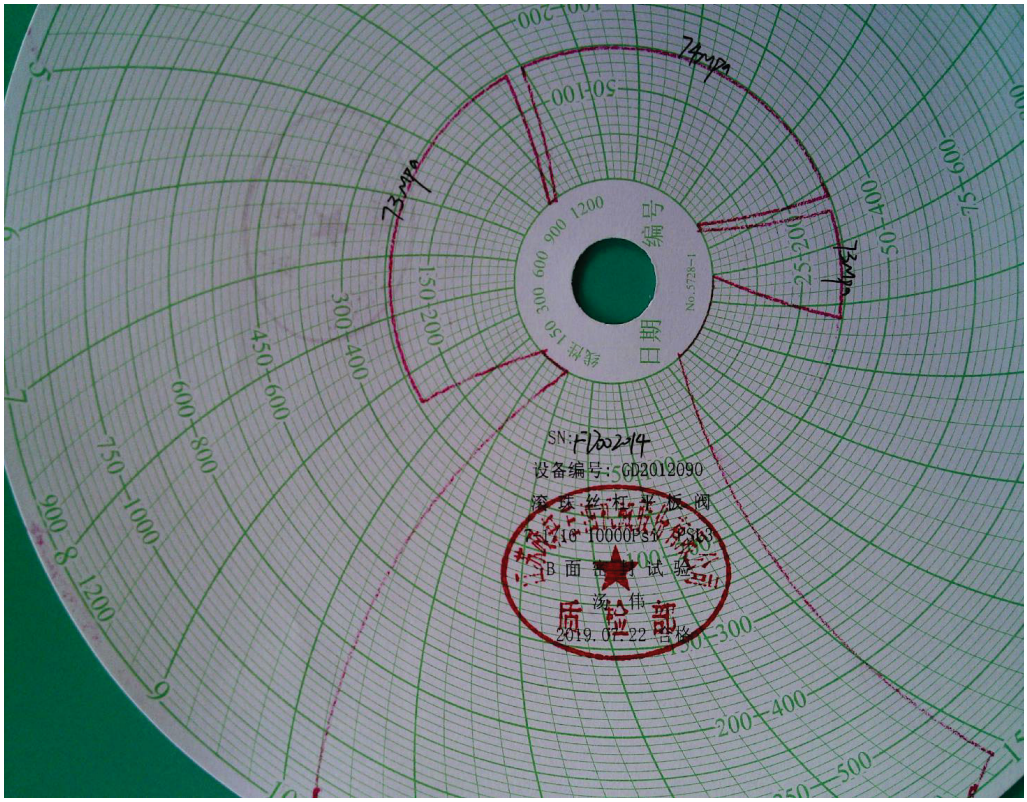
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FD002014	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	73.0Mpa	72.3Mpa	180S	0.7Mpa
2	74.0Mpa	72.6Mpa	900S	1.4Mpa
3	73.0Mpa	72.8Mpa	900S	0.2Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.22

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-113"CWI609"

Quantity: 1EA

Shipment No.: Crate# FD002053

Shipment Date: Jul,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

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CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-113"CWI609" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-113"CWI609"
SERIAL NO.: FD002053
HEAT TREAT #:HC1906002
PART NO.: 03200
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX INSPECTOR:Cong Mei Zhang

(STAMP) CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jul,2019

Customer: _____ P.O. Number: **LB18-113"CWI609"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date:Jul,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-113"CWI609"	HYDRAULIC GATE VALVE	03200	FD002053	1	7-1/16"	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
									Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
03200	BODY	118-12-027	HC1906002	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD012053	Forging	870	4.5H	WATER	22	35	685	6.0H	AIR	/	/	/	
	BONNET	118-12-027	RC-04-83	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD022057	Forging	860	3.0H	WATER	24	30	700	5.0H	AIR	/	/	/	
	TAIL BONNET	118-12-027	RC-04-97	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD232053	Forging	860	4.25H	WATER	26	33	695	6.0H	AIR	/	/	/	
	STEM	1170-1806	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD042053	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	BALANCE STEM	1170-1806	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD242055	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FD082060	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR	
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FD052053 FD052059	Bar	1020	2.5H	OIL	32	33	690	3.0H	AIR	660	3.0H	AIR	

Melt No.	H.T. No.	Chemical Analysis (wt, %)													Physical Properties								
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	HC1906002	0.330	0.490	0.220	0.022	0.006	0.88	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	706.9	655.5	25.4	57.0	77/65/80	214HB	KING-3000
118-12-027	RC-04-83	0.330	0.490	0.220	0.022	0.006	0.88	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	720.9	604.9	20.6	64.0	64/70/75	218HB	KING-3000
118-12-027	RC-04-97	0.330	0.490	0.220	0.022	0.006	0.88	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	704.4	600.1	25.4	57.0	75/73/80	213HB	KING-3000
1170-1806	RC-06-47	0.11	0.305	0.36	0.025	0.003	11.75	0.18	/	/	/	/	/	/	/	¢0.5"x2"	QTC	762.3	659.6	25.0	60.1	79/62/80	231HB	KING-3000
1170-1806	RC-06-47	0.11	0.305	0.36	0.025	0.003	11.75	0.18	/	/	/	/	/	/	/	¢0.5"x2"	QTC	762.3	659.6	25.0	60.1	79/62/80	231HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.0	599.0	29.0	56.0	68/72/78	207HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.003	11.70	0.27	/	/	/	/	/	/	/	¢0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/28/32	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16"10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GAUGED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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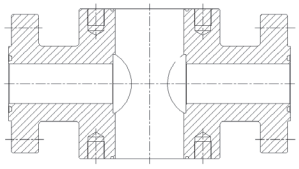
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD012053	HC1906002	207HB/213HB 209HB/216HB				

Sketch:



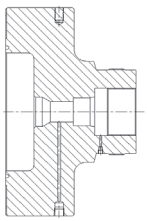
Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD022057	RC-04-83	214HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-3
Part No.:	02331	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD042053	RC-06-47	210HB				

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Sketch:

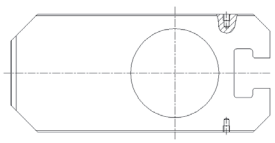
Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-4
Part No.:	02242	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD082060	TXY190517-1	224HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD052053	C190528T5	201HB				
2	FD052059	C190528T5	204HB				

Sketch:

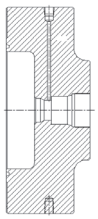
Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD232053	RC-04-97	207HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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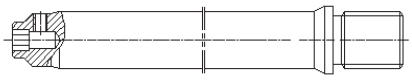
HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD242055	RC-06-47	213 HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012053	HC1906002	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022057	RC-04-83	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-3
Part No.:	02331	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042053	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-4
Part No.:	02242	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082060	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052053	C190528T5	Acceptable				
1	FD052059	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232053	RC-04-97	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242055	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P¢14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012053	HC1906002	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16" 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022057	RC-04-83	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-3
Part No.:	02331	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042053	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-4
Part No.:	02242	Material:	410			Coating:	/
Description:	7-1/16" 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082060	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16" 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052053	C190528T5	Acceptable				
2	FD052059	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16" 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232053	RC-04-97	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16" 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242055	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16" 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FD002053	HC1906002	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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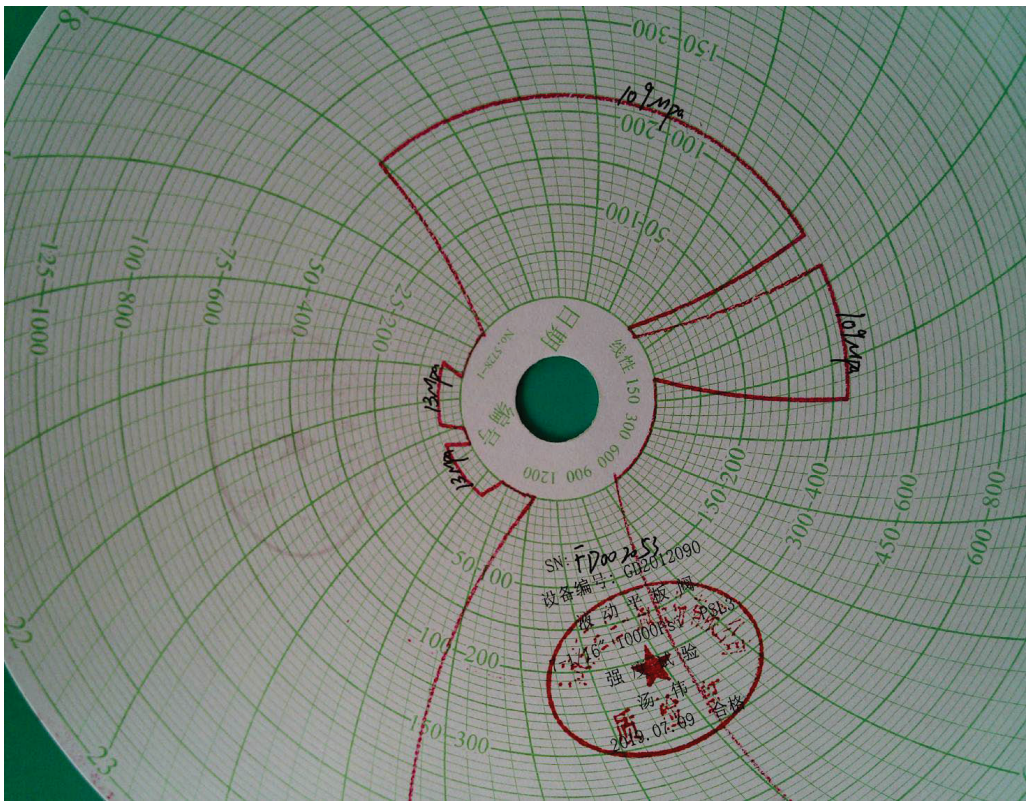
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	FD002053	7-1/16" 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	109.0Mpa	107.6Mpa	180S	1.4Mpa
2	109.0Mpa	107.8Mpa	900S	1.2Mpa
3	13.0Mpa	12.5Mpa	300S	0.5Mpa
4	13.0Mpa	12.7Mpa	300S	0.3Mpa



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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.09

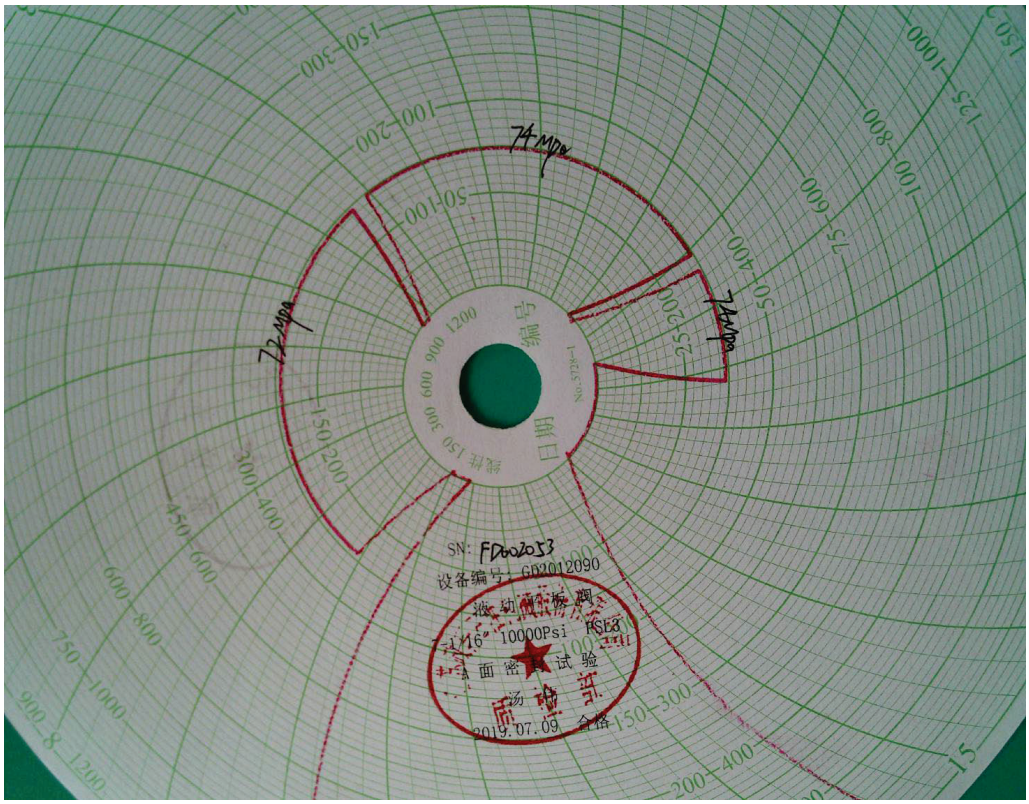
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	FD002053	7-1/16" 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	74.0Mpa	72.5Mpa	180S	1.5Mpa
2	74.0Mpa	72.9Mpa	900S	1.1Mpa
3	72.0Mpa	71.8Mpa	900S	0.2Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.09

Pressure Test Report

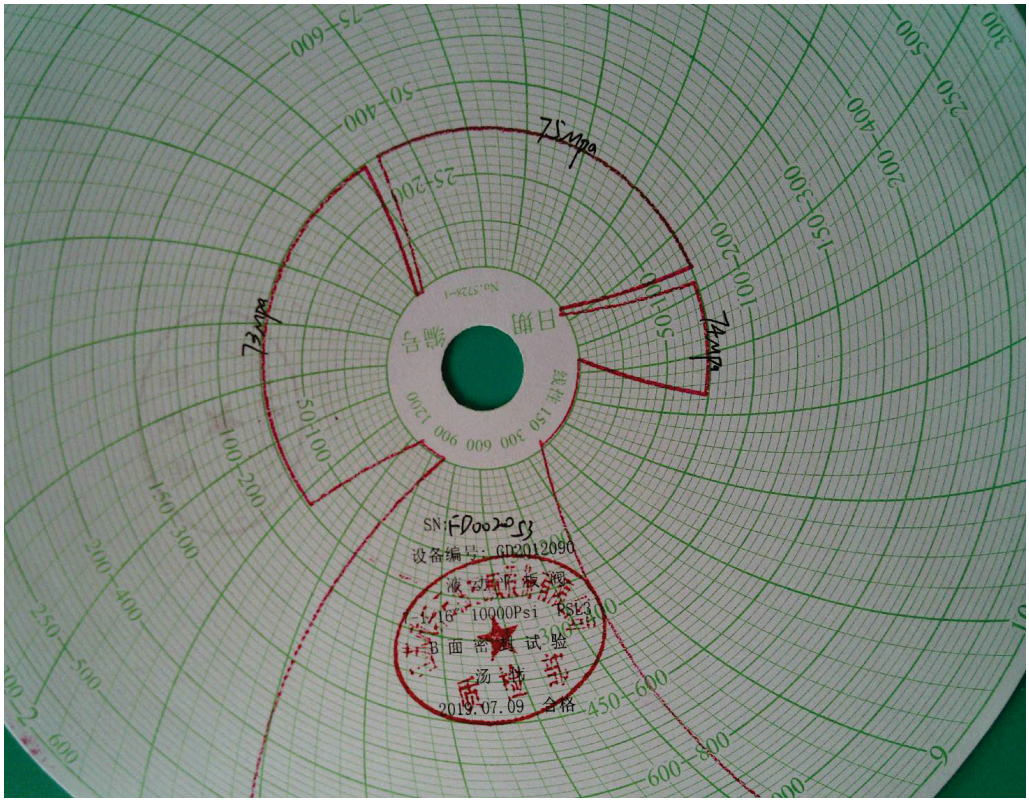
Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	FD002053	7-1/16" 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	74.0Mpa	73.1Mpa	180S	0.9Mpa

2	75.0Mpa	73.7Mpa	900S	1.3Mpa
3	73.0Mpa	72.3Mpa	900S	0.7Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.09

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-113"CWI609"

Quantity: 1EA

Shipment No.: Crate# FD002054

Shipment Date: Jul,2019

Activity No.	Characteristics	Reference Page
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3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-113"CWI609" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-113"CWI609"
SERIAL NO.: FD002054
HEAT TREAT #:HC1906002
PART NO.: 03200
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX INSPECTOR:Cong Mei Zhang

(STAMP) CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jul,2019

Customer: _____ P.O. Number: **LB18-113"CWI609"**

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No.: AV00012

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

Date:Jul,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-113"CWI609"	HYDRAULIC GATE VALVE	03200	FD002054	1	7-1/16"	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
									Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
03200	BODY	118-12-027	HC1906002	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD012054	Forging	870	4.5H	WATER	22	35	685	6.0H	AIR	/	/	/	
	BONNET	118-12-027	RC-04-83	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD022061	Forging	860	3.0H	WATER	24	30	700	5.0H	AIR	/	/	/	
	TAIL BONNET	118-12-027	RC-04-97	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD232062	Forging	860	4.25H	WATER	26	33	695	6.0H	AIR	/	/	/	
	STEM	1170-1806	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD042051	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	BALANCE STEM	1170-1806	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD242056	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FD082062	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR	
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FD052071 FD052068	Bar	1020	2.5H	OIL	32	33	690	3.0H	AIR	660	3.0H	AIR	

Melt No.	H.T. No.	Chemical Analysis (wt, %)													Physical Properties								
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	HC1906002	0.330	0.490	0.220	0.022	0.006	0.88	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	706.9	655.5	25.4	57.0	77/65/80	214HB	KING-3000
118-12-027	RC-04-83	0.330	0.490	0.220	0.022	0.006	0.88	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	720.9	604.9	20.6	64.0	64/70/75	218HB	KING-3000
118-12-027	RC-04-97	0.330	0.490	0.220	0.022	0.006	0.88	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	704.4	600.1	25.4	57.0	75/73/80	213HB	KING-3000
1170-1806	RC-06-47	0.11	0.305	0.36	0.025	0.003	11.75	0.18	/	/	/	/	/	/	/	¢0.5"x2"	QTC	762.3	659.6	25.0	60.1	79/62/80	231HB	KING-3000
1170-1806	RC-06-47	0.11	0.305	0.36	0.025	0.003	11.75	0.18	/	/	/	/	/	/	/	¢0.5"x2"	QTC	762.3	659.6	25.0	60.1	79/62/80	231HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.0	599.0	29.0	56.0	68/72/78	207HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.003	11.70	0.27	/	/	/	/	/	/	/	¢0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/28/32	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16"10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GAUGED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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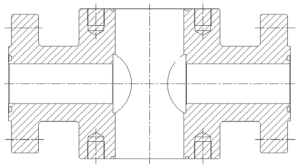
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD012054	HC1906002	207HB/215HB 211HB/208HB				

Sketch:



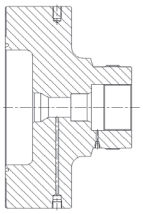
Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD022061	RC-04-83	213HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-3
Part No.:	02331	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD042051	RC-06-47	210HB				

Sketch:

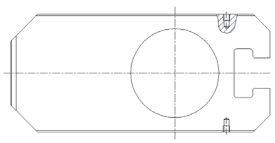
Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-4
Part No.:	02242	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD082062	TXY190517-1	229HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD052071	C190528T5	213HB				
2	FD052068	C190528T5	209HB				

Sketch:

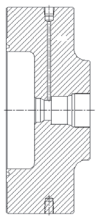
Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD232062	RC-04-97	222HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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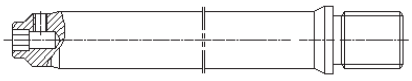
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD242056	RC-06-47	213 HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012054	HC1906002	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022061	RC-04-83	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-3
Part No.:	02331	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042051	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-4
Part No.:	02242	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082062	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052071	C190528T5	Acceptable				
1	FD052068	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232062	RC-04-97	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242056	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P¢14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012054	HC1906002	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16" 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022061	RC-04-83	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-3
Part No.:	02331	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042051	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-4
Part No.:	02242	Material:	410			Coating:	/
Description:	7-1/16" 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082062	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16" 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052071	C190528T5	Acceptable				
2	FD052068	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16" 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232062	RC-04-97	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16" 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242056	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16" 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FD002054	HC1906002	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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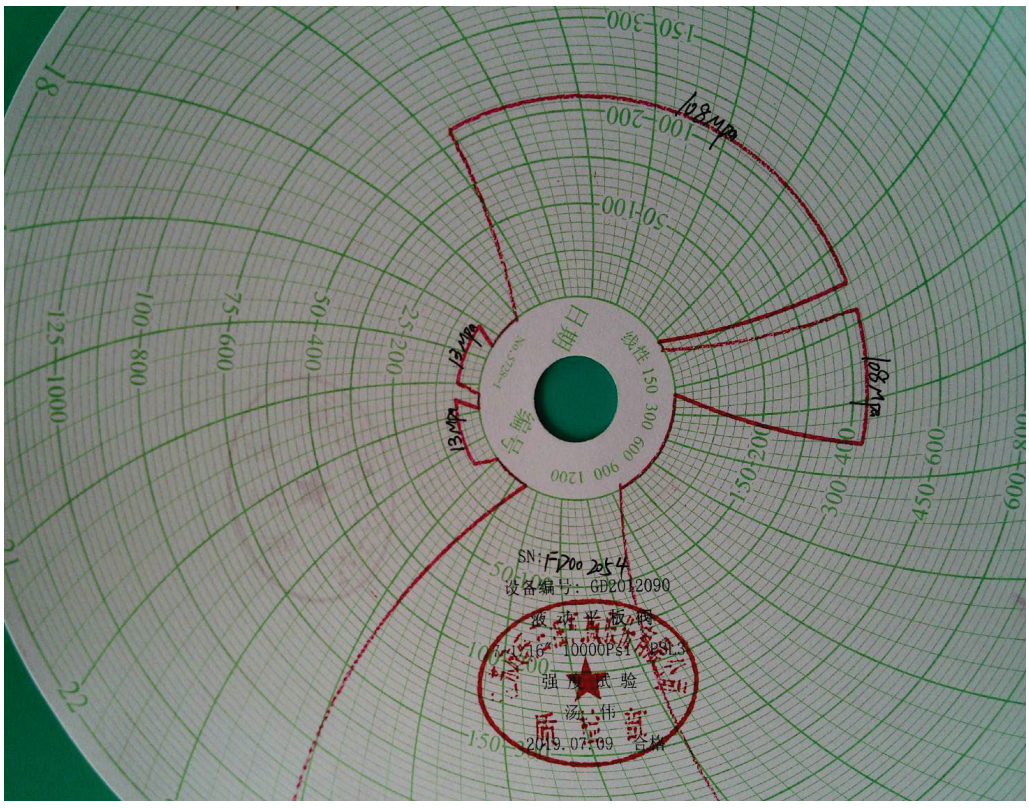
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	FD002054	7-1/16" 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	108.0Mpa	106.7Mpa	180S	1.3Mpa
2	108.0Mpa	106.9Mpa	900S	1.1Mpa
3	13.0Mpa	12.6Mpa	300S	0.4Mpa
4	13.0Mpa	12.8Mpa	300S	0.2Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.09

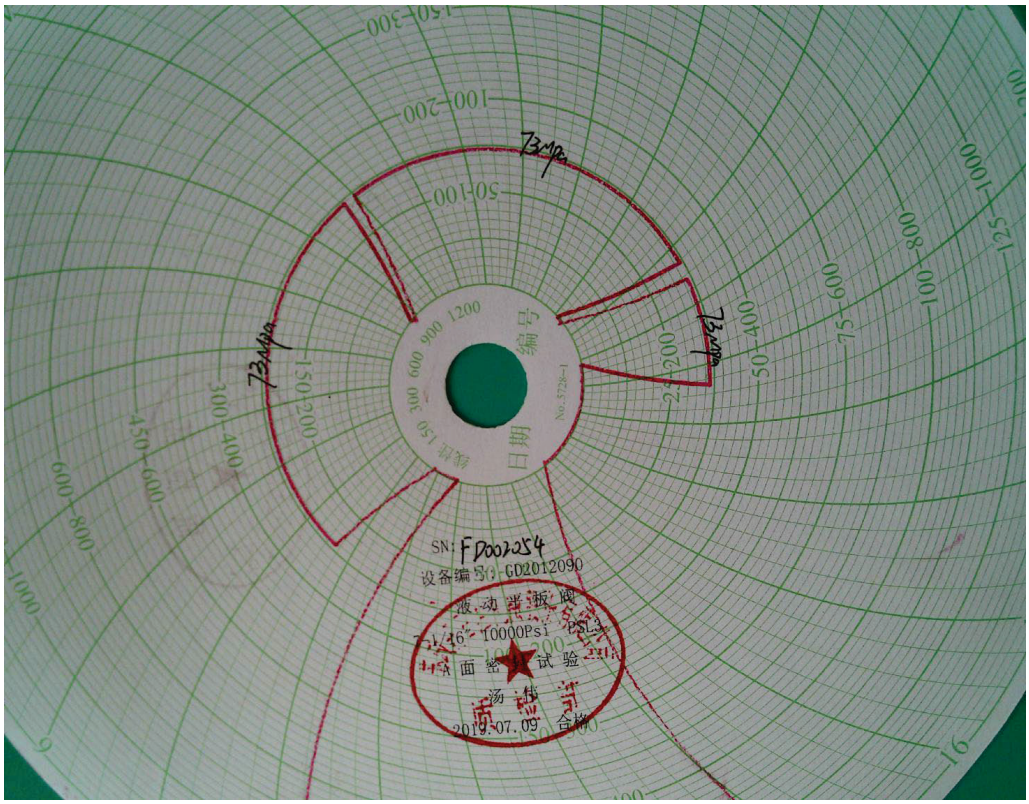
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	FD002054	7-1/16" 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	73.0Mpa	72.1Mpa	180S	0.9Mpa
2	73.0Mpa	72.3Mpa	900S	0.7Mpa
3	73.0Mpa	72.5Mpa	900S	0.5Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.09

Pressure Test Report

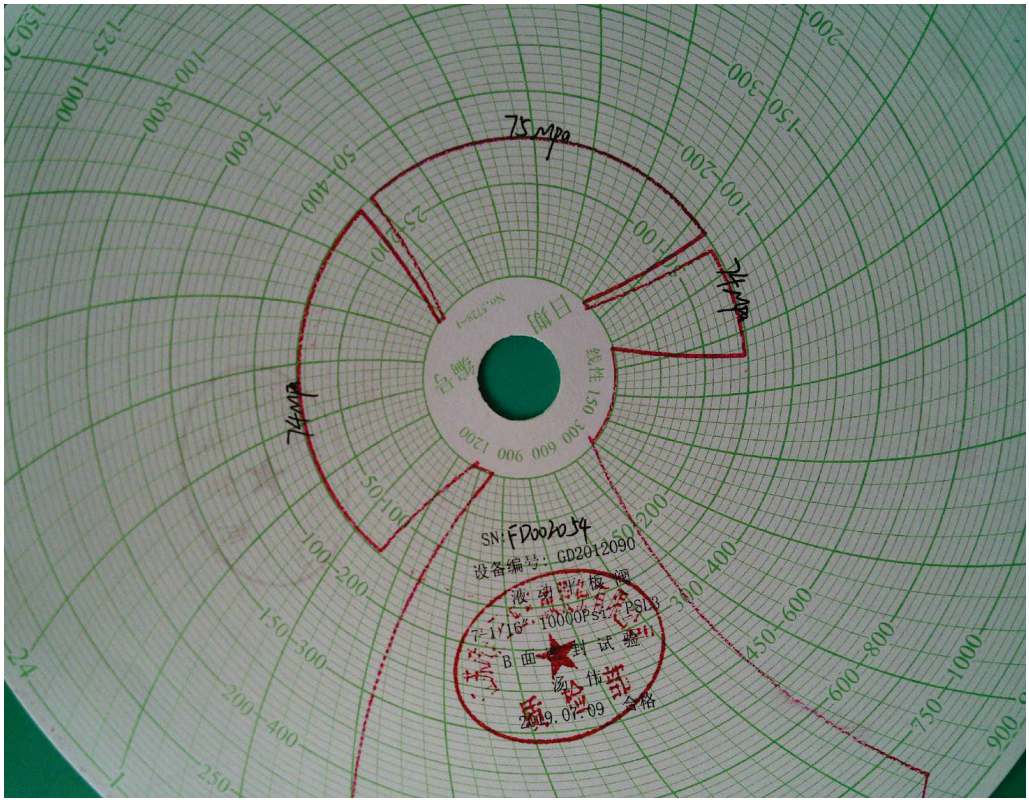
Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	FD002054	7-1/16" 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	74.0Mpa	73.4Mpa	180S	0.6Mpa

2	75.0Mpa	73.8Mpa	900S	1.2Mpa
3	74.0Mpa	73.7Mpa	900S	0.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.09

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-113"CWI609"

Quantity: 1EA

Shipment No.: Crate# FD002055

Shipment Date: Jul,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

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CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-113"CWI609" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-113"CWI609"
SERIAL NO.: FD002055
HEAT TREAT #:HC1906008
PART NO.: 03200
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX INSPECTOR:Cong Mei Zhang

(STAMP) CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jul,2019

Customer: _____ P.O. Number: **LB18-113"CWI609"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date:Jul,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-113"CWI609"	HYDRAULIC GATE VALVE	03200	FD002055	1	7-1/16"	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
									Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
03200	BODY	118-12-027	HC1906008	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD012055	Forging	870	4.5H	WATER	21	36	685	6.0H	AIR	/	/	/	
	BONNET	118-12-027	RC-04-83	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD022052	Forging	860	4.5H	WATER	24	30	700	5.0H	AIR	/	/	/	
	TAIL BONNET	118-12-027	RC-04-97	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD232054	Forging	860	4.25H	WATER	26	33	695	6.0H	AIR	/	/	/	
	STEM	1170-1806	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD042055	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	BALANCE STEM	1170-1806	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD242053	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FD082061	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR	
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FD052056 FD052058	Bar	1020	2.5H	OIL	32	33	690	3.0H	AIR	660	3.0H	AIR	

Melt No.	H.T. No.	Chemical Analysis (wt, %)													Physical Properties								
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	HC1906008	0.330	0.490	0.220	0.022	0.006	0.88	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	707.7	602.5	20.4	65.0	73/70/66	214HB	KING-3000
118-12-027	RC-04-83	0.330	0.490	0.220	0.022	0.006	0.88	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	720.9	604.9	20.6	64.0	64/70/75	218HB	KING-3000
118-12-027	RC-04-97	0.330	0.490	0.220	0.022	0.006	0.88	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	704.4	600.1	25.4	57.0	75/73/80	213HB	KING-3000
1170-1806	RC-06-47	0.11	0.305	0.36	0.025	0.003	11.75	0.18	/	/	/	/	/	/	/	¢0.5"x2"	QTC	762.3	659.6	25.0	60.1	79/62/80	231HB	KING-3000
1170-1806	RC-06-47	0.11	0.305	0.36	0.025	0.003	11.75	0.18	/	/	/	/	/	/	/	¢0.5"x2"	QTC	762.3	659.6	25.0	60.1	79/62/80	231HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.0	599.0	29.0	56.0	68/72/78	207HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.003	11.70	0.27	/	/	/	/	/	/	/	¢0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/28/32	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16"10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GAUGED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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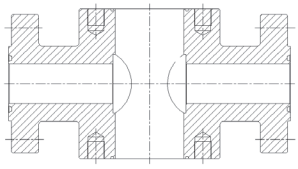
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD012055	HC1906008	214HB/211HB 205HB/212HB				

Sketch:



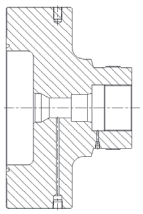
Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD022052	RC-04-83	218HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-3
Part No.:	02331	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD042055	RC-06-47	210HB				

Sketch:

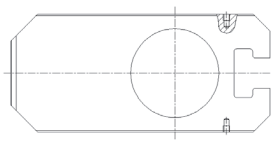
Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-4
Part No.:	02242	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD082061	TXY190517-1	228HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD052056	C190528T5	201HB				
2	FD052058	C190528T5	204HB				

Sketch:

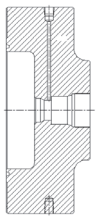
Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD232054	RC-04-97	219HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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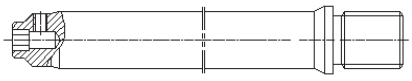
HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD242053	RC-06-47	213 HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012055	HC1906008	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022052	RC-04-83	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-3
Part No.:	02331	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042055	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-4
Part No.:	02242	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082061	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052056	C190528T5	Acceptable				
1	FD052058	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232054	RC-04-97	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242053	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P¢14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012055	HC1906008	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16" 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022052	RC-04-83	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-3
Part No.:	02331	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042055	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-4
Part No.:	02242	Material:	410			Coating:	/
Description:	7-1/16" 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082061	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16" 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052056	C190528T5	Acceptable				
2	FD052058	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16" 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232054	RC-04-97	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16" 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242053	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16" 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FD002055	HC1906008	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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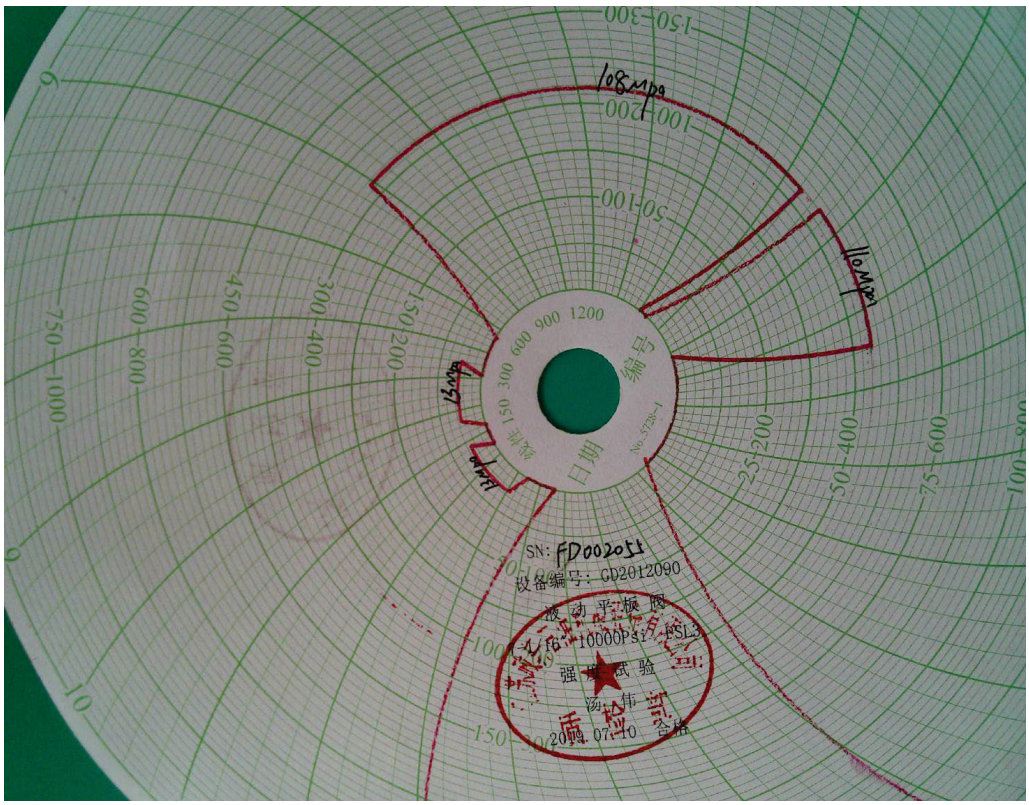
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	FD002055	7-1/16" 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	110.0Mpa	108.6Mpa	180S	1.4Mpa
2	108.0Mpa	106.8Mpa	900S	1.2Mpa
3	13.0Mpa	12.5Mpa	300S	0.5Mpa
4	13.0Mpa	12.7Mpa	300S	0.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.10

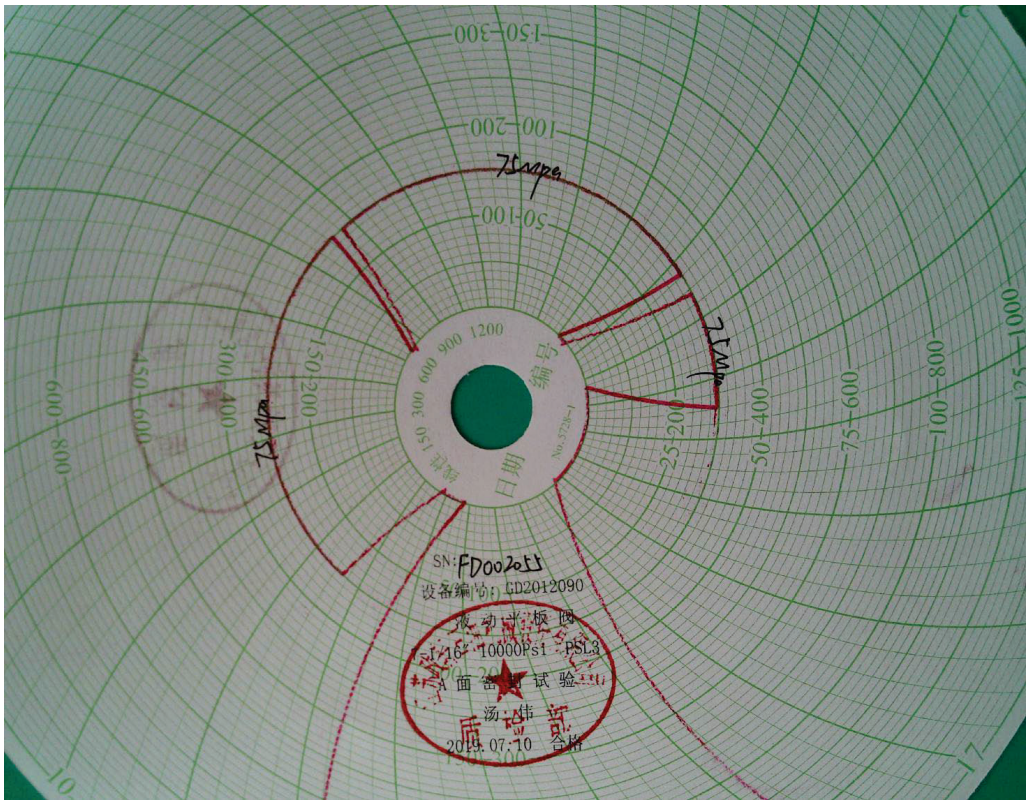
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	FD002055	7-1/16" 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	75.0Mpa	74.2Mpa	180S	0.8Mpa
2	75.0Mpa	74.4Mpa	900S	0.6Mpa
3	75.0Mpa	74.6Mpa	900S	0.4Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.10

Pressure Test Report

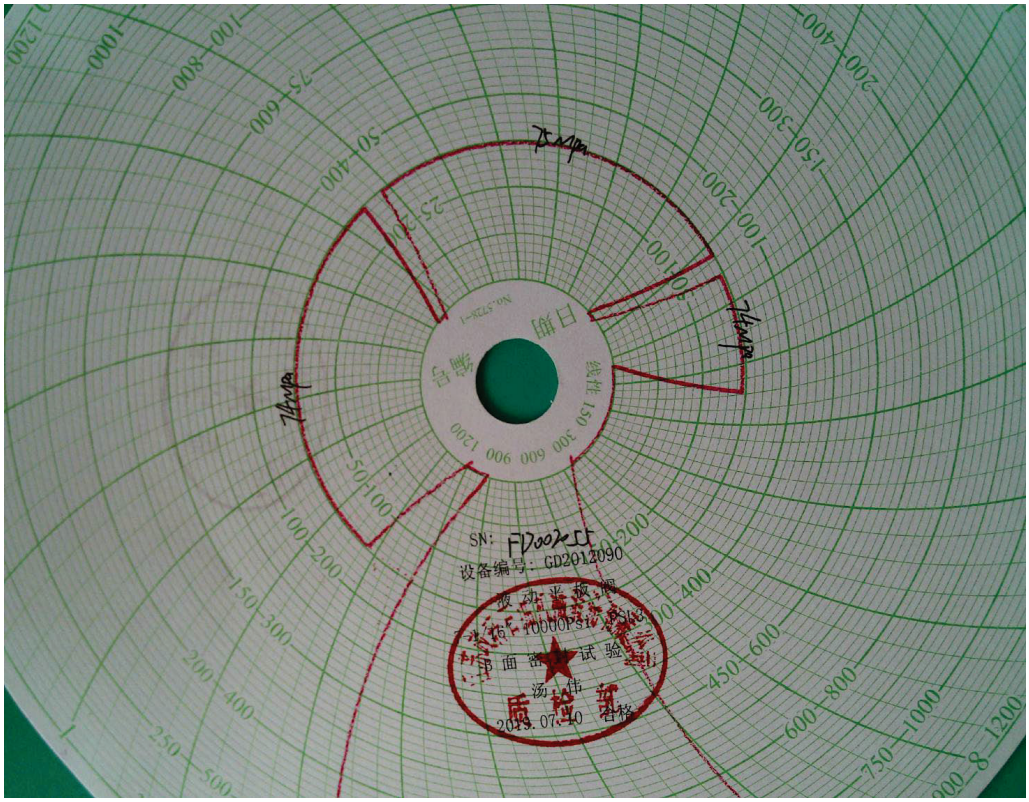
Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	FD002055	7-1/16" 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	74.0Mpa	73.8Mpa	180S	0.2Mpa

2	75.0Mpa	73.7Mpa	900S	1.3Mpa
3	74.0Mpa	73.1Mpa	900S	0.9Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.10

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-113"CWI609"

Quantity: 1EA

Shipment No.: Crate# FD002057

Shipment Date: Jul,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

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CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-113"CWI609" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-113"CWI609"
SERIAL NO.: FD002057
HEAT TREAT #:HC1906008
PART NO.: 03200
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX INSPECTOR:Cong Mei Zhang

(STAMP) CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jul,2019

Customer: _____ P.O. Number: **LB18-113"CWI609"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date:Jul,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-113"CWI609"	HYDRAULIC GATE VALVE	03200	FD002057	1	7-1/16"	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
									Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
03200	BODY	118-12-027	HC1906008	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD012057	Forging	870	4.5H	WATER	21	36	685	6.0H	AIR	/	/	/	
	BONNET	118-12-027	RC-04-83	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD022054	Forging	860	4.5H	WATER	24	30	700	5.0H	AIR	/	/	/	
	TAIL BONNET	118-12-027	RC-04-97	AISI 4130 75K	ASTMA29 -A29M-2016	1	FD232061	Forging	860	4.25H	WATER	26	33	695	6.0H	AIR	/	/	/	
	STEM	1170-1806	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD042057	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	BALANCE STEM	1170-1806	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FD242051	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FD082056	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR	
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FD052062 FD052070	Bar	1020	2.5H	OIL	32	33	690	3.0H	AIR	660	3.0H	AIR	

Melt No.	H.T. No.	Chemical Analysis (wt, %)													Physical Properties								
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	HC1906008	0.330	0.490	0.220	0.022	0.006	0.88	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	707.7	602.5	20.4	65.0	73/70/66	214HB	KING-3000
118-12-027	RC-04-83	0.330	0.490	0.220	0.022	0.006	0.88	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	720.9	604.9	20.6	64.0	64/70/75	218HB	KING-3000
118-12-027	RC-04-97	0.330	0.490	0.220	0.022	0.006	0.88	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	704.4	600.1	25.4	57.0	75/73/80	213HB	KING-3000
1170-1806	RC-06-47	0.11	0.305	0.36	0.025	0.003	11.75	0.18	/	/	/	/	/	/	/	¢0.5"x2"	QTC	762.3	659.6	25.0	60.1	79/62/80	231HB	KING-3000
1170-1806	RC-06-47	0.11	0.305	0.36	0.025	0.003	11.75	0.18	/	/	/	/	/	/	/	¢0.5"x2"	QTC	762.3	659.6	25.0	60.1	79/62/80	231HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.0	599.0	29.0	56.0	68/72/78	207HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.003	11.70	0.27	/	/	/	/	/	/	/	¢0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/28/32	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16"10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GAUGED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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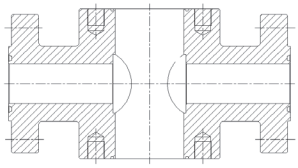
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD012057	HC1906008	223HB/218HB 221HB/215HB				

Sketch:



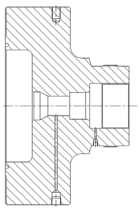
Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD022054	RC-04-83	217HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-3
Part No.:	02331	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD042057	RC-06-47	215HB				

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

Sketch:

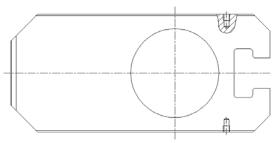
Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-4
Part No.:	02242	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD082056	TXY190517-1	220HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD052062	C190528T5	204HB				
2	FD052070	C190528T5	213HB				

Sketch:

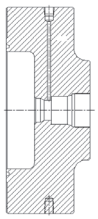
Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD232061	RC-04-97	215HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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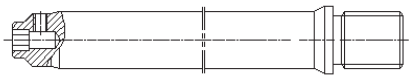
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	Jul,2019
Drawing #:	03200	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H190221-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FD242051	RC-06-47	213 HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012057	HC1906008	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022054	RC-04-83	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-3
Part No.:	02331	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042057	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-4
Part No.:	02242	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082056	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052062	C190528T5	Acceptable				
1	FD052070	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232061	RC-04-97	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT190221-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242051	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P¢14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD012057	HC1906008	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16" 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD022054	RC-04-83	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-3
Part No.:	02331	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD042057	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-4
Part No.:	02242	Material:	410			Coating:	/
Description:	7-1/16" 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD082056	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16" 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD052062	C190528T5	Acceptable				
2	FD052070	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16" 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD232061	RC-04-97	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT190221-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16" 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FD242051	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.07

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-113"CWI609"		Date:	2019.07
Drawing #:	03200	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT190221-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16" 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FD002057	HC1906008	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

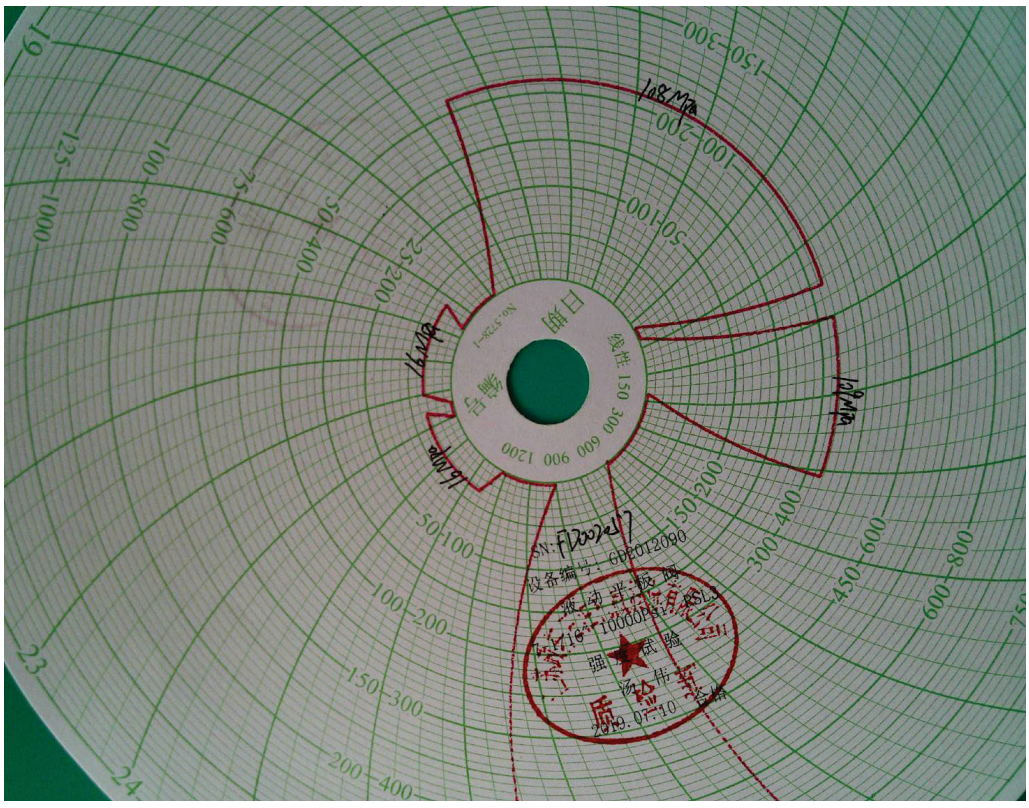
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	FD002057	7-1/16" 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	109.0Mpa	107.7Mpa	180S	1.3Mpa
2	108.0Mpa	106.9Mpa	900S	1.1Mpa
3	16.0Mpa	15.5Mpa	300S	0.5Mpa
4	16.0Mpa	15.7Mpa	300S	0.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.10

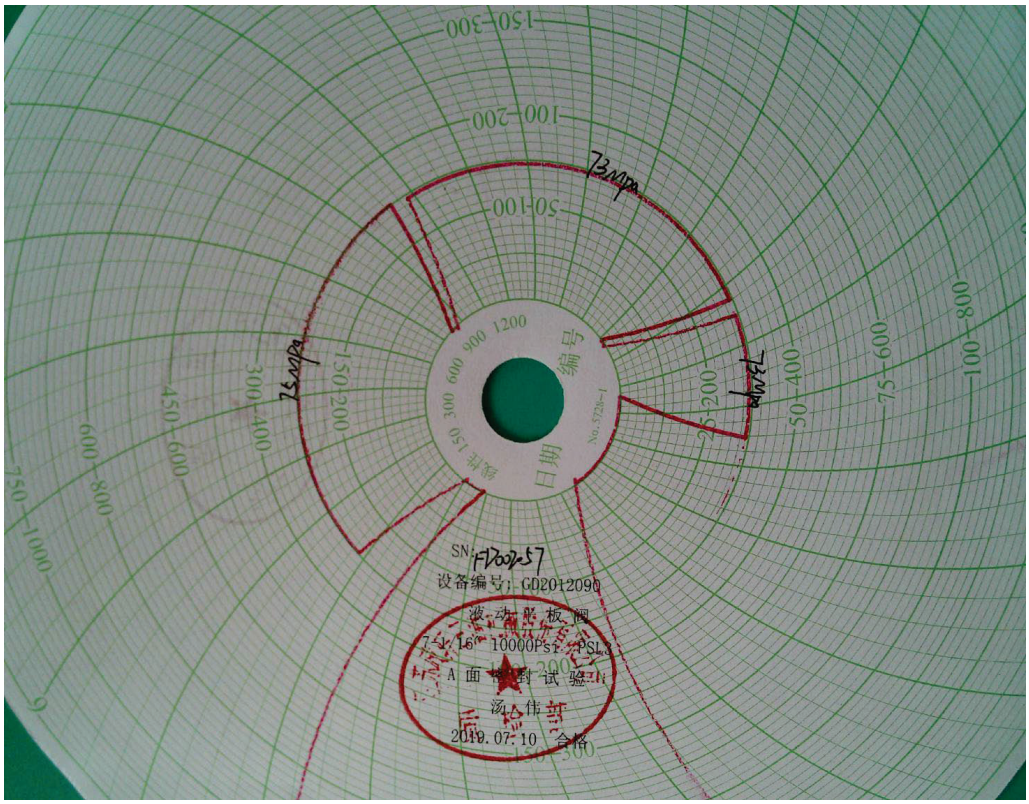
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	FD002057	7-1/16" 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	73.0Mpa	72.8Mpa	180S	0.2Mpa
2	73.0Mpa	72.3Mpa	900S	0.7Mpa
3	75.0Mpa	73.5Mpa	900S	1.5Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.10

Pressure Test Report

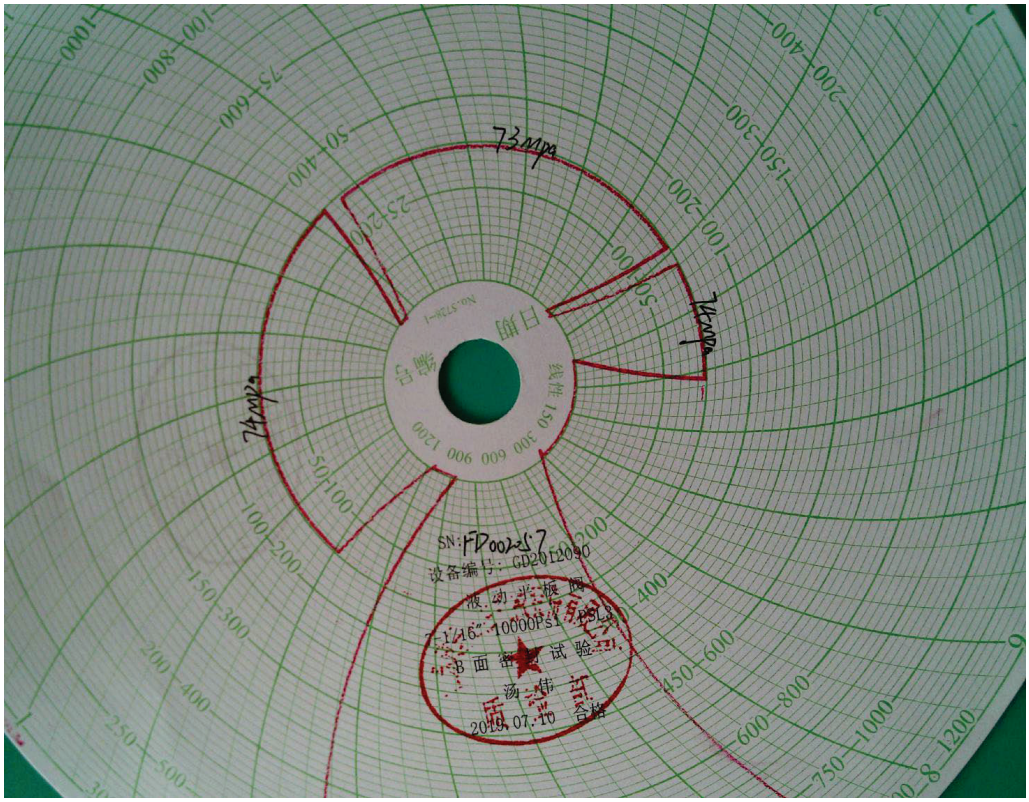
Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	FD002057	7-1/16" 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	74.0Mpa	72.6Mpa	180S	1.4Mpa

2	73.0Mpa	72.6Mpa	900S	0.4Mpa
3	74.0Mpa	72.8Mpa	900S	1.2Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.07.10

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-076"CMI585"

Quantity: 1EA

Shipment No.: Crate# FE00323

Shipment Date: Jun,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-076"CMI585" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-076"CMI585"
SERIAL NO.: FE00323
HEAT TREAT #:HC1905015
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jun,2019

Customer: _____

P.O. Number: **LB18-076"CMI585"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jun,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-076"CMI585"	Ball Screw Gate Valve	02040	FE00323	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Austenized		Quenched			Temper(1)			Temper(2)			
									Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
02040	BODY	118-12-027	HC1905015	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE01323	Forging	870	4.5H	WATER	22	37	685	5.5H	AIR	/	/	/	
	BONNET	118-12-027	RC-05-11	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE02326	Forging	860	4.0H	WATER	26	32	700	5.5H	AIR	/	/	/	
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE23338	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/	
	STEM	17114056775	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE04329	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	BALANCE STEM	872K1223	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE24326	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FE08332	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR	
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FE05347 FE05337	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR	

Melt No.	H.T. No.	Chemical Analysis (wt, %)														Physical Properties							
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	HC1905015	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	Ø0.5"x2"	QTC	708.5	604.1	21.6	64.0	79/74/62	215HB	KING-3000
118-12-027	RC-05-11	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	Ø0.5"x2"	QTC	750.9	655.5	25.4	57.0	80/63/60	228HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	Ø0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
17114056775	RC-06-47	0.14	0.44	0.46	0.022	0.004	12.54	0.10	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	719.1	662.8	23.6	62.1	65/66/70	218HB	KING-3000
872K1223	RC-06-47	0.12	0.50	0.43	0.029	0.001	12.27	0.13	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	747.6	679.9	25.6	61.1	66/72/79	227HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

江 苏 政 轩 石 油 机 械 股 份 有 限 公 司

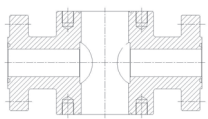
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE01323	HC1905015	221HB/218HB 223HB/219HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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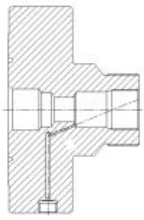
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE02326	RC-05-11	226HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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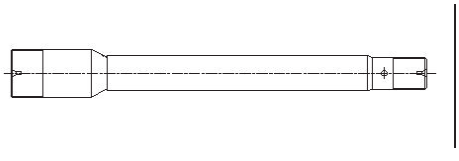
HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE04329	RC-06-47	223HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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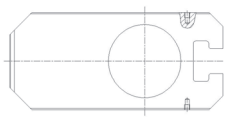
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE08332	TXY190517-1	225HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE05347	C190528T5	225HB				
2	FE05337	C190528T5	217HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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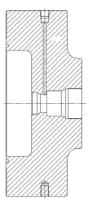
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE23338	HC1904026	224HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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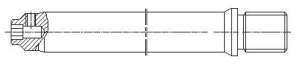
HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE24326	RC-06-47	210HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01323	HC1905015	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02326	RC-05-11	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04329	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08332	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05347	C190528T5	Acceptable				
1	FE05337	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23338	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24326	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01323	HC1905015	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02326	RC-05-11	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04329	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08332	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05347	C190528T5	Acceptable				
2	FE05337	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23338	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.04

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24326	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FE00323	HC1905015	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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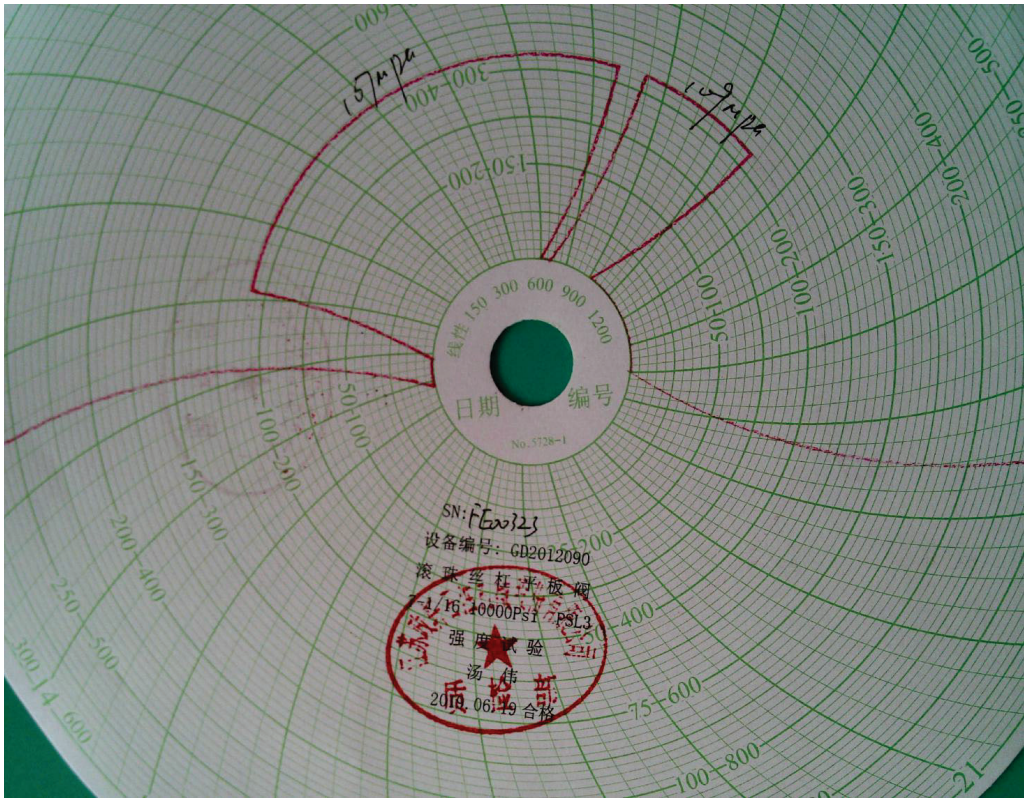
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00323	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	109.0Mpa	107.6Mpa	180S	1.4Mpa
2	107.0Mpa	106.5Mpa	900S	0.5Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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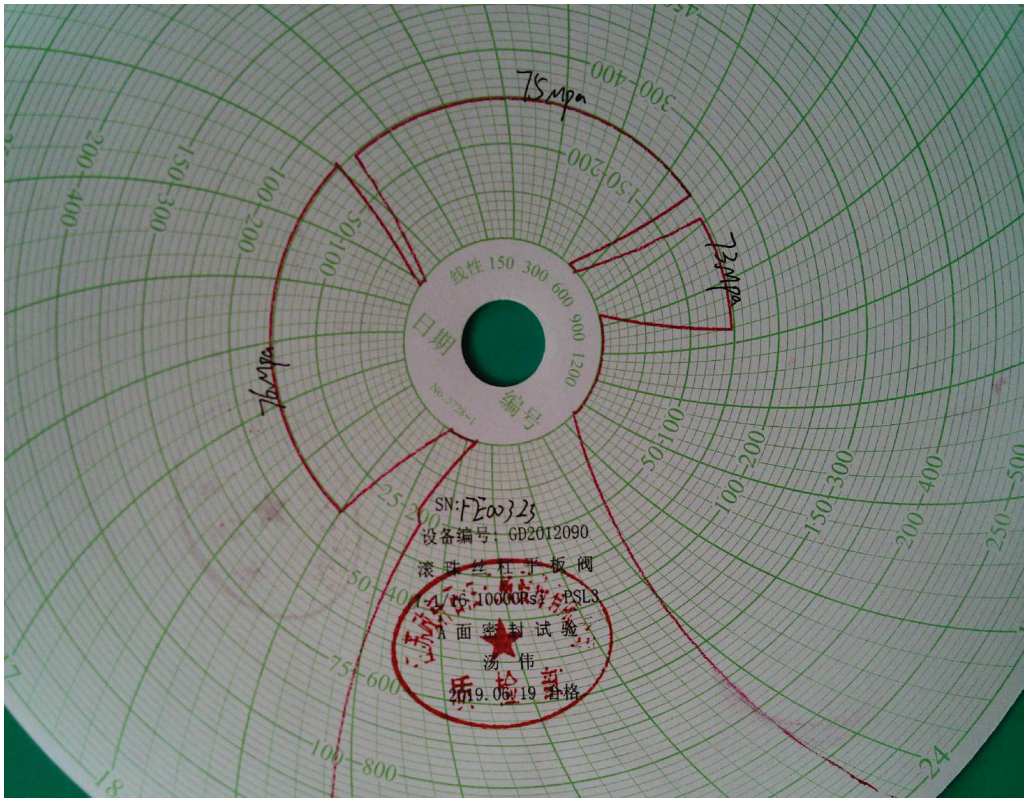
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00323	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	73.0Mpa	72.4Mpa	180S	0.6Mpa
2	75.0Mpa	73.7Mpa	900S	1.3Mpa
3	76.0Mpa	74.9Mpa	900S	1.1Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

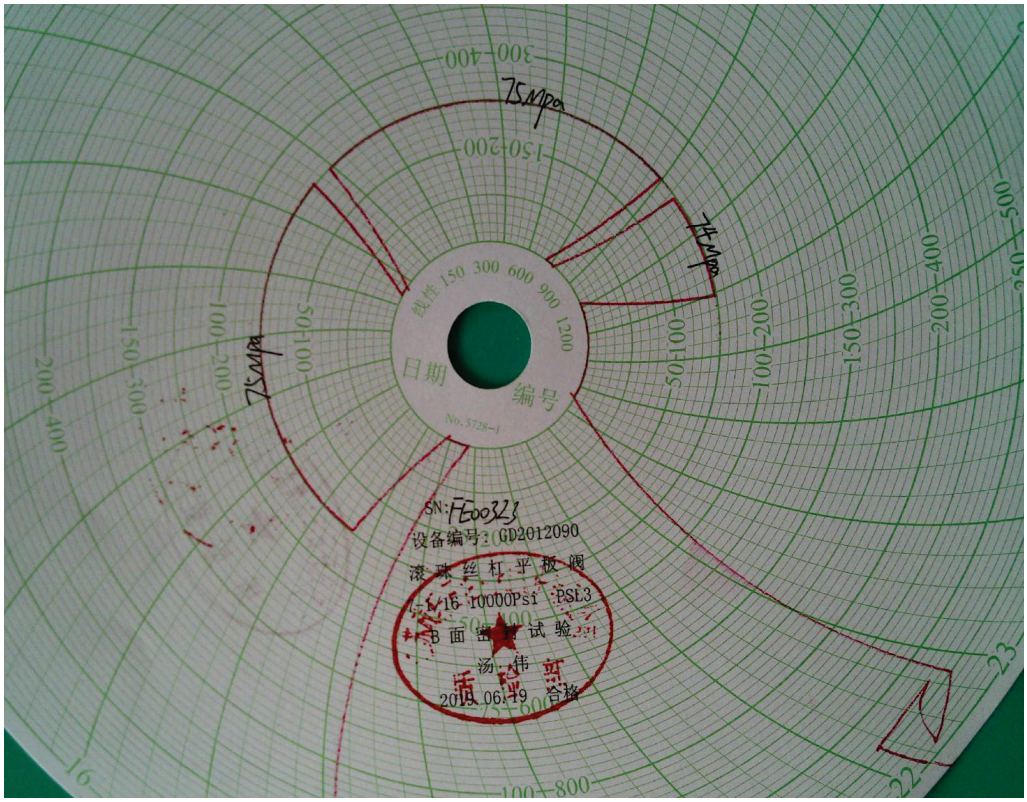
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00323	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	74.0Mpa	73.3Mpa	180S	0.7Mpa
2	75.0Mpa	73.8Mpa	900S	1.2Mpa
3	75.0Mpa	73.5Mpa	900S	1.5Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-076"CMI585"

Quantity: 1EA

Shipment No.: Crate# FE00324

Shipment Date: Jun,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-076"CMI585" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-076"CMI585"
SERIAL NO.: FE00324
HEAT TREAT #:HC1905015
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jun,2019

Customer: _____

P.O. Number: **LB18-076"CMI585"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jun,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-076"CMI585"	Ball Screw Gate Valve	02040	FE00324	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Austenized		Quenched			Temper(1)			Temper(2)		
									Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium
02040	BODY	118-12-027	HC1905015	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE01324	Forging	870	4.5H	WATER	22	37	685	5.5H	AIR	/	/	/
	BONNET	118-12-027	RC-05-11	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE02335	Forging	860	4.0H	WATER	26	32	700	5.5H	AIR	/	/	/
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE23340	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/
	STEM	17114056775	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE04336	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR
	BALANCE STEM	872K1223	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE24331	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FE08340	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FE05351 FE05331	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR

Melt No.	H.T. No.	Chemical Analysis (wt, %)															Physical Properties						
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact (-46℃)	Hardness	Equipment Type
118-12-027	HC1905015	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	Ø0.5"x2"	QTC	708.5	604.1	21.6	64.0	79/74/62	215HB	KING-3000
118-12-027	RC-05-11	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	Ø0.5"x2"	QTC	750.9	655.5	25.4	57.0	80/63/60	228HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	Ø0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
17114056775	RC-06-47	0.14	0.44	0.46	0.022	0.004	12.54	0.10	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	719.1	662.8	23.6	62.1	65/66/70	218HB	KING-3000
872K1223	RC-06-47	0.12	0.50	0.43	0.029	0.001	12.27	0.13	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	747.6	679.9	25.6	61.1	66/72/79	227HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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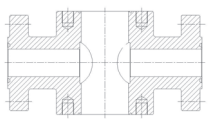
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE01324	HC1905015	224HB/221HB 223HB/217HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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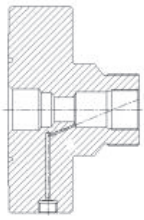
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE02335	RC-05-11	216HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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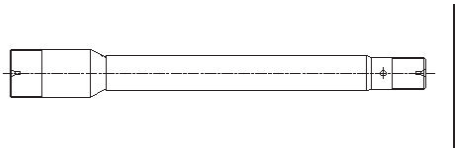
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE04336	RC-06-47	219HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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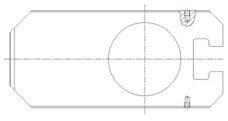
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE08340	TXY190517-1	227HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE05351	C190528T5	207HB				
2	FE05331	C190528T5	213HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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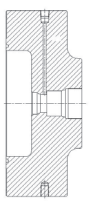
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE23340	HC1904026	220HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE24331	RC-06-47	219HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01324	HC1905015	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02335	RC-05-11	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04336	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08340	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05351	C190528T5	Acceptable				
1	FE05331	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23340	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24331	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01324	HC1905015	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02335	RC-05-11	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04336	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08340	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05351	C190528T5	Acceptable				
2	FE05331	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23340	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.04

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24331	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FE00324	HC1905015	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

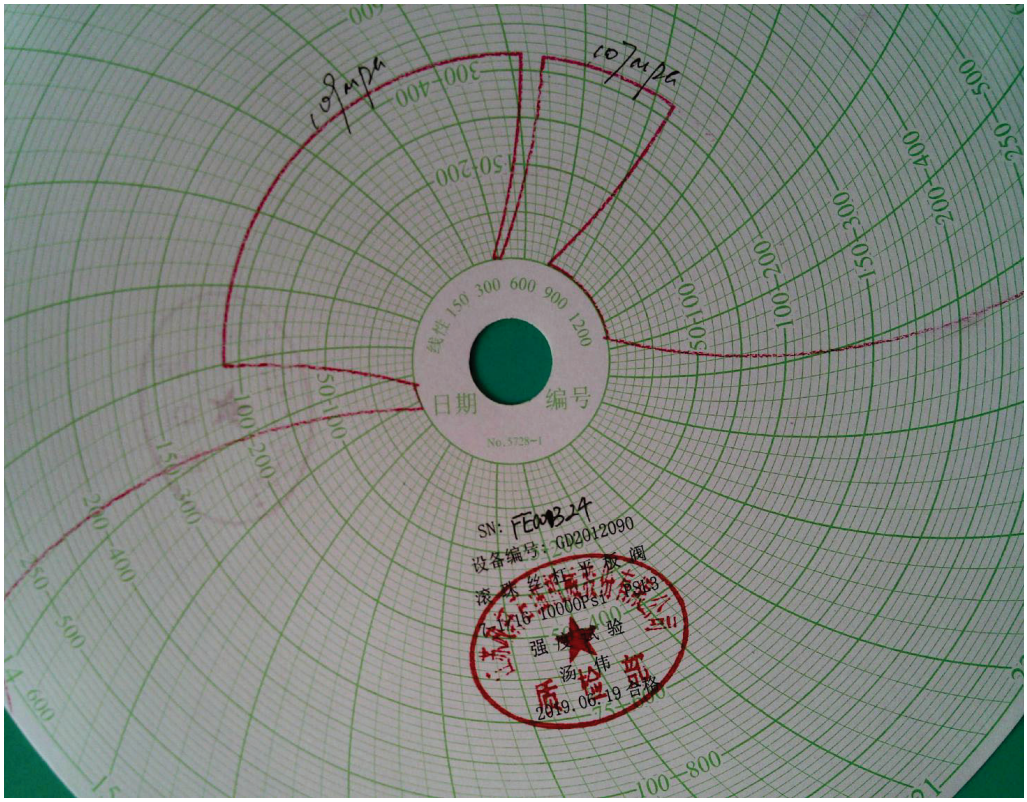
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00324	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	107.0Mpa	106.4Mpa	180S	0.6Mpa
2	109.0Mpa	107.7Mpa	900S	1.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

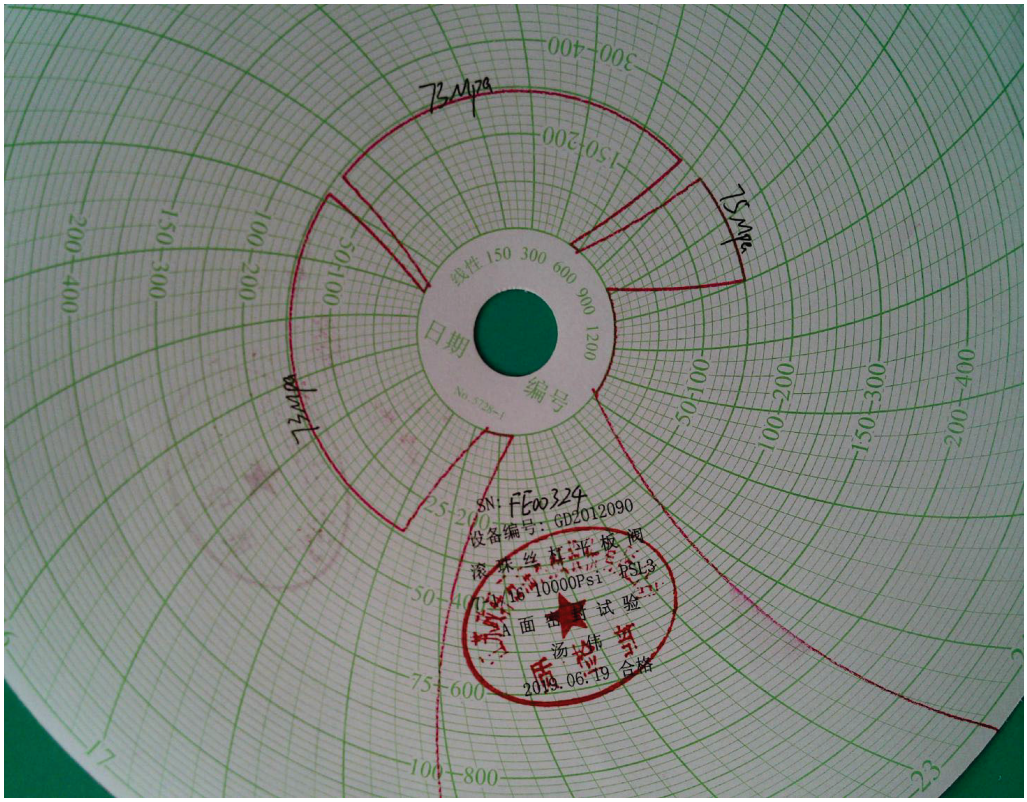
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00324	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	75.0Mpa	73.8Mpa	180S	1.2Mpa
2	73.0Mpa	72.3Mpa	900S	0.7Mpa
3	73.0Mpa	72.5Mpa	900S	0.5Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

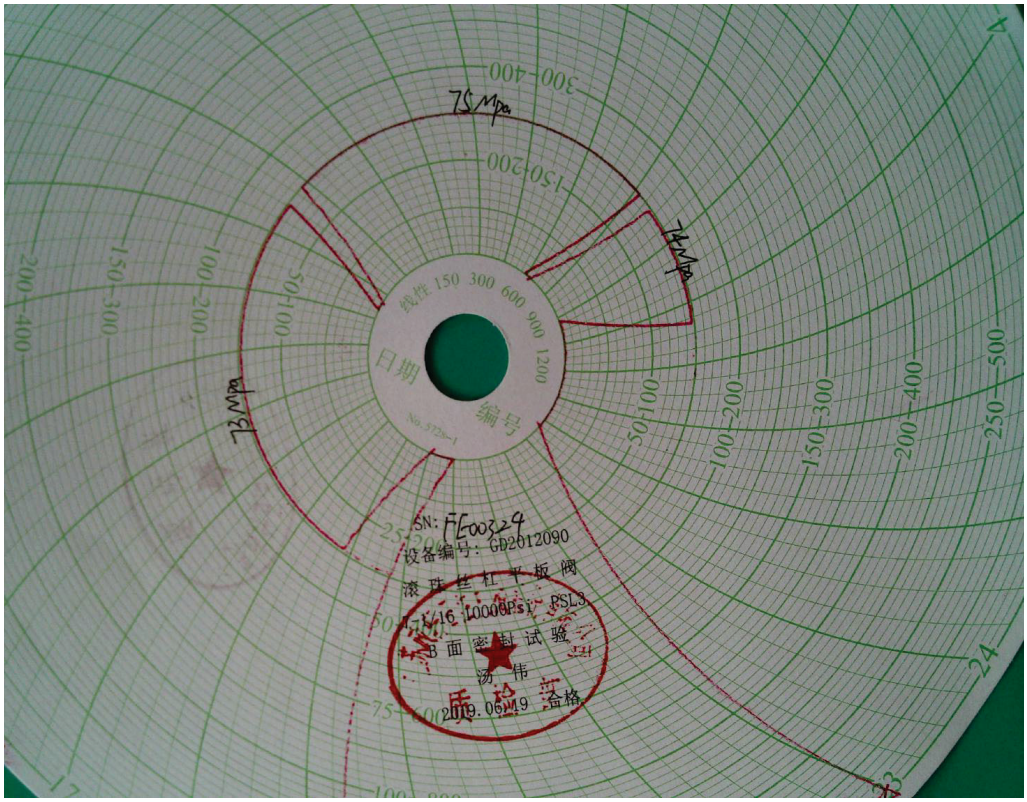
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00324	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	74.0Mpa	72.9Mpa	180S	1.1Mpa
2	75.0Mpa	73.6Mpa	900S	1.4Mpa
3	73.0Mpa	72.7Mpa	900S	0.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-076"CMI585"

Quantity: 1EA

Shipment No.: Crate# FE00325

Shipment Date: Jun,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
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6	Hydrostatic Test	Page - 25-28

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-076"CMI585" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-076"CMI585"
SERIAL NO.: FE00325
HEAT TREAT #:RJ1905012-1
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jun,2019

Customer: _____

P.O. Number: **LB18-076"CMI585"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jun,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-076"CMI585"	Ball Screw Gate Valve	02040	FE00325	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
									Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
02040	BODY	118-12-027	RJ1905012-1	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE01325	Forging	870	3.0H	WATER	21	36	670	5.5H	AIR	/	/	/	
	BONNET	118-12-027	RC-05-11	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE02327	Forging	860	4.0H	WATER	26	32	700	5.5H	AIR	/	/	/	
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE23322	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/	
	STEM	17114056775	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE04332	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	BALANCE STEM	872K1223	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE24328	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FE08329	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR	
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FE05338 FE05340	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR	

Melt No.	H.T. No.	Chemical Analysis (wt, %)														Physical Properties							
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	RJ1905012-1	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	∅0.5"x2"	QTC	723.2	667.7	25.0	61.1	66/77/80	219HB	KING-3000
118-12-027	RC-05-11	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	∅0.5"x2"	QTC	750.9	655.5	25.4	57.0	80/63/60	228HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	∅0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
17114056775	RC-06-47	0.14	0.44	0.46	0.022	0.004	12.54	0.10	/	/	/	/	/	/	/	∅0.5"x2"	QTC	719.1	662.8	23.6	62.1	65/66/70	218HB	KING-3000
872K1223	RC-06-47	0.12	0.50	0.43	0.029	0.001	12.27	0.13	/	/	/	/	/	/	/	∅0.5"x2"	QTC	747.6	679.9	25.6	61.1	66/72/79	227HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	∅0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	∅0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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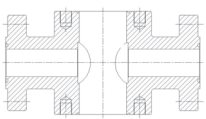
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE01325	RJ1905012-1	215HB/219HB 216HB/216HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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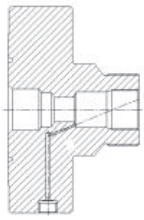
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE02327	RC-05-11	207HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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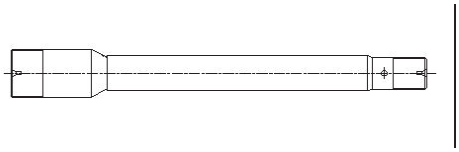
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE04332	RC-06-47	218HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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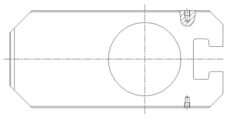
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE08329	TXY190517-1	221HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE05338	C190528T5	217HB				
2	FE05340	C190528T5	217HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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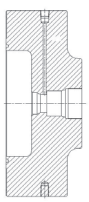
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE23322	HC1904026	211HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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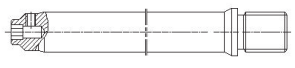
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE24328	RC-06-47	213HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01325	RJ1905012-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02327	RC-05-11	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04332	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08329	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05338	C190528T5	Acceptable				
1	FE05340	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23322	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24328	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01325	RJ1905012-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02327	RC-05-11	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04332	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08329	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05338	C190528T5	Acceptable				
2	FE05340	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23322	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.04

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24328	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FE00325	RJ1905012-1	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

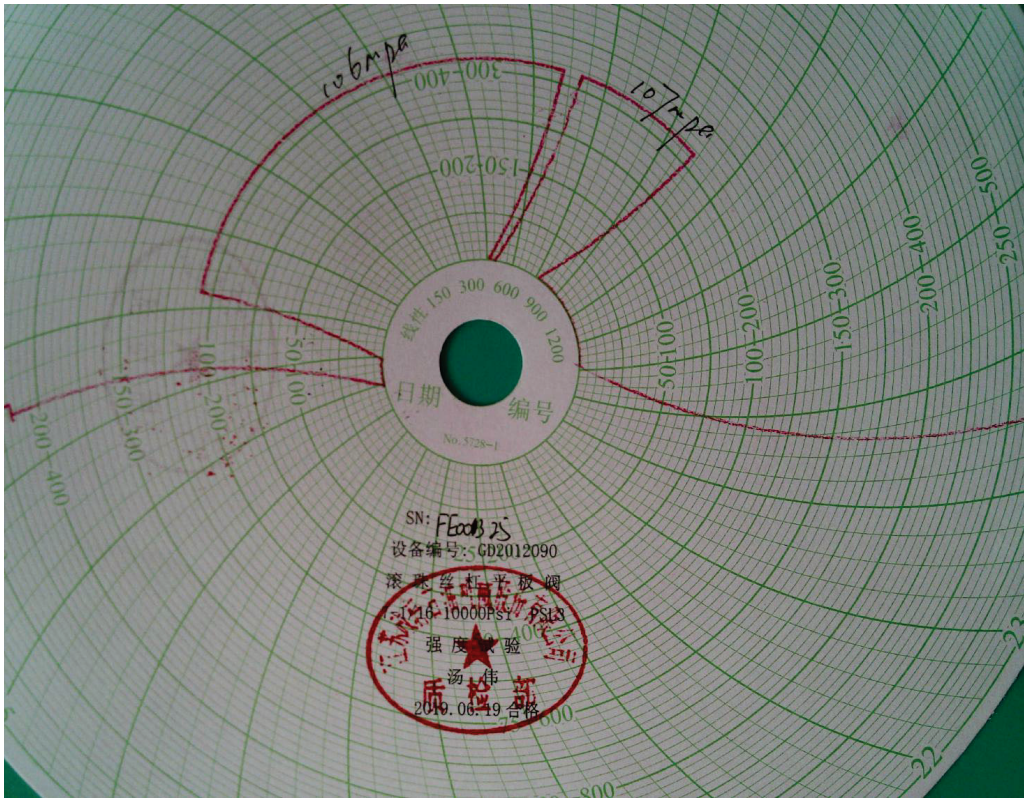
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00325	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	107.0Mpa	105.8Mpa	180S	1.2Mpa
2	106.0Mpa	105.3Mpa	900S	0.7Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

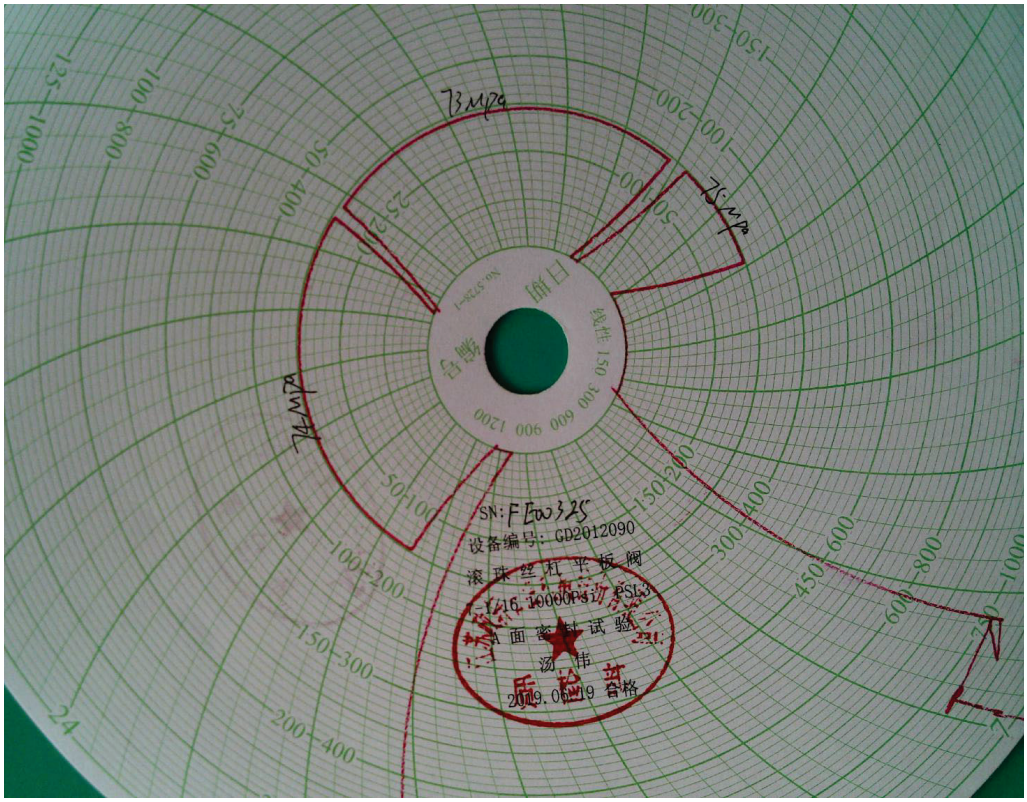
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00325	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	75.0Mpa	73.5Mpa	180S	1.5Mpa
2	73.0Mpa	72.6Mpa	900S	0.4Mpa
3	74.0Mpa	72.7Mpa	900S	1.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

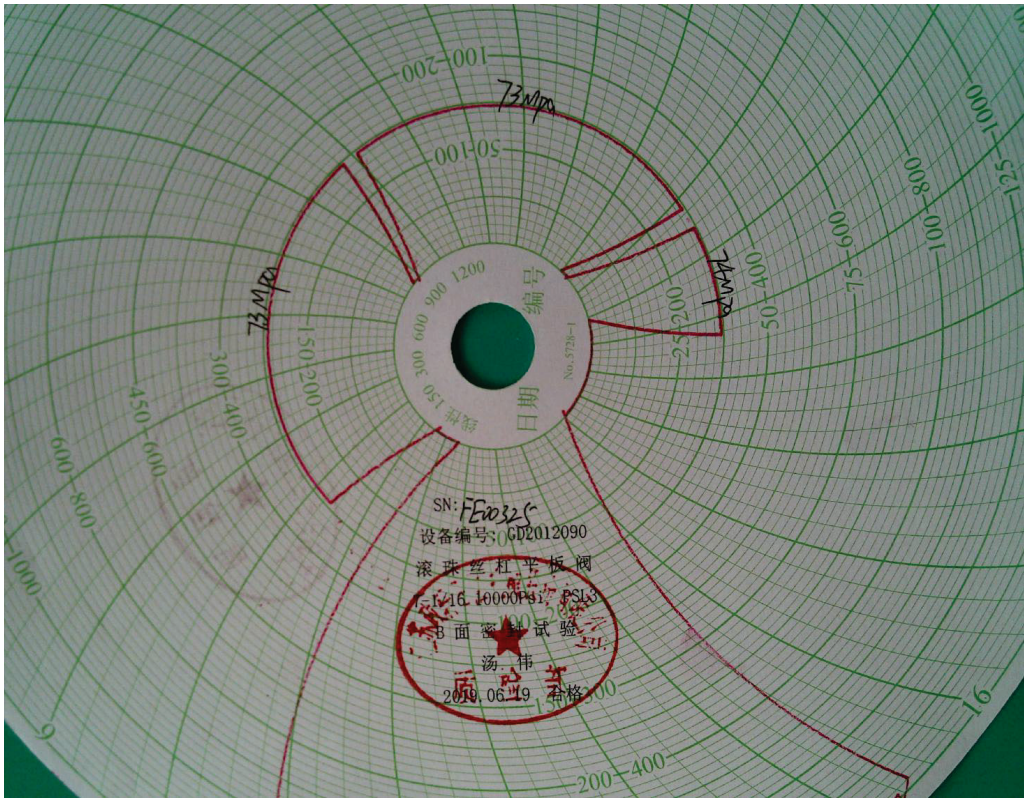
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00325	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	74.0Mpa	72.6Mpa	180S	1.4Mpa
2	73.0Mpa	72.1Mpa	900S	0.9Mpa
3	73.0Mpa	72.7Mpa	900S	0.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-076"CMI585"

Quantity: 1EA

Shipment No.: Crate# FE00326

Shipment Date: Jun,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-076"CMI585" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-076"CMI585"
SERIAL NO.: FE00326
HEAT TREAT #:RJ1905012-1
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jun,2019

Customer: _____

P.O. Number: **LB18-076"CMI585"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jun,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-076"CMI585"	Ball Screw Gate Valve	02040	FE00326	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Austenized		Quenched			Temper(1)			Temper(2)			
									Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium
02040	BODY	118-12-027	RJ1905012-1	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE01326	Forging	870	3.0H	WATER	21	36	670	5.5H	AIR	/	/	/
	BONNET	118-12-027	RC-05-11	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE02323	Forging	860	4.0H	WATER	26	32	700	5.5H	AIR	/	/	/
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE23327	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/
	STEM	17114056775	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE04335	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR
	BALANCE STEM	872K1223	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE24330	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FE08338	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FE05322 FE05326	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR

Melt No.	H.T. No.	Chemical Analysis (wt, %)														Physical Properties							
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	RJ1905012-1	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	∅0.5"x2"	QTC	723.2	667.7	25.0	61.1	66/77/80	219HB	KING-3000
118-12-027	RC-05-11	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	∅0.5"x2"	QTC	750.9	655.5	25.4	57.0	80/63/60	228HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	∅0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
17114056775	RC-06-47	0.14	0.44	0.46	0.022	0.004	12.54	0.10	/	/	/	/	/	/	/	∅0.5"x2"	QTC	719.1	662.8	23.6	62.1	65/66/70	218HB	KING-3000
872K1223	RC-06-47	0.12	0.50	0.43	0.029	0.001	12.27	0.13	/	/	/	/	/	/	/	∅0.5"x2"	QTC	747.6	679.9	25.6	61.1	66/72/79	227HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	∅0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	∅0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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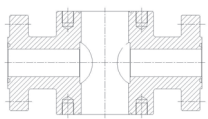
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE01326	RJ1905012-1	215HB/219HB 216HB/222HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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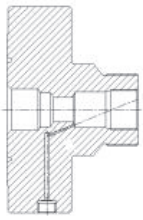
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE02323	RC-05-11	222HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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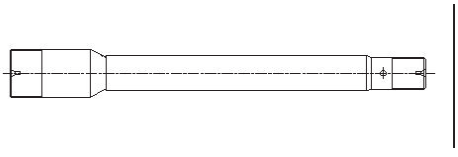
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE04335	RC-06-47	216HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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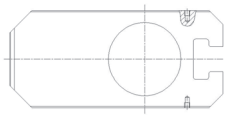
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE08338	TXY190517-1	221HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE05322	C190528T5	205HB				
2	FE05326	C190528T5	209HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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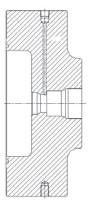
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE23327	HC1904026	217HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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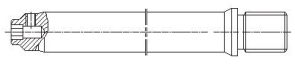
HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE24330	RC-06-47	213HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01326	RJ1905012-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02323	RC-05-11	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04335	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08338	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05322	C190528T5	Acceptable				
1	FE05326	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23327	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24330	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01326	RJ1905012-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02323	RC-05-11	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04335	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08338	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05322	C190528T5	Acceptable				
2	FE05326	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23327	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.04

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24330	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FE00326	RJ1905012-1	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

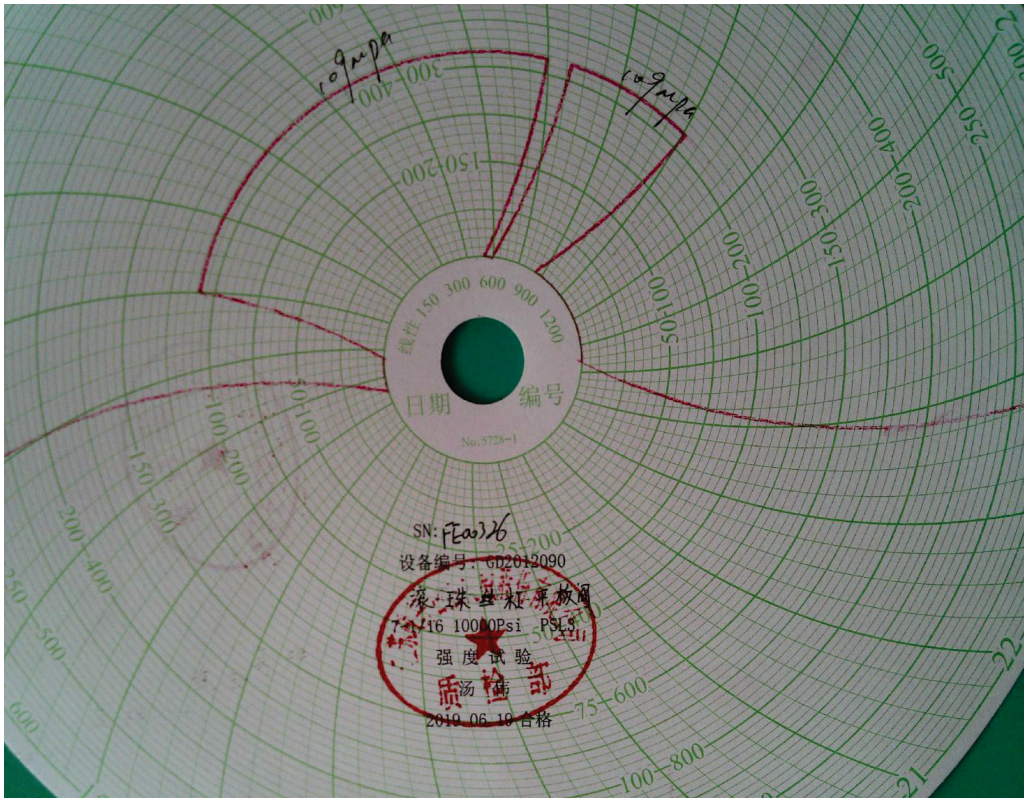
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00326	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	109.0Mpa	107.6Mpa	180S	1.4Mpa
2	109.0Mpa	107.9Mpa	900S	1.1Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

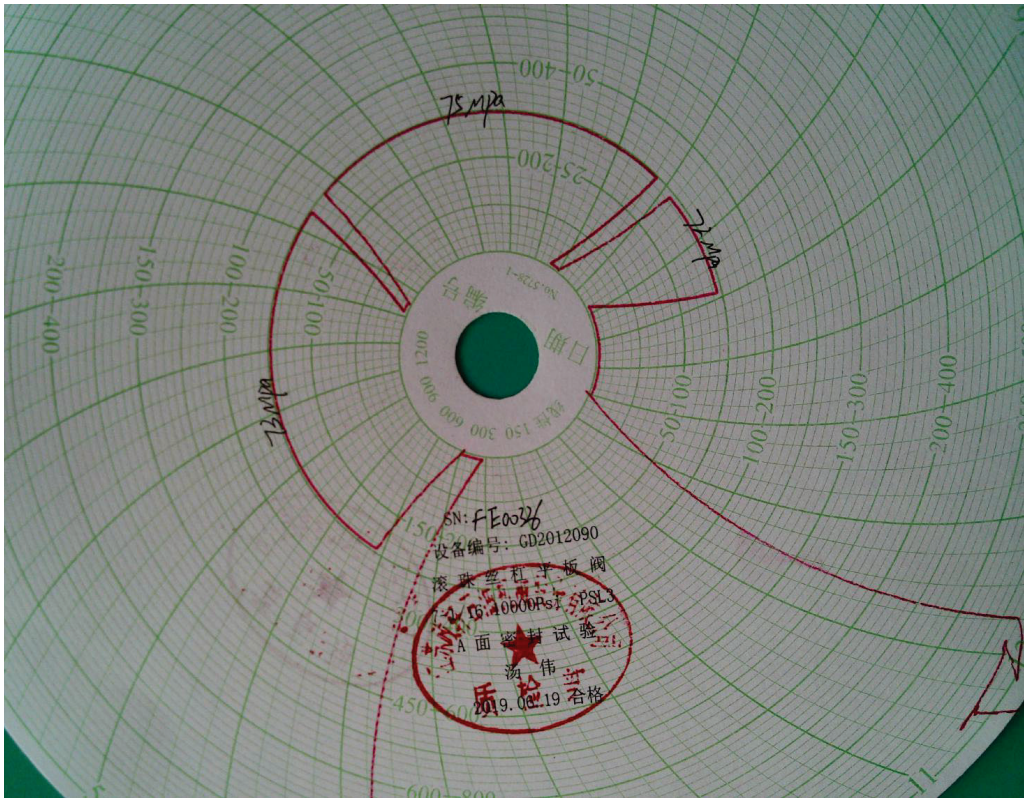
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00326	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	72.0Mpa	71.7Mpa	180S	0.3Mpa
2	75.0Mpa	73.8Mpa	900S	1.2Mpa
3	73.0Mpa	72.2Mpa	900S	0.8Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

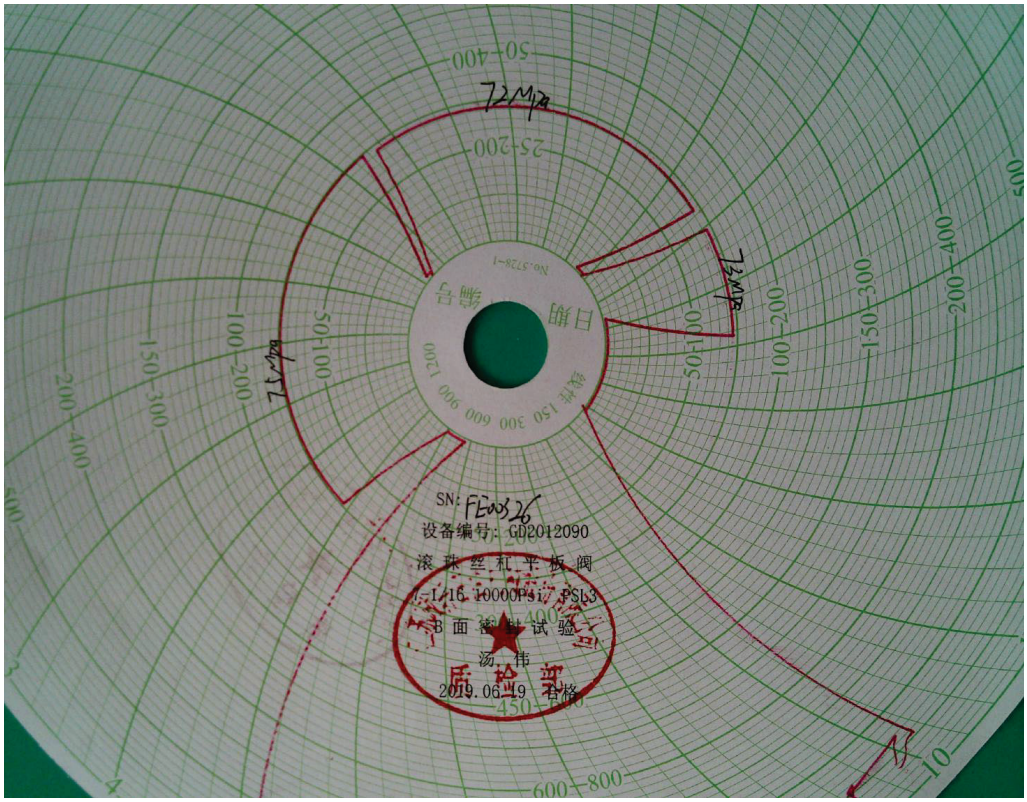
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00326	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	73.0Mpa	71.7Mpa	180S	1.3Mpa
2	72.0Mpa	71.8Mpa	900S	0.2Mpa
3	75.0Mpa	73.5Mpa	900S	1.5Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-076"CMI585"

Quantity: 1EA

Shipment No.: Crate# FE00329

Shipment Date: Jun,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-076"CMI585" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-076"CMI585"
SERIAL NO.: FE00329
HEAT TREAT #:RC-05-28
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jun,2019

Customer: _____

P.O. Number: **LB18-076"CMI585"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jun,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-076"CMI585"	Ball Screw Gate Valve	02040	FE00329	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Austenized		Quenched			Temper(1)			Temper(2)		
									Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium
02040	BODY	118-12-027	RC-05-28	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE01329	Forging	860	4.5H	WATER	25	33	695	6.5H	AIR	/	/	/
	BONNET	118-12-027	RC-05-11	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE02336	Forging	860	4.0H	WATER	26	32	700	5.5H	AIR	/	/	/
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE23337	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/
	STEM	17114056775	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE04324	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR
	BALANCE STEM	872K1223	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE24324	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FE08324	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FE05336 FE05354	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR

Melt No.	H.T. No.	Chemical Analysis (wt, %)															Physical Properties						
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact (-46℃)	Hardness	Equipment Type
118-12-027	RC-05-28	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	Ø0.5"x2"	QTC	753.3	684.0	20.6	60.1	77/64/80	228HB	KING-3000
118-12-027	RC-05-11	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	Ø0.5"x2"	QTC	750.9	655.5	25.4	57.0	80/63/60	228HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	Ø0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
17114056775	RC-06-47	0.14	0.44	0.46	0.022	0.004	12.54	0.10	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	719.1	662.8	23.6	62.1	65/66/70	218HB	KING-3000
872K1223	RC-06-47	0.12	0.50	0.43	0.029	0.001	12.27	0.13	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	747.6	679.9	25.6	61.1	66/72/79	227HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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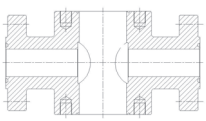
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE01329	RC-05-28	226HB/222HB 223HB/231HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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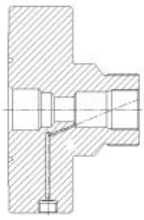
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE02336	RC-05-11	208HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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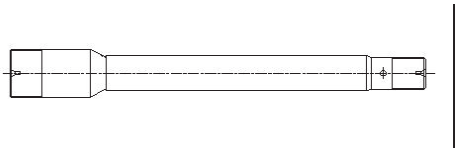
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE04324	RC-06-47	220HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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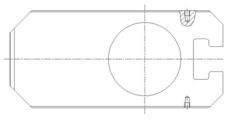
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE08324	TXY190517-1	221HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE05336	C190528T5	217HB				
2	FE05354	C190528T5	207HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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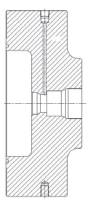
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE23337	HC1904026	217HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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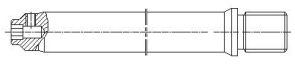
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE24324	RC-06-47	210HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01329	RC-05-28	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02336	RC-05-11	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04324	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08324	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05336	C190528T5	Acceptable				
1	FE05354	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23337	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24324	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01329	RC-05-28	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02336	RC-05-11	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04324	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08324	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05336	C190528T5	Acceptable				
2	FE05354	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23337	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.04

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24324	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FE00329	RC-05-28	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

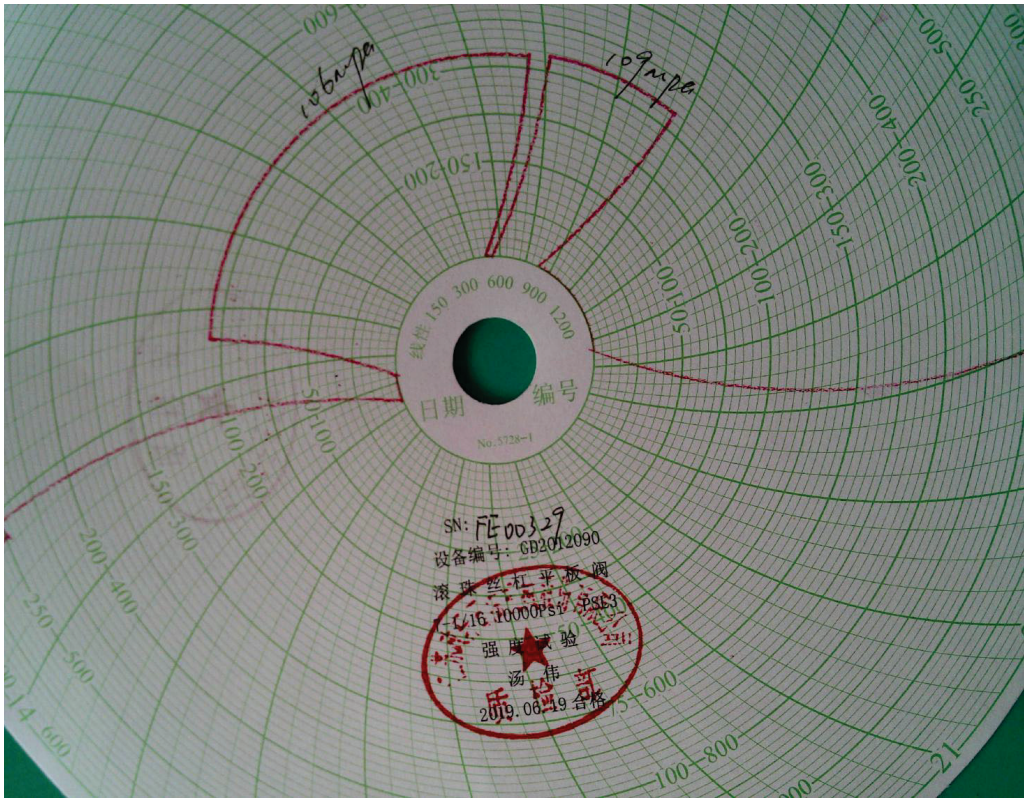
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00329	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	109.0Mpa	107.7Mpa	180S	1.3Mpa
2	106.0Mpa	105.8Mpa	900S	0.2Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

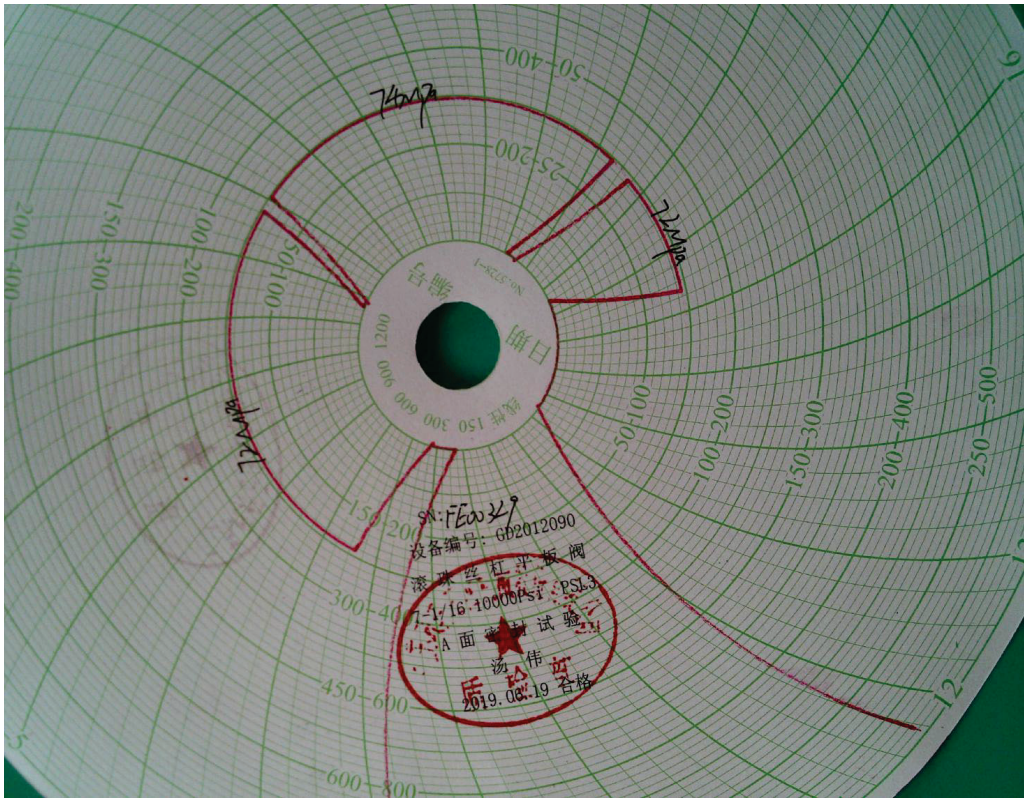
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00329	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	72.0Mpa	71.6Mpa	180S	0.4Mpa
2	74.0Mpa	72.5Mpa	900S	1.5Mpa
3	72.0Mpa	71.3Mpa	900S	0.7Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

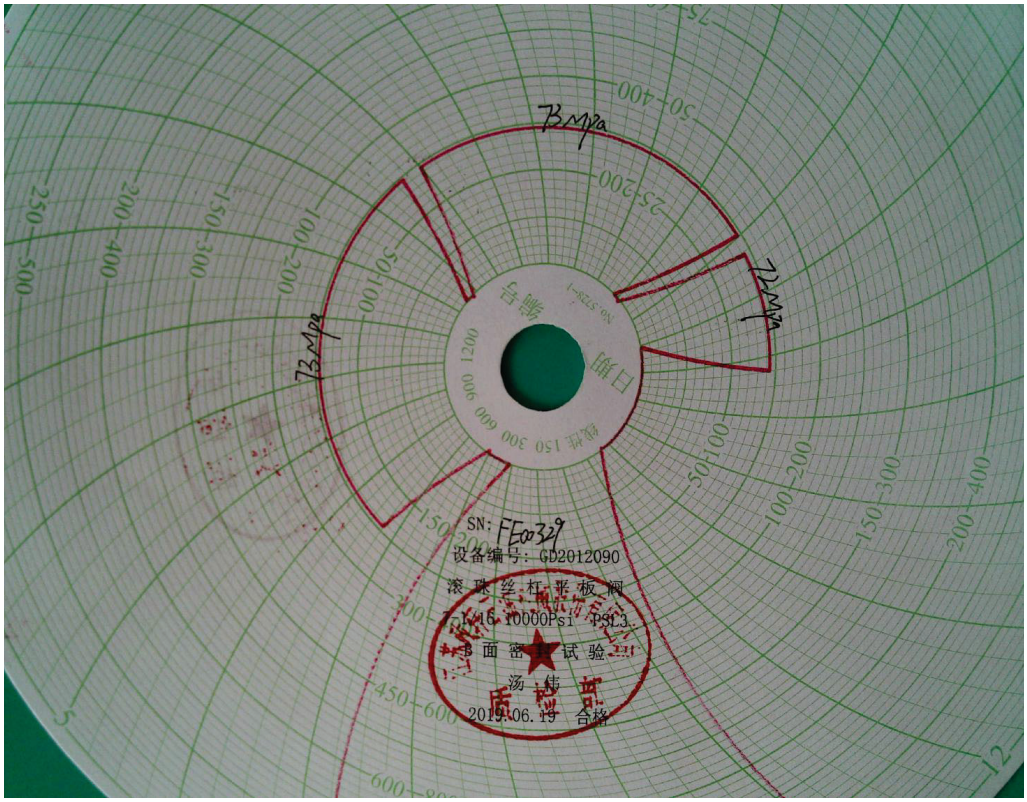
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00329	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	72.0Mpa	71.5Mpa	180S	0.5Mpa
2	73.0Mpa	71.9Mpa	900S	1.1Mpa
3	73.0Mpa	71.6Mpa	900S	1.4Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.19

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-076"CMI585"

Quantity: 1EA

Shipment No.: Crate# FE00331

Shipment Date: Jun,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
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6	Hydrostatic Test	Page - 25-28

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-076"CMI585" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-076"CMI585"
SERIAL NO.: FE00331
HEAT TREAT #:RC-05-28
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jun,2019

Customer: _____

P.O. Number: **LB18-076"CMI585"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jun,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-076"CMI585"	Ball Screw Gate Valve	02040	FE00331	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Austenized		Quenched			Temper(1)			Temper(2)			
									Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium	
02040	BODY	118-12-027	RC-05-28	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE01331	Forging	860	4.5H	WATER	25	33	695	6.5H	AIR	/	/	/	
	BONNET	118-12-027	RJ1905008-1	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE02324	Forging	860	3.0H	WATER	21	35	670	5.0H	AIR	/	/	/	
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE23336	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/	
	STEM	17114056775	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE04337	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	BALANCE STEM	872K1223	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE24337	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR	
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FE08333	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR	
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FE05358 FE05348	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR	

Melt No.	H.T. No.	Chemical Analysis (wt, %)														Physical Properties							
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	RC-05-28	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	753.3	684.0	20.6	60.1	77/64/80	228HB	KING-3000
118-12-027	RJ1905008-1	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	743.5	662.0	25.6	60.1	62/69/74	225HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
17114056775	RC-06-47	0.14	0.44	0.46	0.022	0.004	12.54	0.10	/	/	/	/	/	/	/	¢0.5"x2"	QTC	719.1	662.8	23.6	62.1	65/66/70	218HB	KING-3000
872K1223	RC-06-47	0.12	0.50	0.43	0.029	0.001	12.27	0.13	/	/	/	/	/	/	/	¢0.5"x2"	QTC	747.6	679.9	25.6	61.1	66/72/79	227HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	¢0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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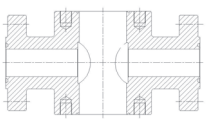
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE01331	RC-05-28	218HB/221HB 216HB/219HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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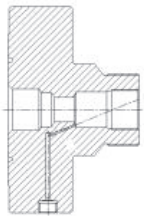
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE02324	RJ1905008-1	211HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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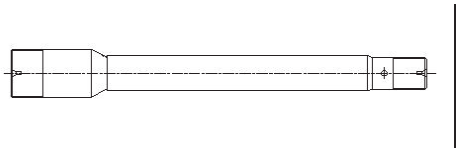
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE04337	RC-06-47	222HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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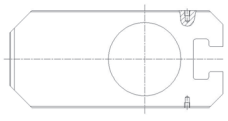
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE08333	TXY190517-1	229HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE05358	C190528T5	215HB				
2	FE05348	C190528T5	225HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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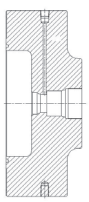
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE23336	HC1904026	219HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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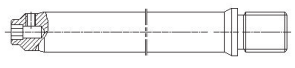
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE24337	RC-06-47	221HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01331	RC-05-28	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02324	RJ1905008-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04337	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08333	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05358	C190528T5	Acceptable				
1	FE05348	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23336	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24337	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01331	RC-05-28	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02324	RJ1905008-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04337	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08333	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05358	C190528T5	Acceptable				
2	FE05348	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23336	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.04

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24337	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FE00331	RC-05-28	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

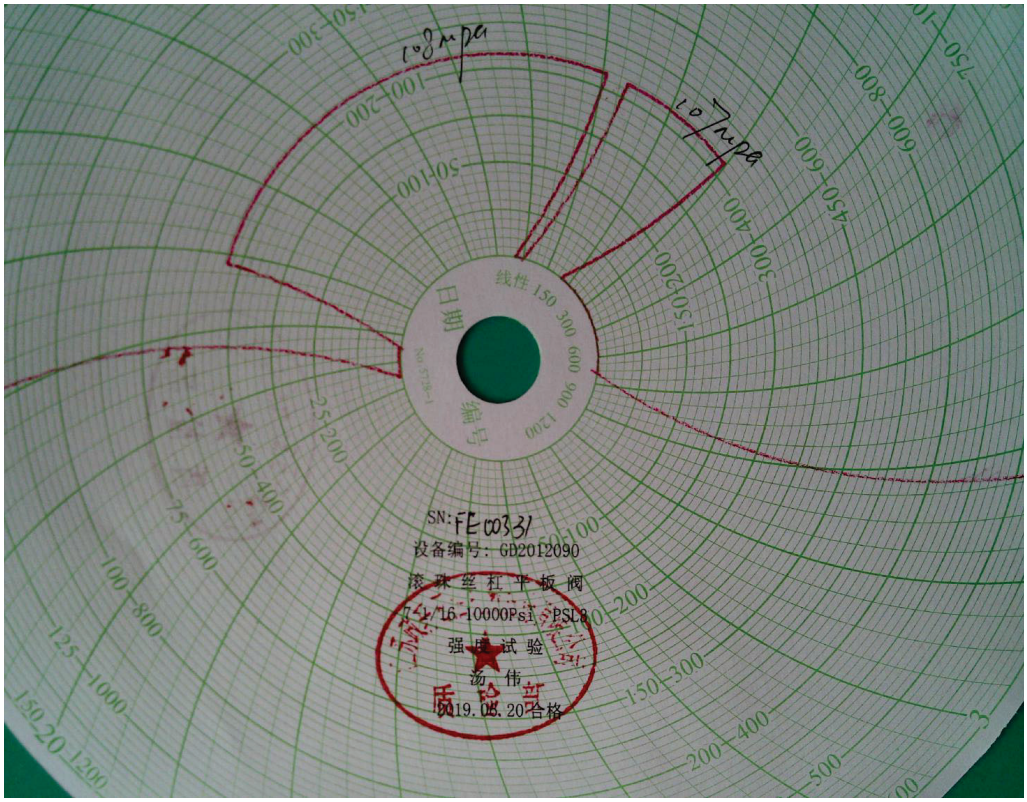
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00331	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	107.0Mpa	106.4Mpa	180S	0.6Mpa
2	108.0Mpa	106.7Mpa	900S	1.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.20

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

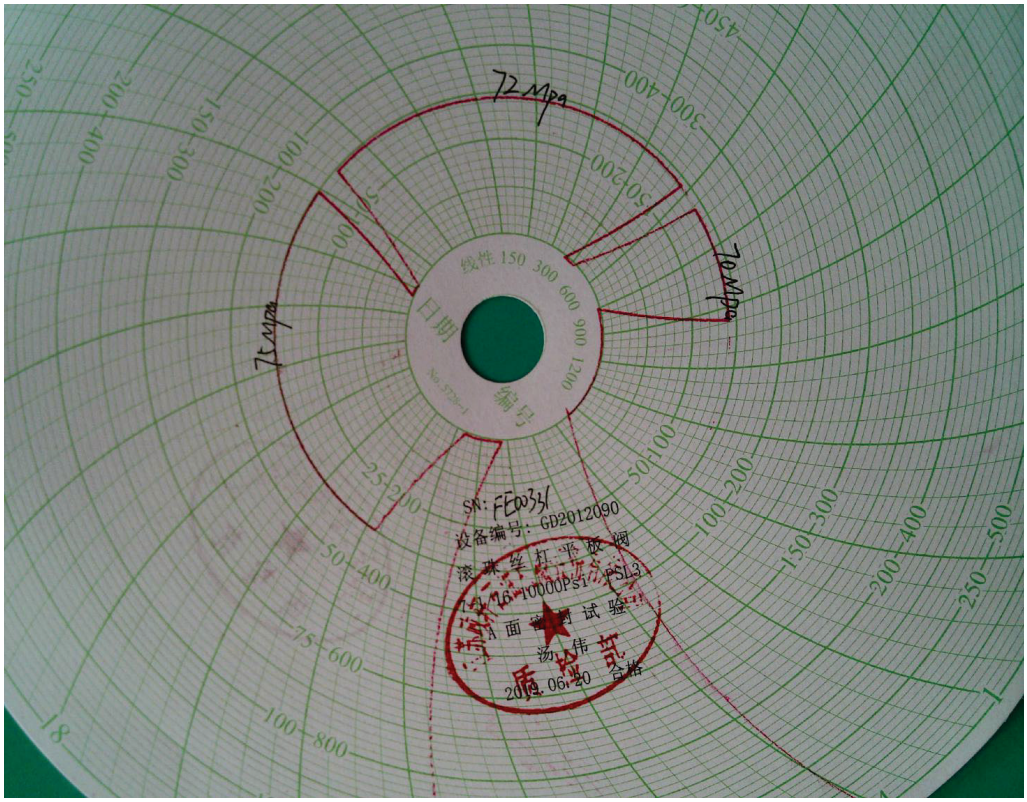
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00331	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	70.0Mpa	69.3Mpa	180S	0.7Mpa
2	72.0Mpa	70.8Mpa	900S	1.2Mpa
3	75.0Mpa	73.5Mpa	900S	1.5Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.20

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

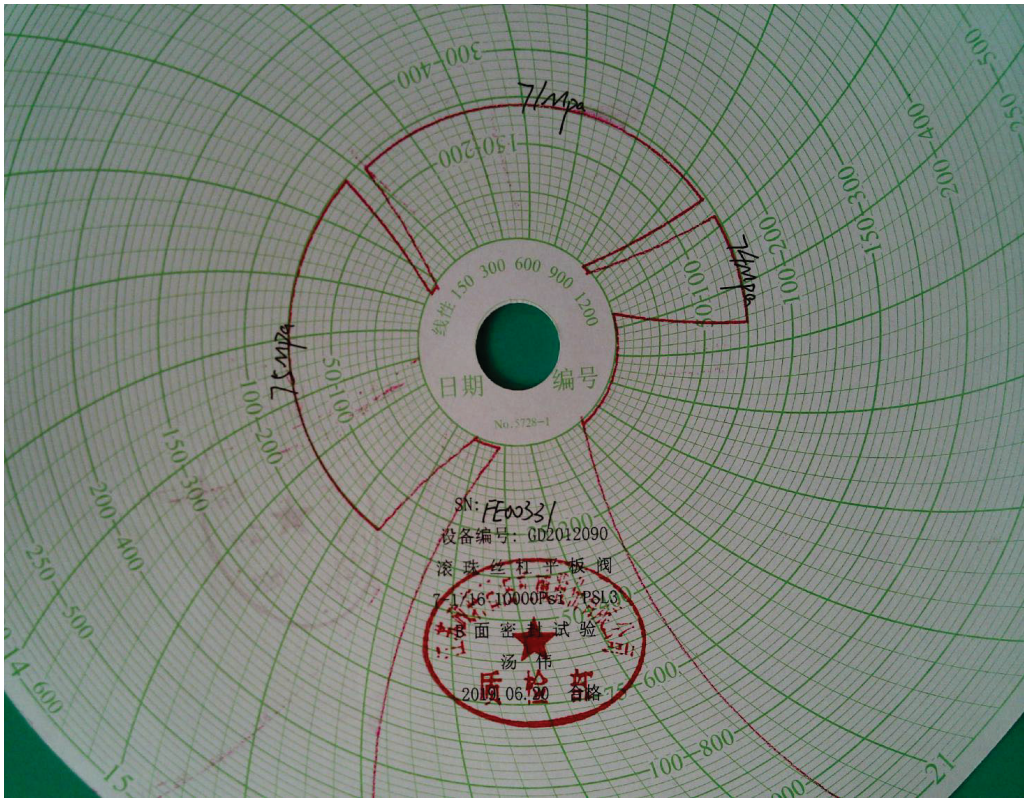
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00331	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	74.0Mpa	72.9Mpa	180S	1.1Mpa
2	71.0Mpa	70.5Mpa	900S	0.5Mpa
3	75.0Mpa	73.6Mpa	900S	1.4Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.20

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-076"CMI585"

Quantity: 1EA

Shipment No.: Crate# FE00333

Shipment Date: Jun,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-076"CMI585" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-076"CMI585"
SERIAL NO.: FE00333
HEAT TREAT #:HC1905021
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jun,2019

Customer: _____

P.O. Number: **LB18-076"CMI585"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jun,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-076"CMI585"	Ball Screw Gate Valve	02040	FE00333	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Austenized		Quenched			Temper(1)			Temper(2)			
									Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium
02040	BODY	118-12-027	HC1905021	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE01333	Forging	870	4.0H	WATER	27	37	685	5.5H	AIR	/	/	/
	BONNET	118-12-027	RJ1905008-1	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE02333	Forging	860	3.0H	WATER	21	35	670	5.0H	AIR	/	/	/
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE23335	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/
	STEM	17114056775	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE04340	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR
	BALANCE STEM	872K1223	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE24333	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FE08328	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FE05341 FE05344	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR

Melt No.	H.T. No.	Chemical Analysis (wt, %)														Physical Properties							
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	HC1905021	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	748.4	667.7	24.2	58.0	72/79/65	227HB	KING-3000
118-12-027	RJ1905008-1	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	743.5	662.0	25.6	60.1	62/69/74	225HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	¢0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
17114056775	RC-06-47	0.14	0.44	0.46	0.022	0.004	12.54	0.10	/	/	/	/	/	/	/	¢0.5"x2"	QTC	719.1	662.8	23.6	62.1	65/66/70	218HB	KING-3000
872K1223	RC-06-47	0.12	0.50	0.43	0.029	0.001	12.27	0.13	/	/	/	/	/	/	/	¢0.5"x2"	QTC	747.6	679.9	25.6	61.1	66/72/79	227HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	¢0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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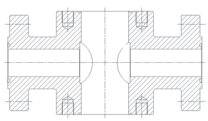
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE01333	HC1905021	215HB/211HB 209HB/217HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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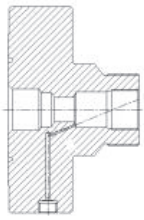
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE02333	RJ1905008-1	207HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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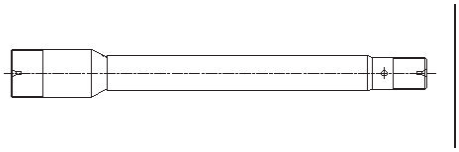
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE04340	RC-06-47	223HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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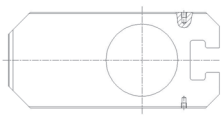
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE08328	TXY190517-1	223HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE05341	C190528T5	220HB				
2	FE05344	C190528T5	220HB				

Sketch:

Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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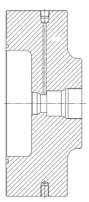
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE23335	HC1904026	212HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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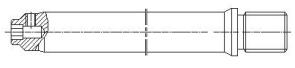
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE24333	RC-06-47	219HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01333	HC1905021	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02333	RJ1905008-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04340	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08328	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05341	C190528T5	Acceptable				
1	FE05344	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23335	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24333	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01333	HC1905021	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02333	RJ1905008-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04340	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08328	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05341	C190528T5	Acceptable				
2	FE05344	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23335	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.04

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24333	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FE00333	HC1905021	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

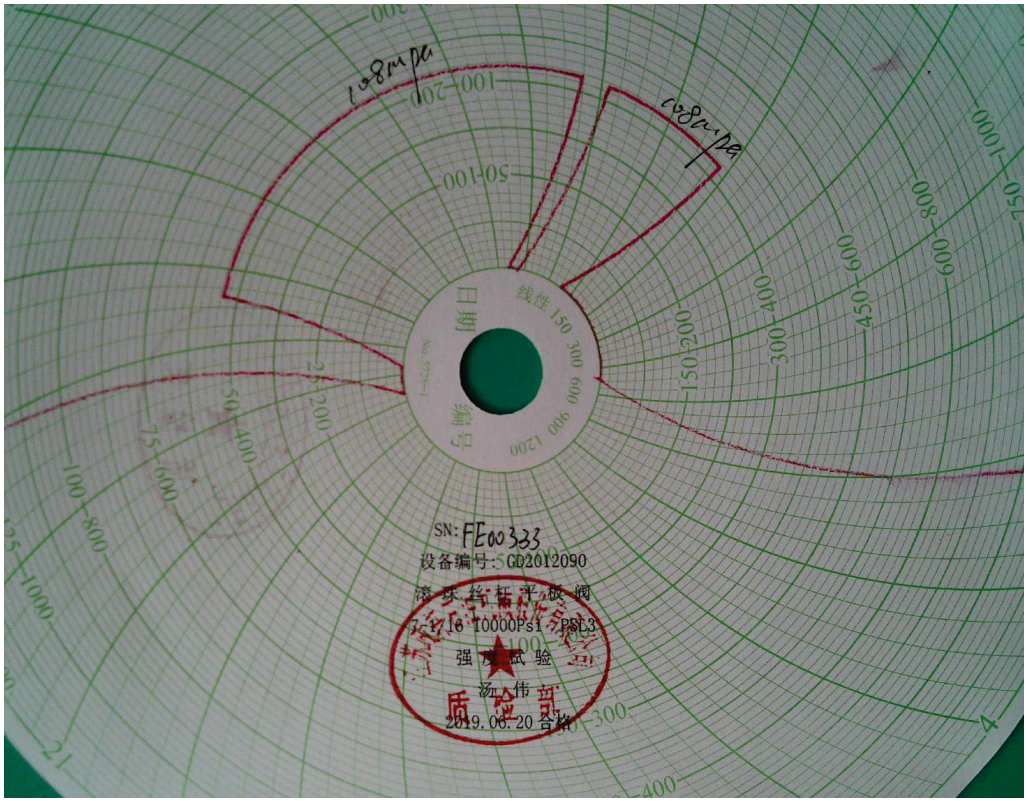
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00333	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	108.0Mpa	106.6Mpa	180S	1.4Mpa
2	108.0Mpa	106.8Mpa	900S	1.2Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.20

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

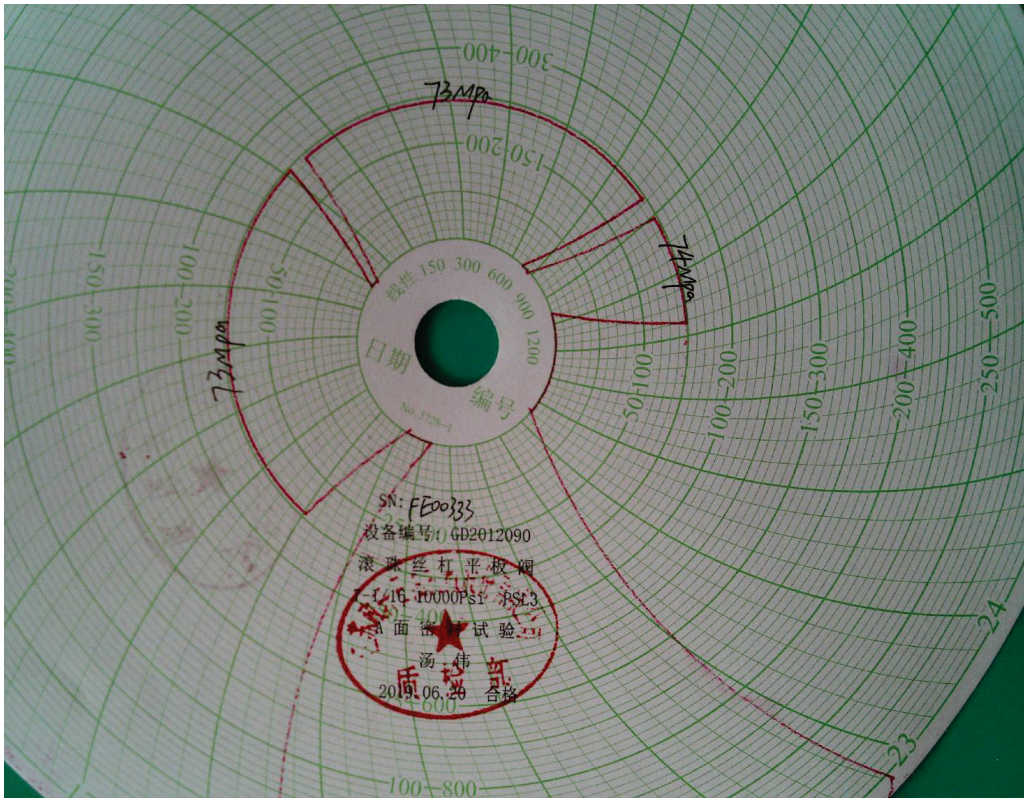
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00333	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	74.0Mpa	72.5Mpa	180S	1.5Mpa
2	73.0Mpa	72.4Mpa	900S	0.6Mpa
3	73.0Mpa	72.7Mpa	900S	0.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.20

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

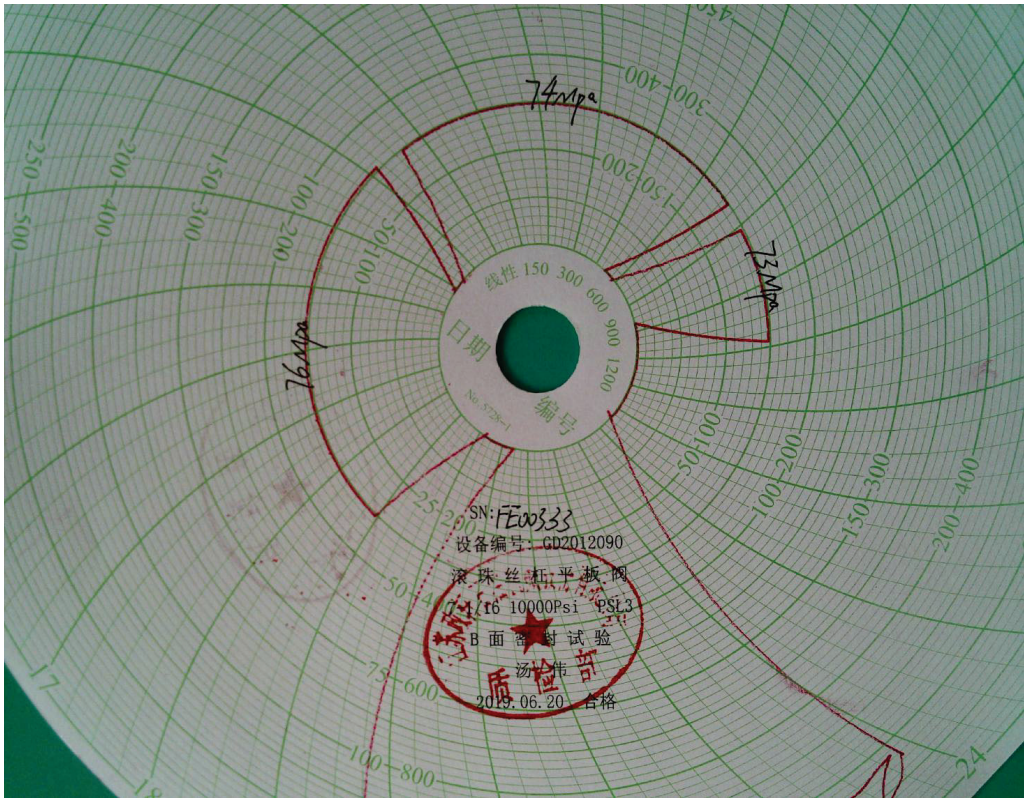
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00333	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	73.0Mpa	72.8Mpa	180S	0.2Mpa
2	74.0Mpa	72.9Mpa	900S	1.1Mpa
3	76.0Mpa	74.7Mpa	900S	1.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.20

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: LB18-076"CMI585"

Quantity: 1EA

Shipment No.: Crate# FE00338

Shipment Date: Jun,2019

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-10
5	Ultrasonic Testing	Page - 11-17
6	Magnetic Particle Inspection Report	Page - 18-24
6	Hydrostatic Test	Page - 25-28

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # LB18-076"CMI585" , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: LB18-076"CMI585"
SERIAL NO.: FE00338
HEAT TREAT #:RJ1905022
PART NO.: 02040
DRAWING NO: 01904
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Guo Wei Li

EX-FACTORY DATE: Jun,2019

Customer: _____

P.O. Number: **LB18-076"CMI585"**

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date: Jun,2019

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	LB18-076"CMI585"	Ball Screw Gate Valve	02040	FE00338	1	7-1/16	10000Psi	EE	PSL3	LU	API SPEC 6A

Description							Melting Practice		Heat Treatment											
P/N	Parts	Melt No.	H.T. No.	Material Spec	Standards	Qty.	Serial No.	Finished	Austenized		Quenched			Temper(1)			Temper(2)		
									Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium
02040	BODY	118-12-027	RJ1905022	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE01338	Forging	860	3.0H	WATER	27	35	675	5.5H	AIR	/	/	/
	BONNET	118-12-027	RJ1905008-1	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE02329	Forging	860	3.0H	WATER	21	35	670	5.0H	AIR	/	/	/
	TAIL BONNET	118-12-027	HC1904026	AISI 4130 75K	ASTMA29 -A29M-2016	1	FE23323	Forging	870	4.5H	WATER	20	38	680	6.0H	AIR	/	/	/
	STEM	17114056775	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE04327	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR
	BALANCE STEM	872K1223	RC-06-47	AISI 410 75K	ASTMA276 -A276M-2016	1	FE24322	Bar	1000	4.0H	OIL	33	42	750	5.5H	AIR	650	5.5H	AIR
	GATE	B3901019	TXY190517-1	AISI 410 75K	ASTMA276 -A276M-2016	1	FE08337	Forging	1000	5.0H	OIL	23	36	720	9.0H	AIR	660	9.0H	AIR
	BODY BUSHING	18206012588	C190528T5	AISI 410 75K	ASTMA276 -A276M-2016	2	FE05349 FE05321	Forging	1020	2.5H	OIL	27	32	690	3.0H	AIR	660	3.0H	AIR

Melt No.	H.T. No.	Chemical Analysis (wt, %)														Physical Properties							
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
118-12-027	RJ1905022	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	Ø0.5"x2"	QTC	747.6	673.4	24.6	57.0	76/64/70	227HB	KING-3000
118-12-027	RJ1905008-1	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	Ø0.5"x2"	QTC	743.5	662.0	25.6	60.1	62/69/74	225HB	KING-3000
118-12-027	HC1904026	0.330	0.490	0.220	0.022	0.006	0.880	0.110	0.168	/	/	/	0.040	/	/	Ø0.5"x2"	QTC	746.0	684.0	20.2	64.0	75/70/68	226HB	KING-3000
17114056775	RC-06-47	0.14	0.44	0.46	0.022	0.004	12.54	0.10	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	719.1	662.8	23.6	62.1	65/66/70	218HB	KING-3000
872K1223	RC-06-47	0.12	0.50	0.43	0.029	0.001	12.27	0.13	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	747.6	679.9	25.6	61.1	66/72/79	227HB	KING-3000
B3901019	TXY190517-1	0.11	0.30	0.55	0.020	0.001	11.64	0.07	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	730.0	599.0	29.0	56.0	72/82/76	235HB	KING-3000
18206012588	C190528T5	0.115	0.48	0.27	0.017	0.002	11.70	0.27	/	/	/	/	/	/	/	Ø0.5"x2"	QTC	720.0	575.0	27.5	60.0	30/24832	228HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
7-1/16 10000Psi BX156 EE PSL3 PR1 LU	Shell	103.5Mpa	First Holding time / 3min,Second Holding time / 15min.	OK	DIMENSIONS	DRAWINGS	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	THREADS	GDecED	OK
	seat	69.0Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	OK	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

Guo Wei Li

NAME of QA Manager, for and on the authority of COMPANY NAME

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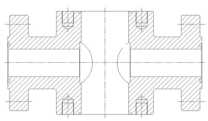
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE01338	RJ1905022	218HB/215HB 221HB/218HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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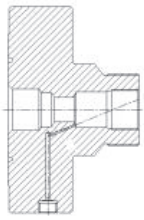
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE02329	RJ1905008-1	224HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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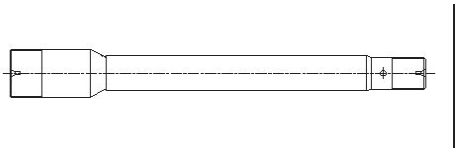
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE04327	RC-06-47	222HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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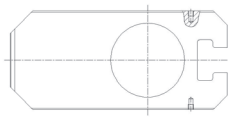
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE08337	TXY190517-1	228HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE05349	C190528T5	225HB				
2	FE05321	C190528T5	205HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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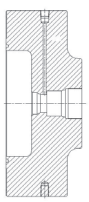
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE23323	HC1904026	214HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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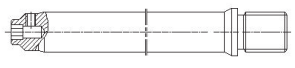
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	Jun,2019
Drawing #:	02040	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	FE24322	RC-06-47	210HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01338	RJ1905022	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02329	RJ1905008-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04327	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-4
Part No.:	02042	Material:	410			Coating:	TC
Description:	7-1/16"10000Psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08337	TXY190517-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05349	C190528T5	Acceptable				
1	FE05321	C190528T5	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16"10000Psi Tail Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23323	HC1904026	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Balance Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24322	RC-06-47	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	**Yi Meng**
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2019.04.11				
Period of validity	2020.04.10				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	**Yi Meng**
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Body					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE01338	RJ1905022	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-2
Part No.:	01916	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE02329	RJ1905008-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-3
Part No.:	02048	Material:	410			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE04327	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-4
Part No.:	02042	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Gate					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1600A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE08337	TXY190517-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.05
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-5
Part No.:	01911	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE05349	C190528T5	Acceptable				
2	FE05321	C190528T5	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.05

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.04
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-6
Part No.:	01905	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi Tail Bonnet					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE23323	HC1904026	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.04

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT180521-7
Part No.:	01903	Material:	410			Coating:	/
Description:	7-1/16 10000Psi Balance stem					Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	FE24322	RC-06-47	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	**Meng Yi**	Organization:	QC Department
Approved by:	**Meng Yi**		
NDT Level:	MT Ⅱ	Date:	2019.06

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HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	LB18-076"CMI585"		Date:	2019.06
Drawing #:	02040	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT180521-1
Part No.:	01904	Material:	4130			Coating:	/
Description:	7-1/16 10000Psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	15000psi	API 6A	1	OK
Seat	10000Psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	FE00338	RJ1905022	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Guo Wei Li	Wei Tang
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

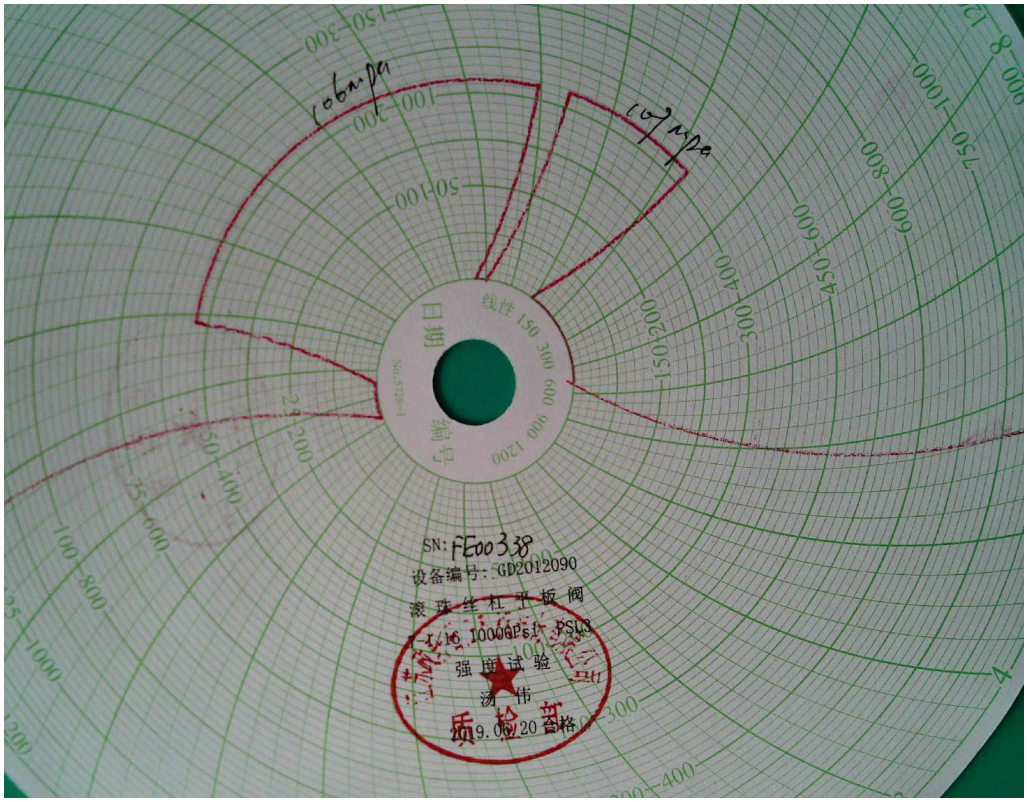
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00338	7-1/16 10000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	109.0Mpa	107.6Mpa	180S	1.4Mpa
2	106.0Mpa	105.7Mpa	900S	0.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.20

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

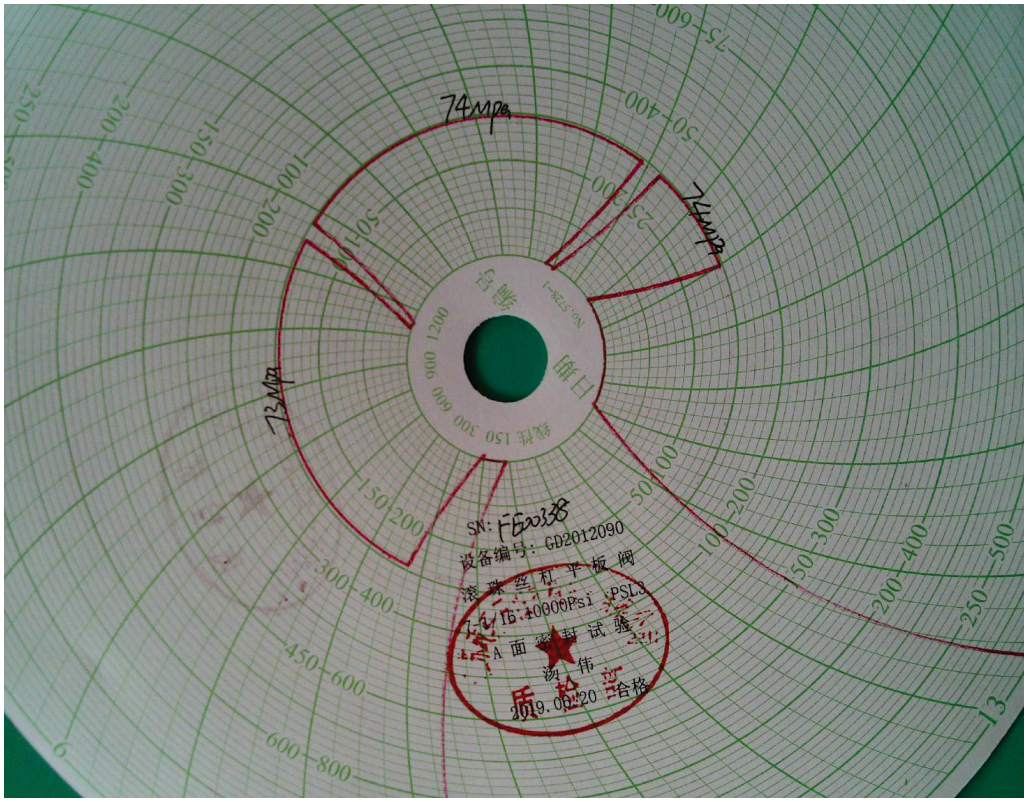
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00338	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	74.0Mpa	72.5Mpa	180S	1.5Mpa
2	74.0Mpa	72.8Mpa	900S	1.2Mpa
3	73.0Mpa	72.4Mpa	900S	0.6Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.20

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

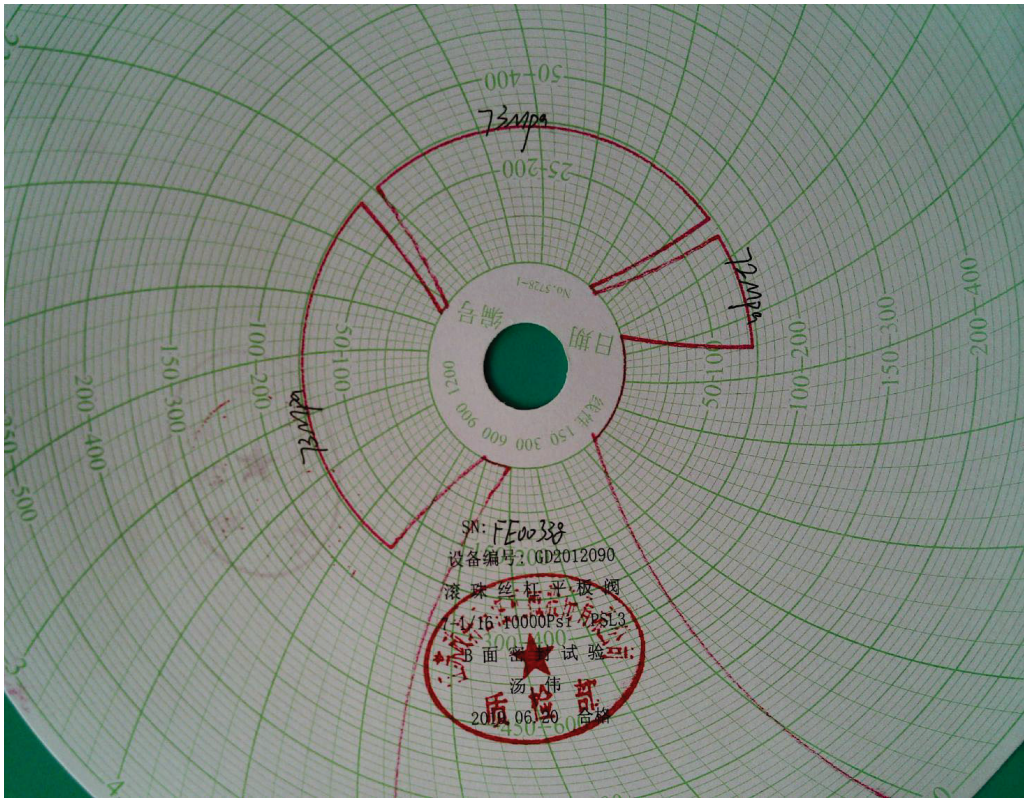
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Ball Screw Gate Valve	FE00338	7-1/16 10000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	72.0Mpa	71.6Mpa	180S	0.4Mpa
2	73.0Mpa	71.9Mpa	900S	1.1Mpa
3	73.0Mpa	71.7Mpa	900S	1.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Wei Tang	Guo Wei Li	2019.06.20

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: /

Quantity: 1EA

Shipment No.: Crate# IA001004

Shipment Date: Jun,2021

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-9
5	Ultrasonic Testing	Page - 10-15
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6	Hydrostatic Test	Page - 22-25

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # / , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: /
SERIAL NO.: IA001004
HEAT TREAT #: HC2103024-03
PART NO.: FC105/103-00
DRAWING NO: FC105/103-01
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Meng Yi

EX-FACTORY DATE: Jun,2021

Customer: _____

P.O. Number: _____/_____

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No.: AV00012

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

Date:Jun,2021

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	/	GATE VALVE	FC105/103-00	IA001004	1	4-1/16"	15000Psi	EE	PSL3	LU	API SPEC 6A

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium
FC105/103-00	BODY	20410367	HC2103024-03	AISI 4130 75K Per ASTM A29	1	IA011004	Forging	870	4.0H	WATER	17	27	670	6.0H	AIR	/	/	/
	BONNET	21500679	HC2103018-03	AISI 4130 75K Per ASTM A29	1	IA021005	Forging	870	4.0H	WATER	17	27	680	5.5H	AIR	/	/	/
	STEM	YX1910-678	HC2103025-08	17-4PH 105K PerASTMA693	1	IA041012	Bar	1040	3.0H	WATER	17	26	630	5.0H	AIR	630	5.0H	AIR
	GATE	191-309	C190425T4	AISI 410 75K PerNACE MR0175	1	15018	Forging	1000	3.0H	OIL	32	36	700	6.0H	AIR	680	6.0H	OIL
	BODY BUSHING	18209112692	HC2103023-08	AISI 410 75K PerNACE MR0175	2	IA051039 IA051040	Bar	960	3.0H	OIL	39	46	720	5.0H	AIR	680	5.0H	AIR
	SEAT	15016015409	1502010-1	AISI 410 75K PerNACE MR0175	2	CB06054 CB06038	Bar	1020	3.0H	OIL	39	48	720	5.0H	AIR	670	4.0H	AIR

Melt No.	H.T. No.	Chemical Analysis (wt, %)													Physical Properties								
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
20410367	HC2103024-03	0.30	0.59	0.31	0.014	0.002	1.07	0.04	0.200	/	/	/	0.03	/	/	¢0.5"x2"	QTC	685.4	593.5	22.0	65.9	66、73、69	211HB	KING-3000
21500679	HC2103018-03	0.32	0.56	0.31	0.015	0.004	1.06	0.04	0.200	/	/	/	0.03	/	/	¢0.5"x2"	QTC	703.6	598.4	24.0	65.9	72、61、80	213HB	KING-3000
YX1910-678	HC2103025-08	0.026	0.48	0.44	0.024	0.001	15.61	4.57	/	/	/	/	3.61	/	/	¢0.5"x2"	QTC	982.4	733.8	20.0	68.6	70、65、70	298HB	KING-3000
191-309	C190425T4	0.12	0.42	0.40	0.023	0.004	12.02	0.19	0.05	/	/	/	/	/	/	¢0.5"x2"	QTC	721.0	531.0	38.0	60.0	59、64、63	225HB	KING-3000
18209112692	HC2103023-08	0.109	0.49	0.44	0.026	0.001	11.78	0.21	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.5	613.9	23.0	61.1	74、68、72	221HB	KING-3000
15016015409	1502010-1	0.11	0.47	0.42	0.021	0.019	11.76	0.02	0.01	/	/	/	/	/	/	¢0.5"x2"	QTC	685.0	530.0	25.5	64.5	60、66、67	229HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
4-1/16" 15000Psi BX155 EE, LU, PSL3, PR1	Shell	155.2Mpa	First Holding time / 3min,Second Holding time / 15min.	/	DIMENSIONS	DRAWINGS	OK
	Seat	103.5Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	/	THREADS	GAUGED	OK
	Seat	103.5Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	/	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

_____Meng Yi_____

NAME of QA Manager, for and on the authority of COMPANY NAME

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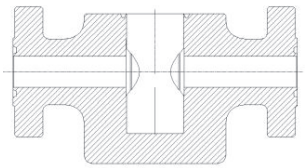
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-1
Part No.:	FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	IA011004	HC2103024-03	216HB/213HB 218HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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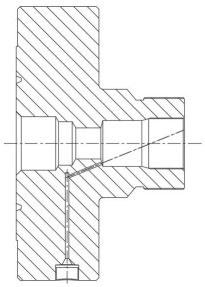
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-2
Part No.:	FC105/103-10	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	IA021005	HC2103018-03	226HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-3
Part No.:	FC105/103-08	Material:	17-4PH 105K,Per ASTM A693			Coating:	/
Description:	4-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	IA041012	HC2103025-08	302HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	277HBW-311HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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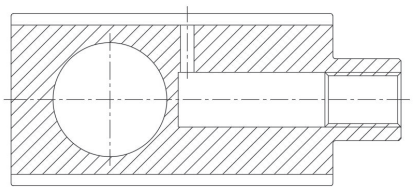
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-4
Part No.:	FC105/103-07	Material:	AISI 410 75K,Per NACE MR0175			Coating:	TC
Description:	4-1/16"15000psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	15018	C190425T4	217HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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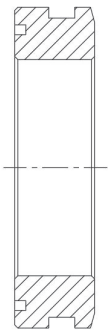
HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-5
Part No.:	FC105/103-04	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	IA051039	HC2103023-08	222HB				
2	IA051040	HC2103023-08	222HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-6
Part No.:	SEA416HLW15M	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi Seat					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	CB06054	1502010-1	212HB				
2	CB06038	1502010-1	217HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT2021021901-1
Part No.:	FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA011004	HC2103024-03	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	Yi Meng
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2021.04.07				
Period of validity	2022.04.06				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	Yi Meng
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT2021021901-2
Part No.:	FC105/103-10	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA021005	HC2103018-03	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	Yi Meng
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2021.04.07				
Period of validity	2022.04.06				
Probe Used:	2.5P¢14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	Yi Meng
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT2021021901-3
Part No.:	FC105/103-08	Material:	17-4PH 105K,Per ASTM A693			Coating:	/
Description:	4-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA041012	HC2103025-08	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	Yi Meng
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2021.04.07				
Period of validity	2022.04.06				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	Yi Meng
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT12021021901-4
Part No.:	FC105/103-07	Material:	AISI 410 75K,Per NACE MR0175			Coating:	TC
Description:	4-1/16"15000psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	15018	C190425T4	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	Yi Meng
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2021.04.07				
Period of validity	2022.04.06				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	Yi Meng
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT2021021901-5
Part No.:	FC105/103-04	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA051039	HC2103023-08	Acceptable				
2	IA051040	HC2103023-08	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	Yi Meng
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2021.04.07				
Period of validity	2022.04.06				
Probe Used:	2.5P¢14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	Yi Meng
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT2021021901-6
Part No.:	SEA416HLW15M	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi Seat					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	CB06054	1502010-1	Acceptable				
2	CB06038	1502010-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	Yi Meng
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2021.04.07				
Period of validity	2022.04.06				
Probe Used:	2.5P¢14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	Yi Meng
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-1
Part No.:	FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi	Body				Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:		API 6A/PSL3	Circular AMPS:		3200A
Test Method:	FluorescenceWet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		≥1000Uw/ cm^2
Stage:	Machined	Concentration:		0.3m/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA011004	HC2103024-03	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	Meng Yi	Organization:	QC Department
Approved by:	Meng Yi		
NDT Level:	MT Ⅱ	Date:	2021.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-2
Part No.:	FC105/103-10	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi	Bonnet				Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:		API 6A/PSL3	Circular AMPS:		3200A
Test Method:	FluorescenceWet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.3m/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA021005	HC2103018-03	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	Meng Yi	Organization:	QC Department
Approved by:	Meng Yi		
NDT Level:	MT Ⅱ	Date:	2021.06

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-3
Part No.:	FC105/103-08	Material:	17-4PH 105K,Per ASTM A693			Coating:	/
Description:	4-1/16"15000psi	Stem				Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA041012	HC2103025-08	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	Meng Yi	Organization:	QC Department
Approved by:	Meng Yi		
NDT Level:	MT Ⅱ	Date:	2021.06

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT12021021901-4
Part No.:	FC105/103-07	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi	Gate				Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:		API 6A/PSL3	Circular AMPS:		3200A
Test Method:	FluorescenceWet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		≥1000Uw/ cm^2
Stage:	Machined	Concentration:		0.3m/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	15018	C190425T4	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	Meng Yi	Organization:	QC Department
Approved by:	Meng Yi		
NDT Level:	MT Ⅱ	Date:	2021.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-5
Part No.:	FC105/103-04	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA051039	HC2103023-08	Acceptable				
2	IA051040	HC2103023-08	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	Meng Yi	Organization:	QC Department
Approved by:	Meng Yi		
NDT Level:	MT Ⅱ	Date:	2021.06

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-6
Part No.:	SEA416HLW15M	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi	Seat				Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	CB06054	1502010-1	Acceptable				
2	CB06038	1502010-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	Meng Yi	Organization:	QC Department
Approved by:	Meng Yi		
NDT Level:	MT Ⅱ	Date:	2021.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT2021021901-1
Part No.:	FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A	1	OK
Seat	15000psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	IA001004	HC2103024-03	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Yong Zhao
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

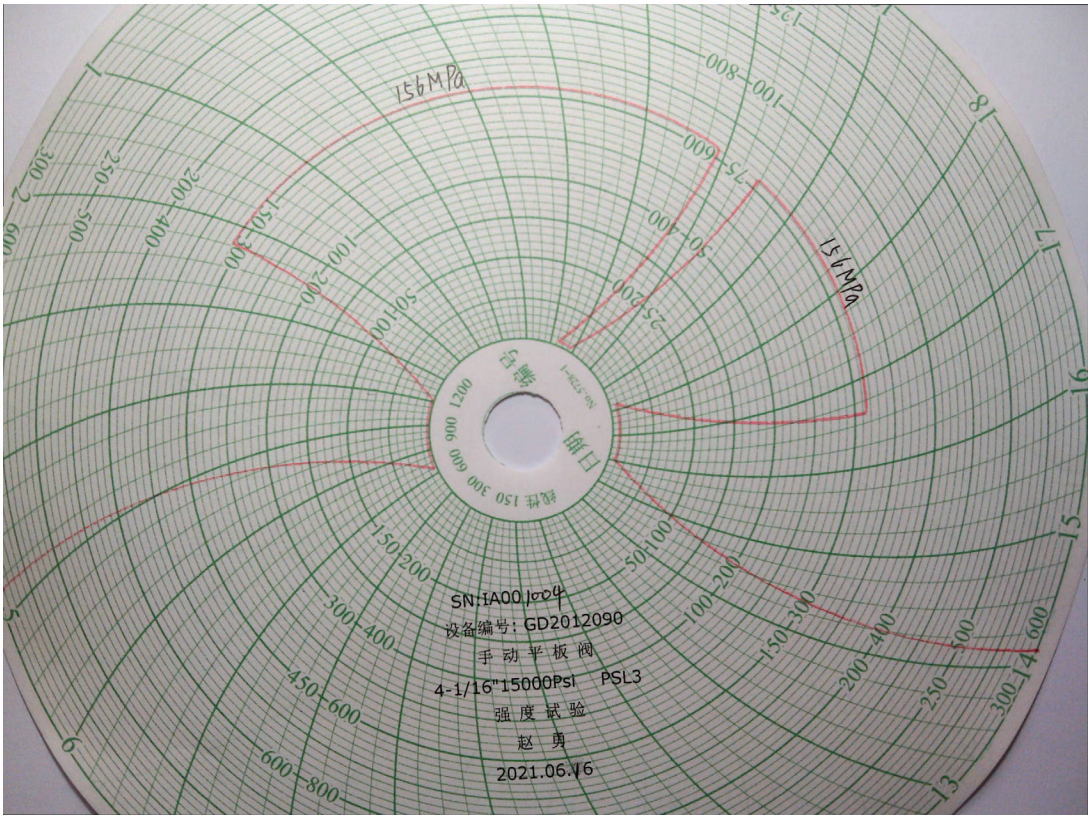
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001004	4-1/16" 15000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	156.0Mpa	155.5Mpa	180S	0.5Mpa
2	156.0Mpa	155.5Mpa	900S	0.5Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.16

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

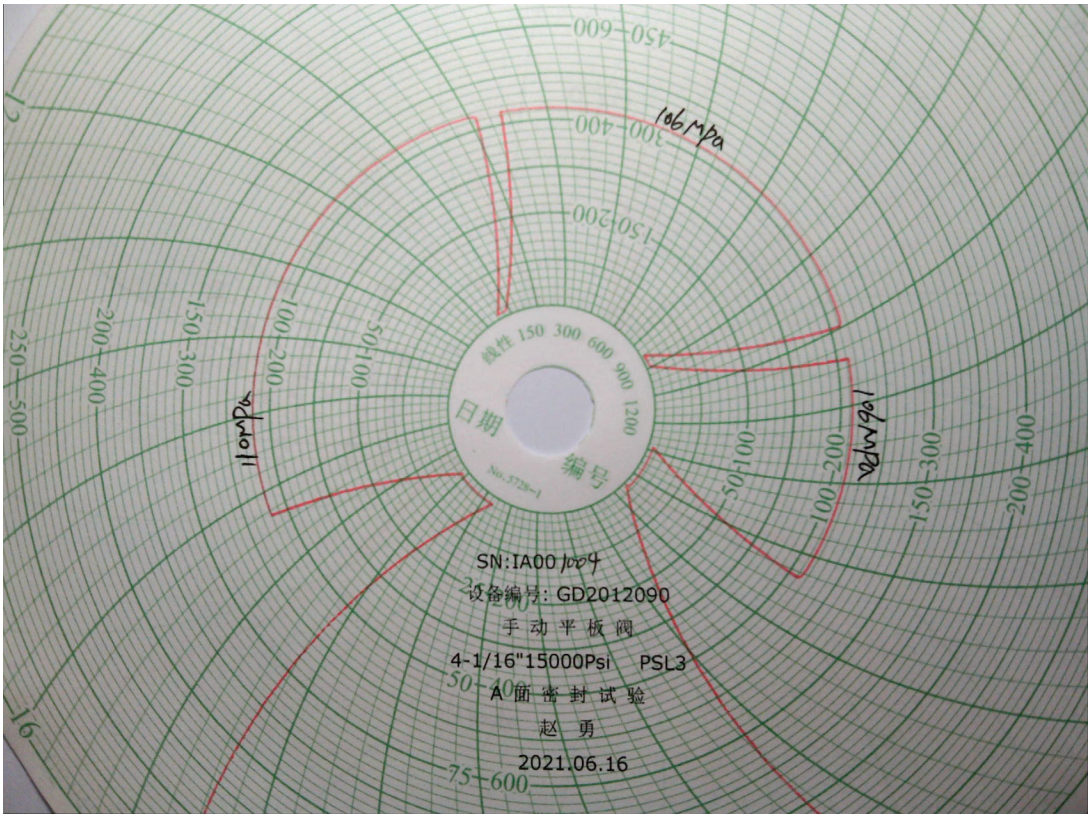
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001004	4-1/16" 15000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	106.0Mpa	105.5Mpa	180S	0.5Mpa
2	106.0Mpa	105.3Mpa	900S	0.7Mpa
3	110.0Mpa	108.5Mpa	900S	1.5Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.16

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

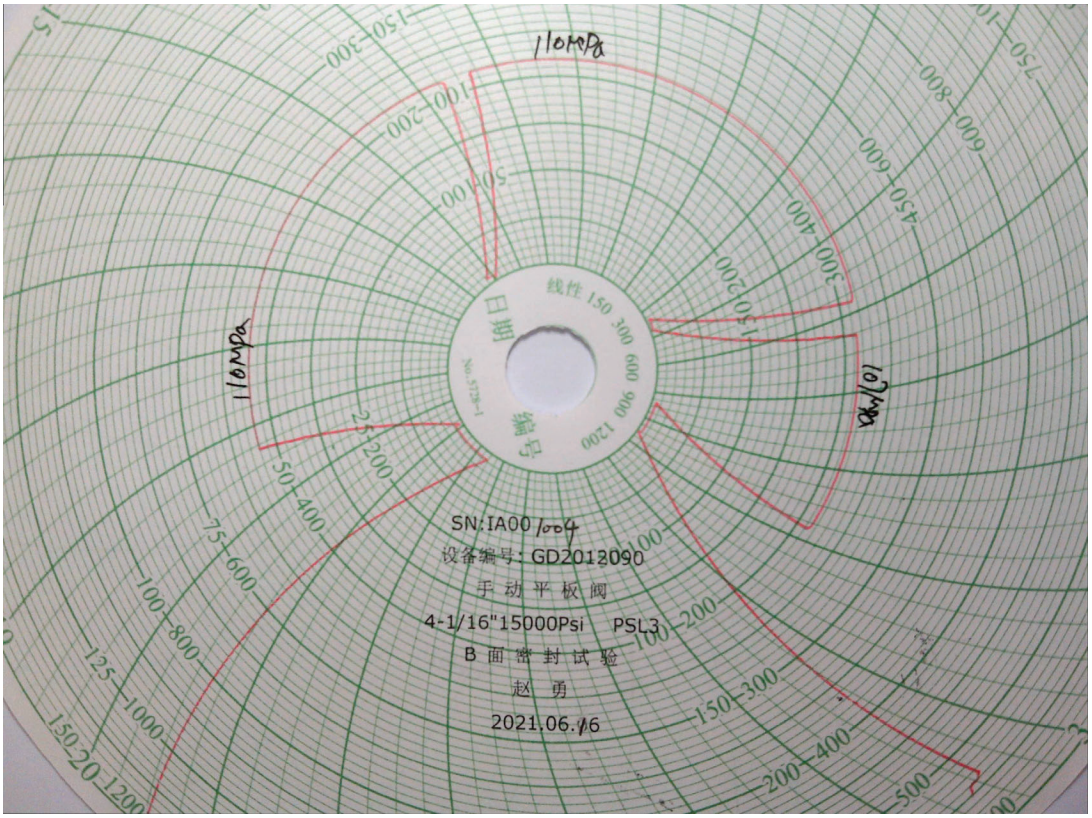
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001004	4-1/16" 15000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	107.0Mpa	106.3Mpa	180S	0.7Mpa
2	110.0Mpa	108.5Mpa	900S	1.5Mpa
3	110.0Mpa	108.7Mpa	900S	1.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.16

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: /

Quantity: 1EA

Shipment No.: Crate# IA001005

Shipment Date: Jun,2021

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-9
5	Ultrasonic Testing	Page - 10-15
6	Magnetic Particle Inspection Report	Page - 16-21
6	Hydrostatic Test	Page - 22-25

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # / , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: /
SERIAL NO.: IA001005
HEAT TREAT #: HC2103024-03
PART NO.: FC105/103-00
DRAWING NO: FC105/103-01
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Meng Yi

EX-FACTORY DATE: Jun,2021

Customer: _____

P.O. Number: _____/_____

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date:Jun,2021

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	/	GATE VALVE	FC105/103-00	IA001005	1	4-1/16"	15000Psi	EE	PSL3	LU	API SPEC 6A

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium
FC105/103-00	BODY	20410367	HC2103024-03	AISI 4130 75K Per ASTM A29	1	IA011005	Forging	870	4.0H	WATER	17	27	670	6.0H	AIR	/	/	/
	BONNET	21500679	HC2103018-03	AISI 4130 75K Per ASTM A29	1	IA021010	Forging	870	4.0H	WATER	17	27	680	5.5H	AIR	/	/	/
	STEM	YX1910-678	HC2103025-08	17-4PH 105K PerASTMA693	1	IA041015	Bar	1040	3.0H	WATER	17	26	630	5.0H	AIR	630	5.0H	AIR
	GATE	191-309	C190425T4	AISI 410 75K PerNACE MR0175	1	15011	Forging	1000	3.0H	OIL	32	36	700	6.0H	AIR	680	6.0H	OIL
	BODY BUSHING	18209112692	HC2103023-08	AISI 410 75K PerNACE MR0175	2	IA051018 IA051029	Bar	960	3.0H	OIL	39	46	720	5.0H	AIR	680	5.0H	AIR
	SEAT	15016015409	1502010-1	AISI 410 75K PerNACE MR0175	2	CB06073 CB06046	Bar	1020	3.0H	OIL	39	48	720	5.0H	AIR	670	4.0H	AIR

Melt No.	H.T. No.	Chemical Analysis (wt, %)													Physical Properties								
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
20410367	HC2103024-03	0.30	0.59	0.31	0.014	0.002	1.07	0.04	0.200	/	/	/	0.03	/	/	¢0.5"x2"	QTC	685.4	593.5	22.0	65.9	66、73、69	211HB	KING-3000
21500679	HC2103018-03	0.32	0.56	0.31	0.015	0.004	1.06	0.04	0.200	/	/	/	0.03	/	/	¢0.5"x2"	QTC	703.6	598.4	24.0	65.9	72、61、80	213HB	KING-3000
YX1910-678	HC2103025-08	0.026	0.48	0.44	0.024	0.001	15.61	4.57	/	/	/	/	3.61	/	/	¢0.5"x2"	QTC	982.4	733.8	20.0	68.6	70、65、70	298HB	KING-3000
191-309	C190425T4	0.12	0.42	0.40	0.023	0.004	12.02	0.19	0.05	/	/	/	/	/	/	¢0.5"x2"	QTC	721.0	531.0	38.0	60.0	59、64、63	225HB	KING-3000
18209112692	HC2103023-08	0.109	0.49	0.44	0.026	0.001	11.78	0.21	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.5	613.9	23.0	61.1	74、68、72	221HB	KING-3000
15016015409	1502010-1	0.11	0.47	0.42	0.021	0.019	11.76	0.02	0.01	/	/	/	/	/	/	¢0.5"x2"	QTC	685.0	530.0	25.5	64.5	60、66、67	229HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
4-1/16" 15000Psi BX155 EE, LU, PSL3, PR1	Shell	155.2Mpa	First Holding time / 3min,Second Holding time / 15min.	/	DIMENSIONS	DRAWINGS	OK
	Seat	103.5Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	/	THREADS	GAUGED	OK
	Seat	103.5Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	/	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

_____Meng Yi_____

NAME of QA Manager, for and on the authority of COMPANY NAME

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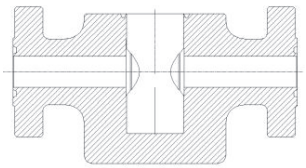
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-1
Part No.:	FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	IA011005	HC2103024-03	224HB/221HB 223HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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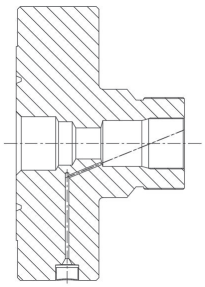
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-2
Part No.:	FC105/103-10	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	IA021010	HC2103018-03	222HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-3
Part No.:	FC105/103-08	Material:	17-4PH 105K,Per ASTM A693			Coating:	/
Description:	4-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	IA041015	HC2103025-08	288HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	277HBW-311HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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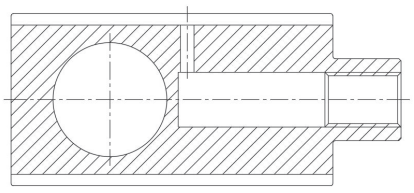
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-4
Part No.:	FC105/103-07	Material:	AISI 410 75K,Per NACE MR0175			Coating:	TC
Description:	4-1/16"15000psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	15011	C190425T4	227HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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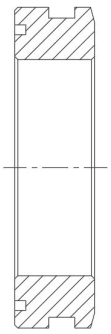
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-5
Part No.:	FC105/103-04	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	IA051018	HC2103023-08	212HB				
2	IA051029	HC2103023-08	219HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-6
Part No.:	SEA416HLW15M	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi Seat					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	CB06073	1502010-1	217HB				
2	CB06046	1502010-1	223HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT2021021901-1
Part No.:	FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA011005	HC2103024-03	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	Yi Meng
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2021.04.07				
Period of validity	2022.04.06				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	Yi Meng
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT2021021901-2
Part No.:	FC105/103-10	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA021010	HC2103018-03	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	Yi Meng
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2021.04.07				
Period of validity	2022.04.06				
Probe Used:	2.5P¢14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	Yi Meng
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT2021021901-3
Part No.:	FC105/103-08	Material:	17-4PH 105K,Per ASTM A693			Coating:	/
Description:	4-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA041015	HC2103025-08	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	Yi Meng
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2021.04.07				
Period of validity	2022.04.06				
Probe Used:	2.5P℄14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	Yi Meng
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT12021021901-4
Part No.:	FC105/103-07	Material:	AISI 410 75K,Per NACE MR0175			Coating:	TC
Description:	4-1/16"15000psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	15011	C190425T4	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	Yi Meng
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2021.04.07				
Period of validity	2022.04.06				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	Yi Meng
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT2021021901-5
Part No.:	FC105/103-04	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi Body Bushing					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA051018	HC2103023-08	Acceptable				
2	IA051029	HC2103023-08	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	Yi Meng
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2021.04.07				
Period of validity	2022.04.06				
Probe Used:	2.5P¢14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	Yi Meng
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT2021021901-6
Part No.:	SEA416HLW15M	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi Seat					Quantity:	2

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	CB06073	1502010-1	Acceptable				
2	CB06046	1502010-1	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	Yi Meng
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2021.04.07				
Period of validity	2022.04.06				
Probe Used:	2.5P¢14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	Yi Meng
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-1
Part No.:	FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi	Body				Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:		API 6A/PSL3	Circular AMPS:		3200A
Test Method:	FluorescenceWet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2
Stage:	Machined	Concentration:		0.3m/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA011005	HC2103024-03	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	Meng Yi	Organization:	QC Department
Approved by:	Meng Yi		
NDT Level:	MT Ⅱ	Date:	2021.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-2
Part No.:	FC105/103-10	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi	Bonnet				Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:		API 6A/PSL3	Circular AMPS:		3200A
Test Method:	FluorescenceWet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		≥1000Uw/ cm^2
Stage:	Machined	Concentration:		0.3m/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA021010	HC2103018-03	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	Meng Yi	Organization:	QC Department
Approved by:	Meng Yi		
NDT Level:	MT Ⅱ	Date:	2021.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-3
Part No.:	FC105/103-08	Material:	17-4PH 105K,Per ASTM A693			Coating:	/
Description:	4-1/16"15000psi	Stem				Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA041015	HC2103025-08	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	Meng Yi	Organization:	QC Department
Approved by:	Meng Yi		
NDT Level:	MT Ⅱ	Date:	2021.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT12021021901-4
Part No.:	FC105/103-07	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi	Gate				Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:		API 6A/PSL3	Circular AMPS:		3200A
Test Method:	FluorescenceWet Continuous	Particle Type:		Fluorescence	UV-Light Intensity:		≥1000Uw/ cm^2
Stage:	Machined	Concentration:		0.3m/100ml	Magnetizing Time:		1-3S

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	15011	C190425T4	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	Meng Yi	Organization:	QC Department
Approved by:	Meng Yi		
NDT Level:	MT Ⅱ	Date:	2021.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-5
Part No.:	FC105/103-04	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi Body Bushing					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA051018	HC2103023-08	Acceptable				
2	IA051029	HC2103023-08	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	Meng Yi	Organization:	QC Department
Approved by:	Meng Yi		
NDT Level:	MT Ⅱ	Date:	2021.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-6
Part No.:	SEA416HLW15M	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi	Seat				Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:		⩾1000Uw/ cm^2	
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:		1-3S	

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	CB06073	1502010-1	Acceptable				
2	CB06046	1502010-1	Acceptable				

Sketch/Inspection Coverage:

Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.

Evaluation & Disposition:	Found to be satisfactory		
Inspected by:	Meng Yi	Organization:	QC Department
Approved by:	Meng Yi		
NDT Level:	MT Ⅱ	Date:	2021.06

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API 6A-20	API Monogram:	6A-1748	Report #:	HT2021021901-1
Part No.:	FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi					Quantity:	1

Item	Pressure	Method	Qty	Result
Shell	22500psi	API 6A	1	OK
Seat	15000psi	API 6A	1	OK

Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result	
			A	B				A	B
1	IA001005	HC2103024-03	OK	OK					

Sketch/Inspection Coverage:

Per Specification & Requirements: API 6A

		Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Yong Zhao
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

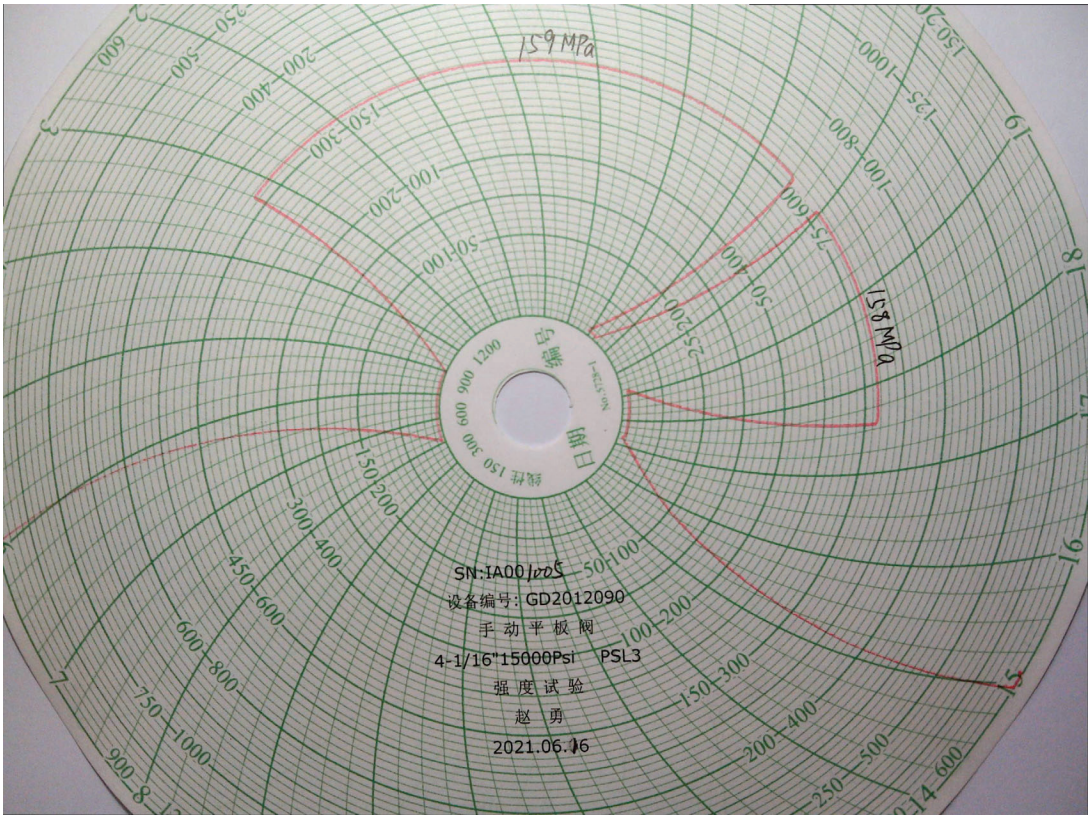
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001005	4-1/16" 15000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	158.0Mpa	157.1Mpa	180S	0.9Mpa
2	159.0Mpa	157.9Mpa	900S	1.1Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.16

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

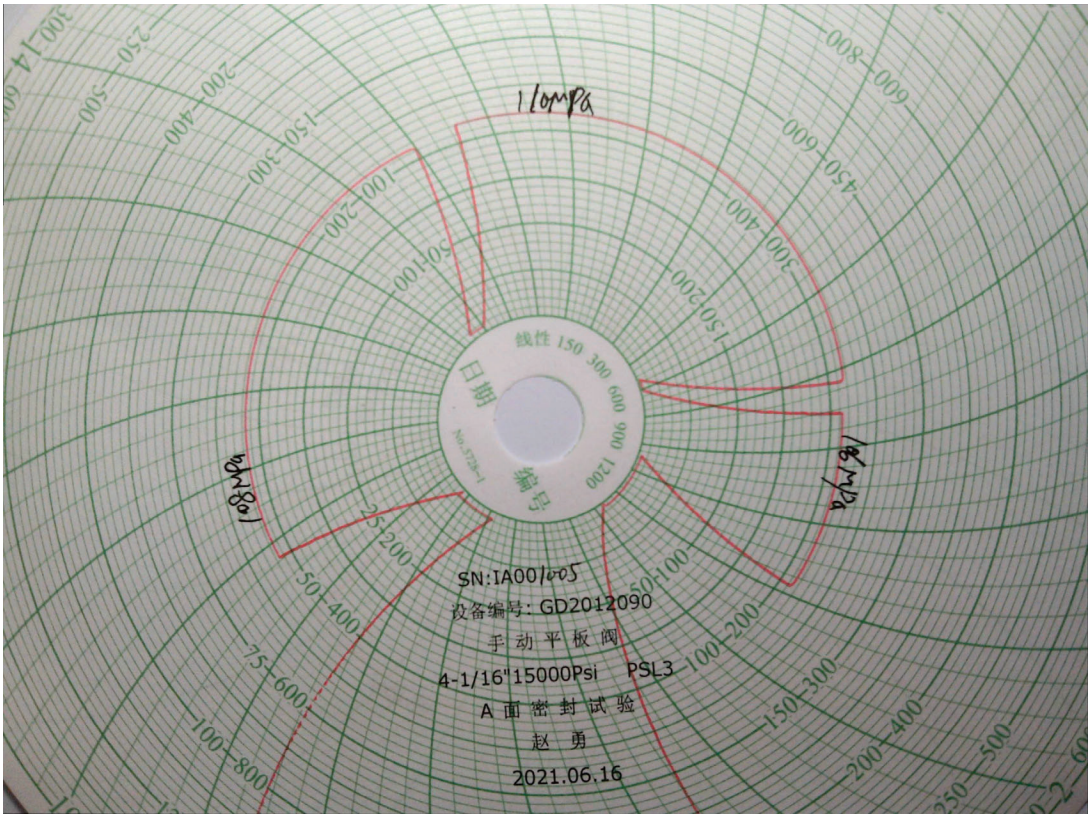
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001005	4-1/16" 15000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	106.0Mpa	105.7Mpa	180S	0.3Mpa
2	110.0Mpa	108.8Mpa	900S	1.2Mpa
3	108.0Mpa	107.2Mpa	900S	0.8Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.16

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

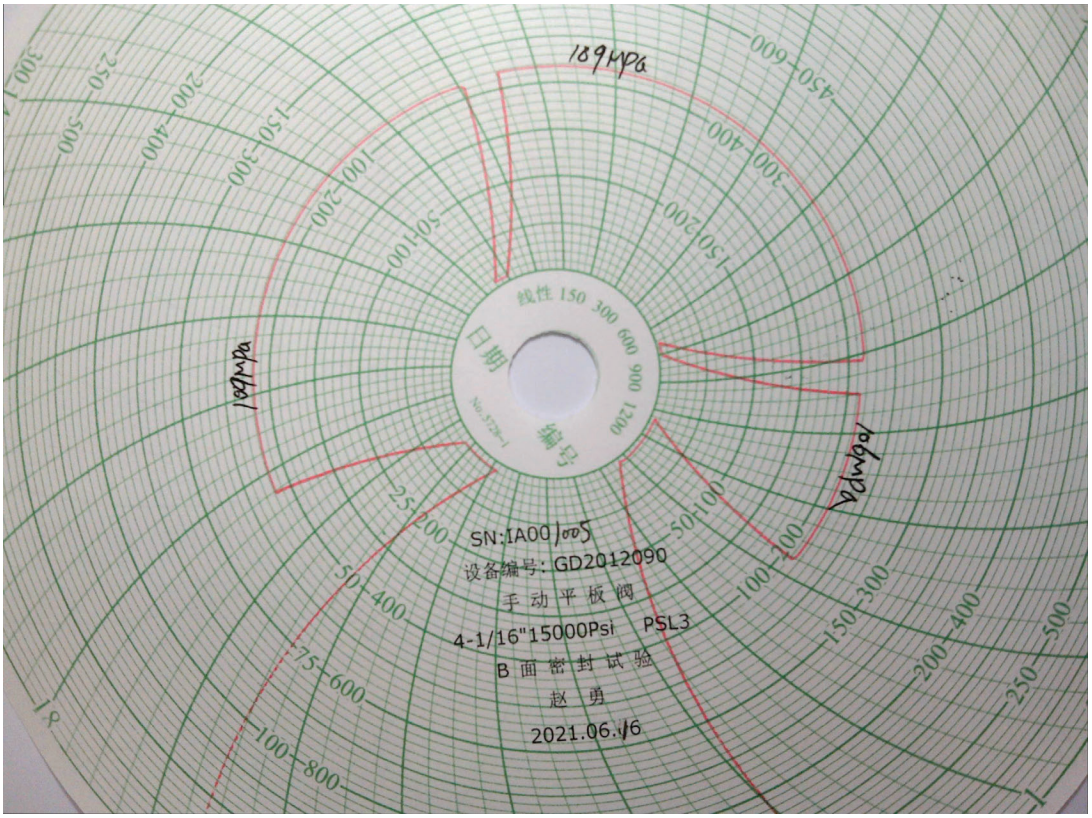
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001005	4-1/16" 15000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	106.0Mpa	105.5Mpa	180S	0.5Mpa
2	109.0Mpa	107.7Mpa	900S	1.3Mpa
3	109.0Mpa	107.9Mpa	900S	1.1Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.16

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: /

Quantity: 1EA

Shipment No.: Crate# IA001006

Shipment Date: Jun,2021

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-9
5	Ultrasonic Testing	Page - 10-15
6	Magnetic Particle Inspection Report	Page - 16-21
6	Hydrostatic Test	Page - 22-25

CERTIFICATE OF CONFORMITY

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # / , DRAWINGS AND ITS TECHNICAL REQUIREMENTS. IT IS MADE PER API – 6A MONOGRAM SPECIFICATIONS, EE CLASS, PSL3, PR1, LU. AND IT IS MADE OF MATERIAL (4130,75K YIELD) FOR NACE H2S SERVICE UNDER THE CURRENT NACE MR0175 EDITION.

ITEM:
PO #: /
SERIAL NO.: IA001006
HEAT TREAT #: HC2103024-03
PART NO.: FC105/103-00
DRAWING NO: FC105/103-01
QANTITY: 1
INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

THIS COMMODITY HAS PASSED ALL THE TECHNICAL AND PERFORMANCE TESTS CARRIED BY QUALITY CONTROL/INSPECTION DEPARTMENT.

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Meng Yi

EX-FACTORY DATE: Jun,2021

Customer: _____

P.O. Number: _____/_____

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date:Jun,2021

Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications
	/	GATE VALVE	FC105/103-00	IA001006	1	4-1/16"	15000Psi	EE	PSL3	LU	API SPEC 6A

Description						Melting Practice		Heat Treatment											
								Austenized		Quenched			Temper(1)			Temper(2)			
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (℃)	Time (min)	Medium	Start Temp	Finish Temp	Temp (℃)	Time (min)	Medium	Temp (℃)	Time (min)	Medium
FC105/103-00	BODY	20410367	HC2103024-03	AISI 4130 75K Per ASTM A29	1	IA011006	Forging	870	4.0H	WATER	17	27	670	6.0H	AIR	/	/	/
	BONNET	21500679	HC2103018-03	AISI 4130 75K Per ASTM A29	1	IA021009	Forging	870	4.0H	WATER	17	27	680	5.5H	AIR	/	/	/
	STEM	YX1910-678	HC2103025-08	17-4PH 105K PerASTMA693	1	IA041014	Bar	1040	3.0H	WATER	17	26	630	5.0H	AIR	630	5.0H	AIR
	GATE	191-309	C190425T4	AISI 410 75K PerNACE MR0175	1	15005	Forging	1000	3.0H	OIL	32	36	700	6.0H	AIR	680	6.0H	OIL
	BODY BUSHING	18209112692	HC2103023-08	AISI 410 75K PerNACE MR0175	2	IA051028 IA051011	Bar	960	3.0H	OIL	39	46	720	5.0H	AIR	680	5.0H	AIR
	SEAT	15016015409	1502010-1	AISI 410 75K PerNACE MR0175	2	CB06074 CB06085	Bar	1020	3.0H	OIL	39	48	720	5.0H	AIR	670	4.0H	AIR

Melt No.	H.T. No.	Chemical Analysis (wt, %)													Physical Properties								
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact(-46℃) Impact direction (Transverse)	Hardness	Equipment Type
20410367	HC2103024-03	0.30	0.59	0.31	0.014	0.002	1.07	0.04	0.200	/	/	/	0.03	/	/	¢0.5"x2"	QTC	685.4	593.5	22.0	65.9	66、73、69	211HB	KING-3000
21500679	HC2103018-03	0.32	0.56	0.31	0.015	0.004	1.06	0.04	0.200	/	/	/	0.03	/	/	¢0.5"x2"	QTC	703.6	598.4	24.0	65.9	72、61、80	213HB	KING-3000
YX1910-678	HC2103025-08	0.026	0.48	0.44	0.024	0.001	15.61	4.57	/	/	/	/	3.61	/	/	¢0.5"x2"	QTC	982.4	733.8	20.0	68.6	70、65、70	298HB	KING-3000
191-309	C190425T4	0.12	0.42	0.40	0.023	0.004	12.02	0.19	0.05	/	/	/	/	/	/	¢0.5"x2"	QTC	721.0	531.0	38.0	60.0	59、64、63	225HB	KING-3000
18209112692	HC2103023-08	0.109	0.49	0.44	0.026	0.001	11.78	0.21	/	/	/	/	/	/	/	¢0.5"x2"	QTC	730.5	613.9	23.0	61.1	74、68、72	221HB	KING-3000
15016015409	1502010-1	0.11	0.47	0.42	0.021	0.019	11.76	0.02	0.01	/	/	/	/	/	/	¢0.5"x2"	QTC	685.0	530.0	25.5	64.5	60、66、67	229HB	KING-3000

Markings	Hydrostatic Test				Other Inspections		
	Item	Pressure	Method	Result	Inspection	Per Spec & Requirements	Result
4-1/16" 15000Psi BX155 EE, LU, PSL3, PR1	Shell	155.2Mpa	First Holding time / 3min,Second Holding time / 15min.	/	DIMENSIONS	DRAWINGS	OK
	Seat	103.5Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	/	THREADS	GAUGED	OK
	Seat	103.5Mpa	First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.	/	HARDNESS TESS	DRAWINGS	OK
					DRIFT TEST	API 6A	OK

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

_____Meng Yi_____

NAME of QA Manager, for and on the authority of COMPANY NAME

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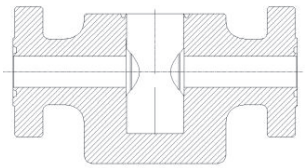
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-1
Part No.:	FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	IA011006	HC2103024-03	209HB/207HB 214HB				

Sketch:



Method Used:	Impact Energy：3000Kg.	Diameter of steel ball：10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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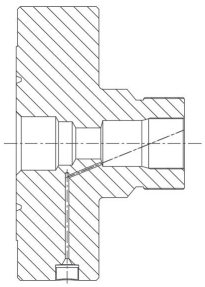
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-2
Part No.:	FC105/103-10	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi Bonnet					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	IA021009	HC2103018-03	222HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-3
Part No.:	FC105/103-08	Material:	17-4PH 105K,Per ASTM A693			Coating:	/
Description:	4-1/16"15000psi Stem					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	IA041014	HC2103025-08	288HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	277HBW-311HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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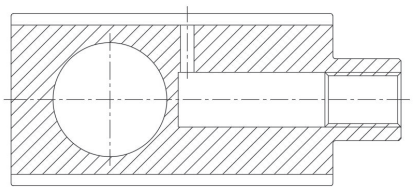
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-4
Part No.:	FC105/103-07	Material:	AISI 410 75K,Per NACE MR0175			Coating:	TC
Description:	4-1/16"15000psi Gate					Quantity:	1

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	15005	C190425T4	212HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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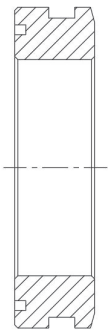
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-5
Part No.:	FC105/103-04	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi Body bushing					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	IA051028	HC2103023-08	219HB				
2	IA051011	HC2103023-08	230HB				

Sketch:



Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[ ] Does Not Conform		

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HARDNESS TEST REPORT

Customer:			Customer PO#:	/		Date:	Jun,2021
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E10	API Monogram:	6A-1748	Report #:	H2021021901-6
Part No.:	SEA416HLW15M	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi Seat					Quantity:	2

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	CB06074	1502010-1	217HB				
2	CB06085	1502010-1	229HB				

Sketch:

Method Used:	Impact Energy：3000Kg. Diameter of steel ball：10mm		
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM A388	API Monogram:	6A-1748	Report #:	UT2021021901-1
Part No.:	FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi Body					Quantity:	1

Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA011006	HC2103024-03	Acceptable				

Sketch:

ABOVE FORGED ARE TESTED ULTRASONICALLY FOR INTERNAL DEFECTS, AND THERE WAS NO RECORDABLE INDICATION OBSERVED DURING THE TEST. HENCE ACCEPTABLE AS PER STANDARD.

UT Code:	ASME SECTION 5	Technique:	Straight/Contact	Examined By:	Yi Meng
Exam. Stage:	Rough After	Calibration:	Block：CSK-ⅠA&CS-1-5	Level as per UT:	Ⅱ
Equipment:	SUB110	Couplant:	OIL		
Date of calibration	2021.04.07				
Period of validity	2022.04.06				
Probe Used:	2.5P∅14	Acceptance Criteria:	API 6A PSL3 EE LU	Approved by:	Yi Meng
Instrmt/Ident.#:		Test Gain:	20db+4db	Level as per UT:	Ⅱ