



安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	2022
Drawing #:	PFFY105/130AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1014-00 4
Part No.:	X-111144-01	Material:	PH17-4 105K			Coating:	/
Description:	5-1/8"15000psi Balance Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP033489	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1107-003	
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"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/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	AP033472	RS-10-023	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:		2022.11		



MAGNETIC PARTICLE INSPECTION REPORT

Inspection Coverage:

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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:	2022.10



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	H220925-06	
Part No.:	X-275174-01	Material:	AISI 410 75K			Coating:	/	
Description:	5-1/8"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	AP033435	22091002Q1	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:	2022.09			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	H220925-06H	
Part No.:	X-275174-01	Material:	AISI 410 75K			Coating:	WC	
Description:	5-1/8"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	AP033435	22091002Q1	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:	2022.09			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	H220925-04	
Part No.:	X-111077-01	Material:	AISI 410 75K				Coating:	/	
Description:	5-1/8"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/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	AP033501	22091002Q1	Acceptable						
2	AP033453	22091002Q1	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:		2022.09		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	H220925-04H	
Part No.:	X-111077-01	Material:	AISI 410 75K			Coating:	WC	
Description:	5-1/8"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	AP033501	22091002Q1	Acceptable					
2	AP033453	22091002Q1	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:		2022.09		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ASTM E165		API Monogram:	6A-2074	Report #:	PTP-1023-001	
Part No.:	X-111144-01	Material:	PH17-4-105K				Coating:	/	
Description:	5-1/8"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	AP033489	HY220918-2	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:	2022.10			



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:		Customer PO#:	1336	Date:	November, 2022		
Drawing #:	PFFY105/130 AL-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP033F040
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/
Description:	5-1/8"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	AP033472	RS-10-023	OK	OK					

Drift Test:

Diameter ϕ 102.46 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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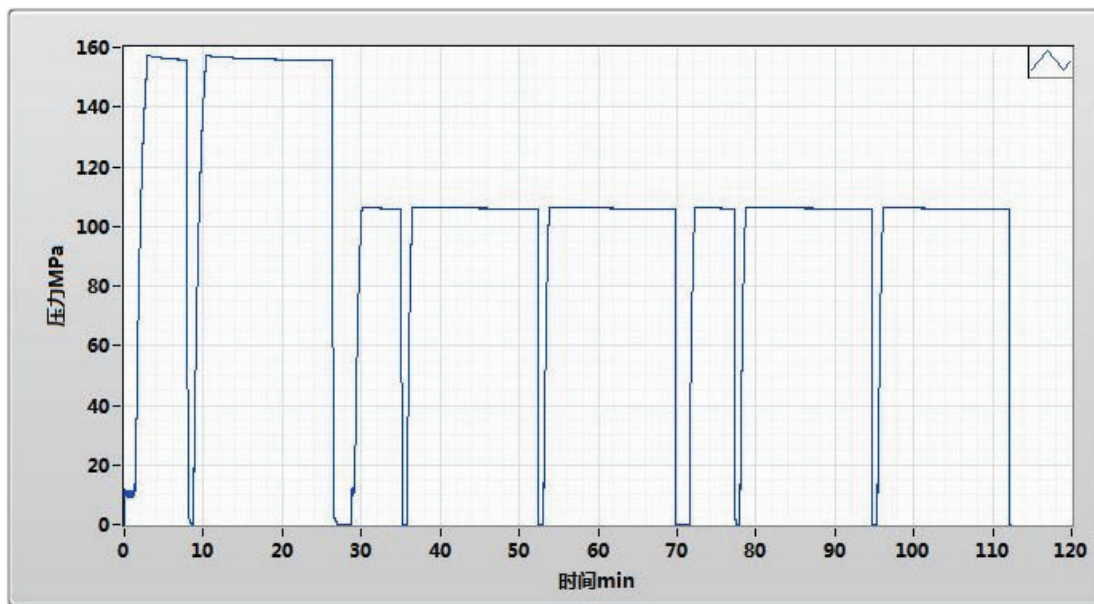
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP033F040	5-1/8" 15000Psi	API 6A 21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.77	155.75	4.0	1.02
2	156.95	155.59	15.0	1.37
3	106.12	105.94	4.0	0.18
4	106.33	105.93	15.0	0.41
5	106.32	105.92	15.0	0.40
6	106.21	105.95	4.0	0.26
7	106.34	105.88	15.0	0.46
8	106.27	105.77	15.0	0.50



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.11.11



REPORT INDEX

Purchase Order: 1336

Quantity: 1EA

Shipment No.: Crate# AP033F041

Shipment Date: November, 2022

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 - 4-11
4	Ultrasonic Testing	Page - 12-15
5	Magnetic Particle Inspection Report	Page - 16-23
6	Hydrostatic Test	Page - 24-25



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CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1336, 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 #: 1336

SERIAL NO.: AP033F041

PART NO.: PFFY105/130AL-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:

INSPECTOR:Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: November, 2022

Customer: _____

P.O. Number: 1336



安澜科技（江苏）股份有限公司

No.: AV00012

Date:November, 2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Customer		PO No.	Description		Product			P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications								
		1336			HYDRAULIC GATE VALVE			PFFY105/130AL-00	AP033F041	1	5-1/8"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st								
P/N	Parts	Melt No.	H.T. No.	Melting Practice			Austenized			Quenched			Heat Treatment			Temper(2)								
				Material Spec Standards	Q	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)							
PFFY105/130A L-00	BODY	TX21-01970	RC-0927-087	AISI 4130 75K,Per ASTM A29	1	AP033319	Forging	870	4.2H	WATER	20	25	665	7.0H	AIR	/	/							
	BONNET	TX21-01970	RS-9-072	AISI 4130 75K,Per ASTM A29	1	AP033476	Forging	860	5.0H	WATER	33	35	700	5.0H	AIR	/	/							
	STEM	YX2208-2019	HY220918-2	PH17-4 105K,Per ASTM A564/564M	1	AP033392	Forging	1030	3.5H	WATER	26	29	630	5.0H	AIR	5.0H	AIR							
	BALANCE STEM	YX2206-1508	HY220918-2	PH17-4 105K,Per ASTM A564/564M	1	AP033407	Forging	1030	3.5H	WATER	26	29	630	5.0H	AIR	5.0H	AIR							
	GATE	2015802331	22091002Q1	AISI 410 75K,Per ASTM A276/276M	1	AP033436	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	5.5H	AIR							
	BODY BUSHING	2015802331	22091002Q1	AISI 410 75K,Per ASTM A276/276M	2	AP033447 AP033500	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	5.5H	AIR							
Chemical Analysis (wt. %)																								
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Physical Properties								
		Spec	Size	Yield	Tensile	Elongatio	ROA (%)	Impact (-46°C)	Hardness	Equipment														
TX21-01970	RC-0927-087	0.32	0.64	0.24	0.013	0.003	0.99	0.21	0.207	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	705	530	33.0	62.0	32/41/56	231HBW	JBW-300B/ WDW-300
TX21-01970	RS-9-072	0.32	0.64	0.24	0.013	0.003	0.99	0.21	0.207	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	691	538	28.0	70.0	75/80/78	229HBW	JBW-300B/ WDW-300
YX2208-2019	HY220918-2	0.026	0.47	0.40	0.027	0.002	15.60	4.15	/	/	/	/	3.64	0.244	/	ø 80x200	QTC	1075	942	20.0	61.6	44/39/40	32HRC	JBW-300B/ WDW-300
YX2206-1508	HY220918-2	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	/	3.63	0.231	/	ø 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/ WDW-300
2015802331	22091002Q1	0.11	0.39	0.36	0.018	0.003	11.66	0.09	0.04	/	/	/	0.05	/	/	200x100x100	QTC	710	555	26.5	68.0	/	217HBW	JBW-300B/ WDW-300
2015802331	22091002Q1	0.11	0.39	0.36	0.018	0.003	11.66	0.09	0.04	/	/	/	0.05	/	/	200x100x100	QTC	710	555	26.5	68.0	/	217HBW	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



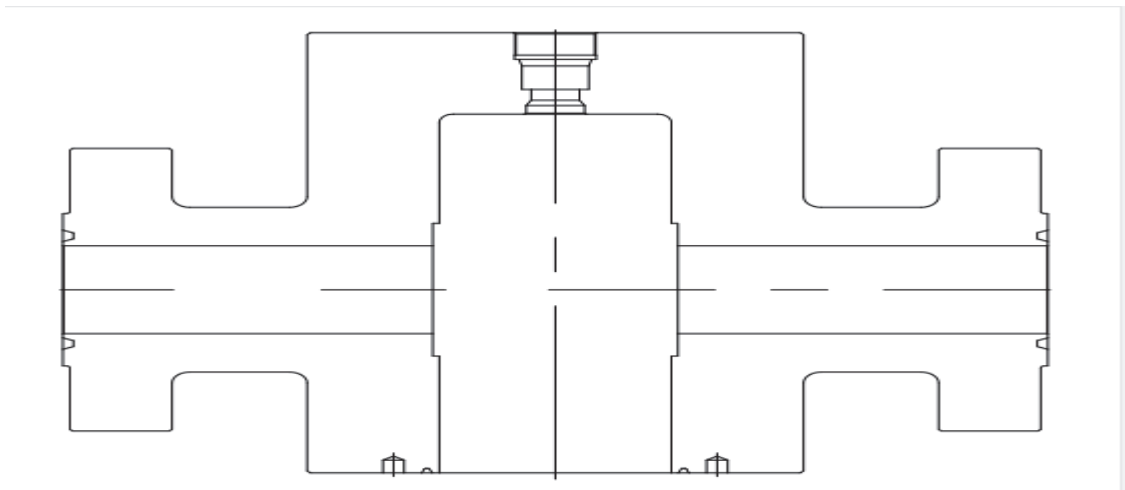
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
							2022
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1108-00 2
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/
Description:	5-1/8"15000psi	Body				Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033319	RC-0927-087	210HBW/218HBW 221HBW/214HBW				

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



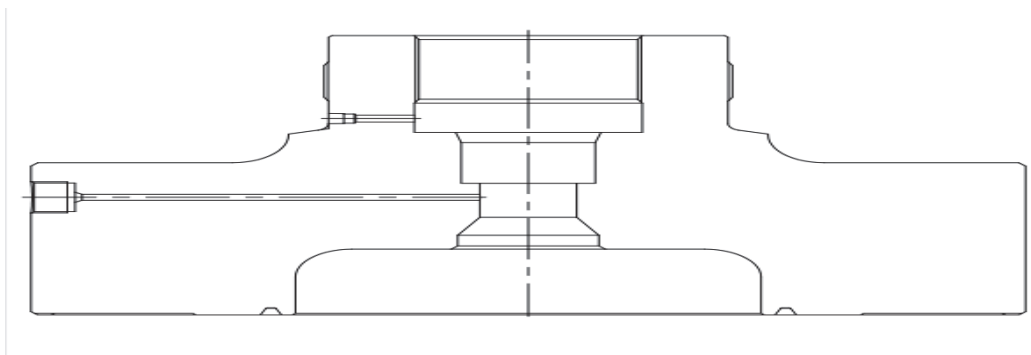
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	2022
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1010-001	
Part No.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"15000psi Bonnet					Quantity:	1	
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness	
1	AP033476	RS-9-072	219HBW/221HBW					

Sketch:



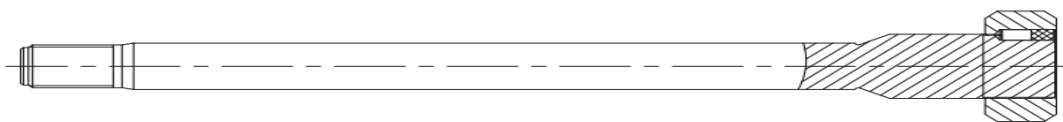
Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms [] Does Not Conform	Xin zheng	Zhengguo Yao



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Sketch:



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



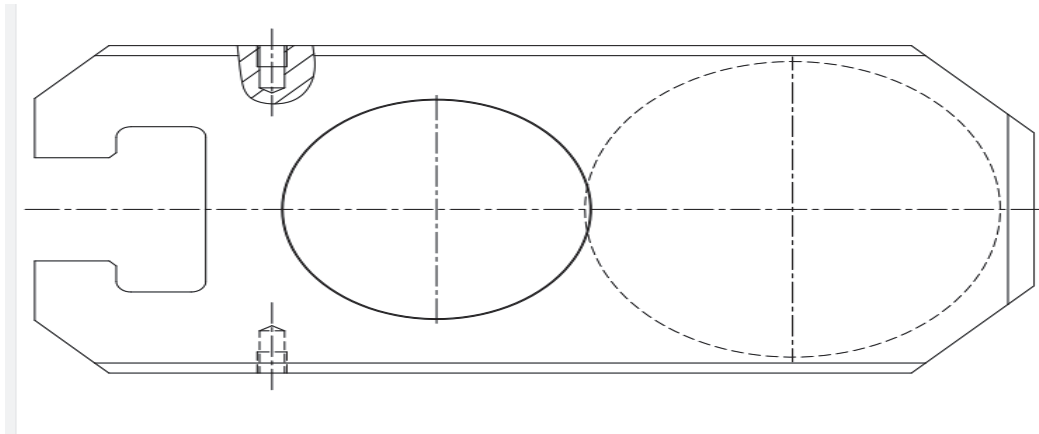
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	2022
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20220925-01
Part No.:	X-275174-01	Material:	AISI 410 75K			Coating:	/
Description:	5-1/8"15000psi Gate					Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033436	22091002Q1	212HBW				

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



HARDNESS TEST REPORT

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:		Date:					
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20220925-08		
Part No.:	X-111077-01	Material:	AISI 410 75K	Coating:	WC	Description:	5-1/8"15000psi Body bushing	Quantity:	2
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness		
1	AP033447	22091002Q1	1269HV						
2	AP033500	22091002Q1	1258HV						
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							



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

A technical drawing of a bolt and nut assembly in perspective view. The bolt is a long, cylindrical fastener with a hexagonal head on the left and a hexagonal nut on the right. A dashed line runs through the center of the bolt, indicating its longitudinal axis. The drawing is a black and white line drawing with no shading or texture.

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#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1003-005		
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/		
Description:	5-1/8"15000psi Body					Quantity:	1		
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result		
1	AP033319	RC-0927-087	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 FBH Block		Level as per UT:	II			
Equipment:	MUT-800C	Couplant:	OIL						
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+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.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"15000psi Bonnet					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP033476	RS-9-072	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL					
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1007-00 3	
Part No.:	X-275071-01	Material:	PH17-4 105K			Coating:	/	
Description:	5-1/8"15000psi Stem					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP033392	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C		Couplant:	OIL				
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

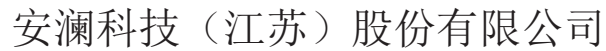


安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	2022
Drawing #:	PFFY105/130AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1014-00 4
Part No.:	X-111144-01	Material:	PH17-4 105K			Coating:	/
Description:	5-1/8"15000psi Balance Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP033407	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



MAGNETIC PARTICLE INSPECTION REPORT

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1010-002	
Part No.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"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/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	AP033476	RS-9-072	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:		2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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:	2022.10



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	H220925-06	
Part No.:	X-275174-01	Material:	AISI 410 75K			Coating:	/	
Description:	5-1/8"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:		$\geqslant 1000\text{Uw/cm}^2$	
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	AP033436	22091002Q1	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:	2022.09			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	H220925-06H	
Part No.:	X-275174-01	Material:	AISI 410 75K			Coating:	WC	
Description:	5-1/8"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	AP033436	22091002Q1	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:		2022.09		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	H220925-04	
Part No.:	X-111077-01	Material:	AISI 410 75K				Coating:	/	
Description:	5-1/8"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/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	AP033447	22091002Q1	Acceptable						
2	AP033500	22091002Q1	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:		2022.09		



LIQUID PENETRATE EXAMINATION

23



LIQUID PENETRATE EXAMINATION

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安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP033F041		
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/		
Description:	5-1/8"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	AP033319	RC-0927-087	OK	OK					

Drift Test:

Diameter ϕ 102.46 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		



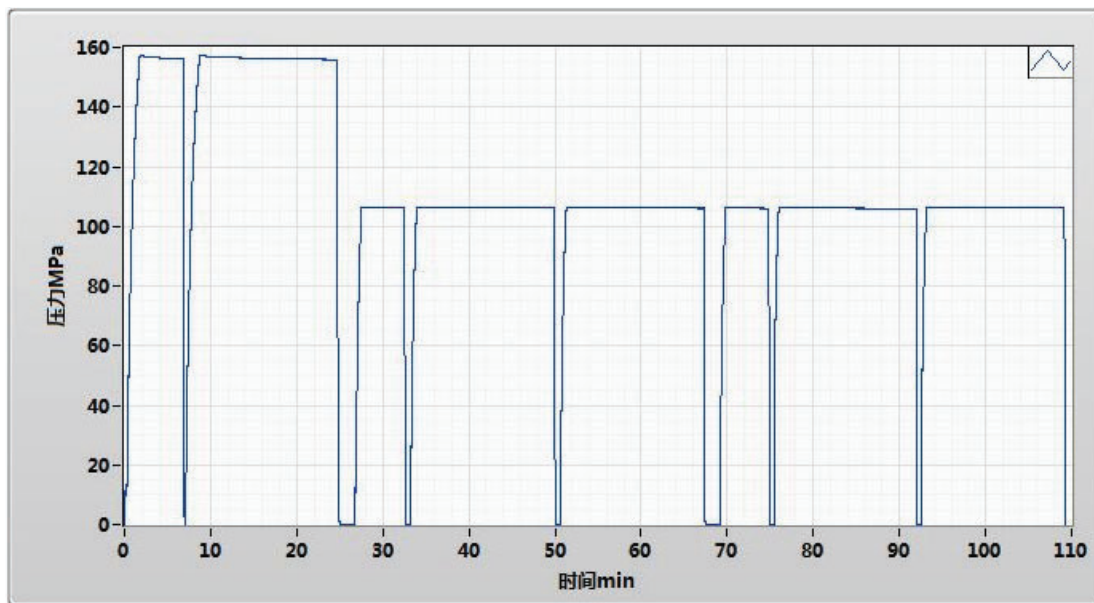
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP033F041	5-1/8" 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	156.04	4.0	0.82
2	156.98	155.93	15.0	1.05
3	106.37	106.22	4.0	0.14
4	106.37	106.05	15.0	0.32
5	106.30	106.04	15.0	0.26
6	106.24	106.00	4.0	0.25
7	106.31	105.93	15.0	0.38
8	106.36	106.12	15.0	0.24



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.11.11



REPORT INDEX

Purchase Order: 1336

Quantity: 1EA

Shipment No.: Crate# AP033F042

Shipment Date: November, 2022

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 - 4-11
4	Ultrasonic Testing	Page - 12-15
5	Magnetic Particle Inspection Report	Page - 16-23
6	Hydrostatic Test	Page - 24-25



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 # 1336, 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 #: 1336

SERIAL NO.: AP033F042

PART NO.: PFFY105/130AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: November, 2022

Customer: _____

P.O. Number: 1336



安澜科技（江苏）股份有限公司

No.: AV00012

Date:November, 2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Customer		PO No. 1336	Product HYDRAULIC GATE VALVE	P/N PFFY105/130AL-00	Serial No. AP033F042	Qty 1	Size 5-1/8"	WP (psi) 15000Psi	Material EE-0.5	PSL PSL3	Temp LU	Specifications API Spec 6A 21st												
P/N	Parts	Description		Melting Practice				Heat Treatment				Temper(2)												
				Material Spec Standards	Q t y	Austenized		Quenched																
		Melt No.	H.T. No.			Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)							
PFFY105/130A L-00	BODY	TX21-01970	RC-09-54	AISI 4130 75K,Per ASTM A29	1	AP033315	Forging	860	5.5H	WATER	28	39	675	8.5H	AIR	/	/	/						
	BONNET	TX21-01970	RS-9-071	AISI 4130 75K,Per ASTM A29	1	AP033328	Forging	860	5.0H	WATER	33	35	700	5.0H	AIR	/	/	/						
	STEM	YX2208-2019	HY220918-2	PH17-4 105K,Per ASTM A564/564M	1	AP033380	Forging	1030	3.5H	WATER	26	29	630	5.0H	AIR	630	5.0H	AIR						
	BALANCE STEM	YX2206-1508	HY220918-2	PH17-4 105K,Per ASTM A564/564M	1	AP033395	Forging	1030	3.5H	WATER	26	29	630	5.0H	AIR	630	5.0H	AIR						
	GATE	2015802331	22091002Q1	AISI 410 75K,Per ASTM A276/276M	1	AP033434	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H	AIR						
	BODY BUSHING	2015802331	22091002Q1	AISI 410 75K,Per ASTM A276/276M	2	AP033502 AP033469	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H	AIR						
Melt No.	H.T. No.	Chemical Analysis (wt. %)										Physical Properties					Equipment Type							
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size		Spec Size	Tensile (MPa)	Yield (MPa)	Elongatio n (%)	ROA (%)	Impact (46°C) Impact direction (Transverse)	Hardness
TX21-01970	RC-09-54	0.32	0.64	0.24	0.013	0.003	0.99	0.21	0.207	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	680	572	40.0	47.0	55/58/45	218HBW	JBW-300B/ WDW-300
TX21-01970	RS-9-071	0.32	0.64	0.24	0.013	0.003	0.99	0.21	0.207	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	691	538	28.0	70.0	75/80/78	229HBW	JBW-300B/ WDW-300
YX2208-2019	HY220918-2	0.026	0.47	0.40	0.027	0.002	15.60	4.15	/	/	/	/	3.64	0.244	/	ø 80x200	QTC	1075	942	20.0	61.6	44/39/40	32HRC	JBW-300B/ WDW-300
YX2206-1508	HY220918-2	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	/	3.63	0.231	/	ø 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/ WDW-300
2015802331	22091002Q1	0.11	0.39	0.36	0.018	0.003	11.66	0.09	0.04	/	/	/	0.05	/	/	200x100x100	QTC	710	555	26.5	68.0	/	217HBW	JBW-300B/ WDW-300
2015802331	22091002Q1	0.11	0.39	0.36	0.018	0.003	11.66	0.09	0.04	/	/	/	0.05	/	/	200x100x100	QTC	710	555	26.5	68.0	/	217HBW	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



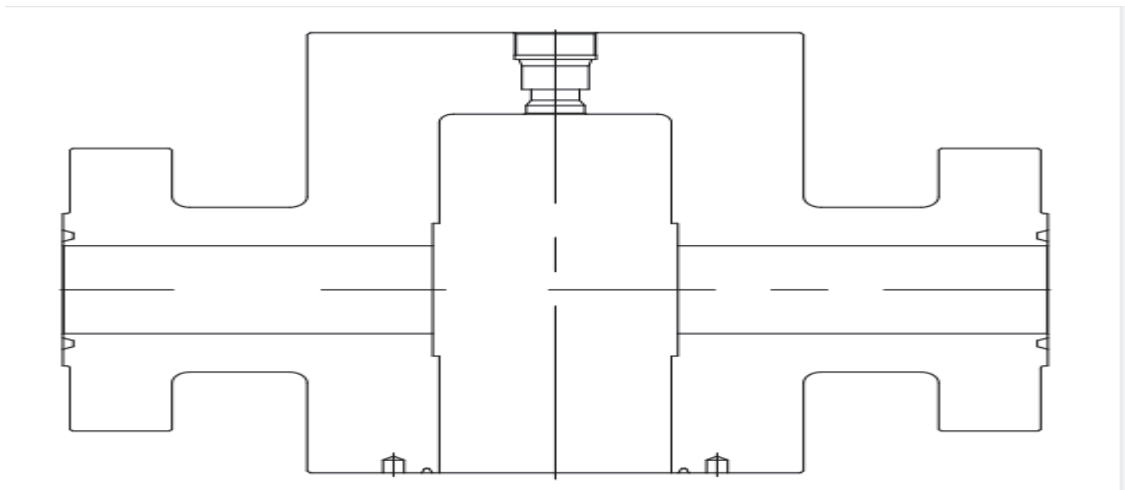
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
							2022
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1108-00 2
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/
Description:	5-1/8"15000psi	Body				Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033315	RC-09-54	211HBW/212HBW 211HBW/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



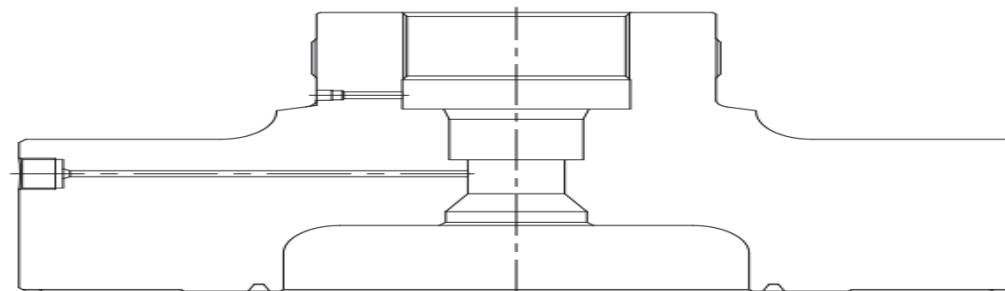
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	2022	
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1010-001		
Part No.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/		
Description:	5-1/8"15000psi Bonnet					Quantity:	1		
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness		
1	AP033328	RS-9-071	211HBW/213HBW						

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		



HARDNESS TEST REPORT

Sketch:





ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



HARDNESS TEST REPORT

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:		Date:			
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074		
Part No.:	X-111077-01	Material:	AISI 410 75K	Coating:	WC		
Description:	5-1/8"15000psi Body bushing				Quantity:	2	
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033502	22091002Q1	1266HV				
2	AP033469	22091002Q1	1274HV				
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					



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT							
Customer:			Customer PO#:			Date:	
Drawing #:		Specification:		API Monogram:		Report #:	
Part No.:		Material:				Coating:	
Description:	5-1/8"15000psi Balance Stem					Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033395	HY220918-2	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#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API Spec 6A 21st /ASTM A388		API Monogram:	6A-2074	Report #:	UTP-1003-005	
Part No.:	X-111398-01	Material:	AISI 4130 75K				Coating:	/	
Description:	5-1/8"15000psi Body						Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result		
1	AP033315	RC-09-54	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 FBH Block		Level as per UT:	II			
Equipment:	MUT-800C	Couplant:	OIL						
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II			



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ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:		Specification:		API Monogram:		Report #:		
Part No.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"15000psi Bonnet					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP033328	RS-9-071	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL					
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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#:	1336		Date:	November, 2022
Drawing #:	PFFY105/130 AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1007-00 3
Part No.:	X-275071-01	Material:	PH17-4 105K			Coating:	/
Description:	5-1/8"15000psi Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP033380	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	2022
Drawing #:	PFFY105/130AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1014-00 4
Part No.:	X-111144-01	Material:	PH17-4 105K			Coating:	/
Description:	5-1/8"15000psi Balance Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP033395	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1108-002	
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"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/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	AP033315	RC-09-54	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:		2022.11	



MAGNETIC PARTICLE INSPECTION REPORT

Inspection Coverage:

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTP-1012-001
Part No.:	X-275071-01	Material:	PH17-4-105K			Coating:	/
Description:	5-1/8"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	AP033380	HY220918-2	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:	2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	H220925-06	
Part No.:	X-275174-01	Material:	AISI 410 75K			Coating:	/	
Description:	5-1/8"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	AP033434	22091002Q1	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:	2022.09			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	H220925-06H	
Part No.:	X-275174-01	Material:	AISI 410 75K			Coating:	WC	
Description:	5-1/8"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	AP033434	22091002Q1	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:	2022.09			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	H220925-04	
Part No.:	X-111077-01	Material:	AISI 410 75K			Coating:	/	
Description:	5-1/8"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/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	AP033502	22091002Q1	Acceptable					
2	AP033469	22091002Q1	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:		2022.09		





LIQUID PENETRATE EXAMINATION

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安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP033F042		
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/		
Description:	5-1/8"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	AP033315	RC-09-54	OK	OK					

Drift Test:

Diameter ϕ 102.46 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

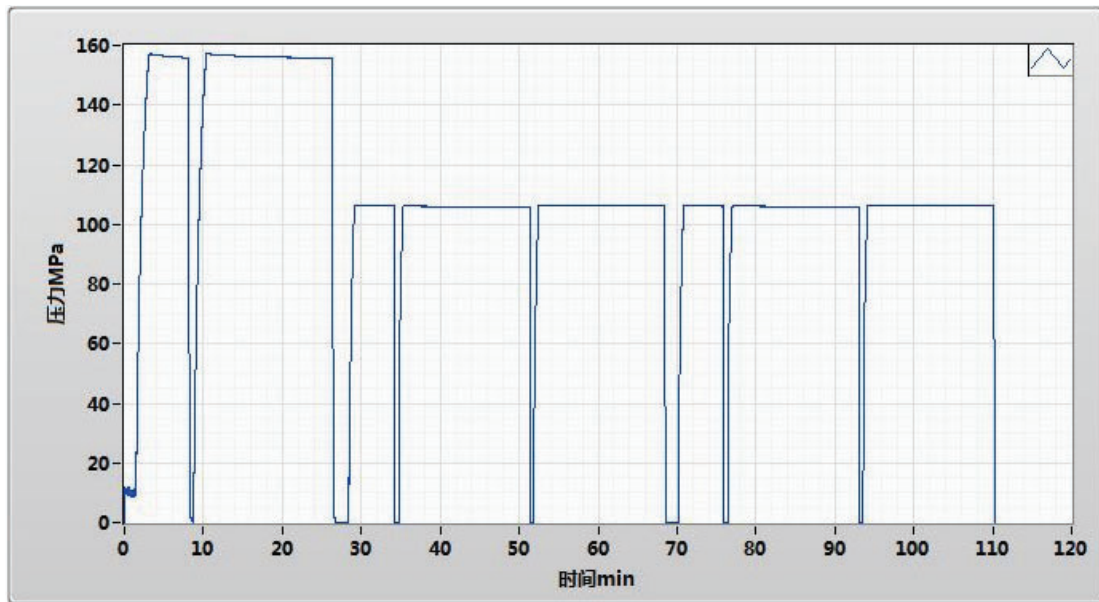
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP033F042	5-1/8" 15000Psi	API 6A 21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.74	155.82	4.0	0.92
2	156.93	155.72	15.0	1.20
3	106.30	106.18	4.0	0.12
4	106.09	105.86	15.0	0.22
5	106.47	106.25	15.0	0.22
6	106.28	106.05	4.0	0.23
7	106.22	105.83	15.0	0.39
8	106.38	106.10	15.0	0.28



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.11.12



REPORT INDEX

Purchase Order: 1336

Quantity: 1EA

Shipment No.: Crate# AP033F043

Shipment Date: November, 2022

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 - 4-11
4	Ultrasonic Testing	Page - 12-15
5	Magnetic Particle Inspection Report	Page - 16-23
6	Hydrostatic Test	Page - 24-25



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 # 1336, 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 #: 1336

SERIAL NO.: AP033F043

PART NO.: PFFY105/130AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: November, 2022

Customer: _____

P.O. Number: 1336



安澜科技（江苏）股份有限公司

No.: AV00012

Date:November, 2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Customer		PO No. 1336	Product HYDRAULIC GATE VALVE	P/N PFFY105/130AL-00	Serial No. AP033F043	Qty 1	Size 5-1/8"	WP (psi) 15000Psi	Material EE-0.5	PSL PSL3	Temp LU	Specifications API Spec 6A 21st												
Description			Heat Treatment																					
			Melting Practice				Austenized		Quenched		Temper(1)		Temper(2)											
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Q t y	Serial No.	Finished	Temp (°C)	Time (min)	Temp (°C)	Time (min)	Temp (°C)	Time (min)	Temp (°C)	Time (min)	Temp (°C)								
PFFY105/130A L-00	BODY	TX21-01970	RC-1010-020	ASl 4130 75K,Per ASTM A29	1	AP033306	Forging	870	4.0H	WATER	20	24	670	5.5H	AIR	/	/							
	BONNET	TX21-01970	RS-9-071	ASl 4130 75K,Per ASTM A29	1	AP033324	Forging	860	5.0H	WATER	33	35	700	5.0H	AIR	/	/							
	STEM	YX2208-2019	HY220918-2	PH17-4 105K,Per ASTM A564/564M	1	AP033389	Forging	1030	3.5H	WATER	26	29	630	5.0H	AIR	630	5.0H							
	BALANCE STEM	YX2206-1508	HY220918-2	PH17-4 105K,Per ASTM A564/564M	1	AP033405	Forging	1030	3.5H	WATER	26	29	630	5.0H	AIR	630	5.0H							
	GATE	2015802331	22091002Q1	ASl 410 75K,Per ASTM A276/276M	1	AP033437	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H							
	BODY BUSHING	2015802331	22091002Q1	ASl 410 75K,Per ASTM A276/276M	2	AP033497	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H							
Physical Properties																								
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 Origi n	Tensile (MPa)	Yield (MPa)	Elongatio n (%)	ROA (%)	Impact (46°C) Impact direction (Transverse)	Hardness	Equipment Type
TX21-01970	RC-1010-020	0.32	0.64	0.24	0.013	0.003	0.99	0.21	0.207	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	705	530	31.0	62.0	32/41/59	230HBW	JBW-300B/ WDW-300
TX21-01970	RS-9-071	0.32	0.64	0.24	0.013	0.003	0.99	0.21	0.207	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	691	538	28.0	70.0	75/80/78	229HBW	JBW-300B/ WDW-300
YX2208-2019	HY220918-2	0.026	0.47	0.40	0.027	0.002	15.60	4.15	/	/	/	/	3.64	0.244	/	ø 80x200	QTC	1075	942	20.0	61.6	44/39/40	32HRC	JBW-300B/ WDW-300
YX2206-1508	HY220918-2	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	/	3.63	0.231	/	ø 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/ WDW-300
2015802331	22091002Q1	0.11	0.39	0.36	0.018	0.003	11.66	0.09	0.04	/	/	/	0.05	/	/	200x100x100	QTC	710	555	26.5	68.0	/	217HBW	JBW-300B/ WDW-300
2015802331	22091002Q1	0.11	0.39	0.36	0.018	0.003	11.66	0.09	0.04	/	/	/	0.05	/	/	200x100x100	QTC	710	555	26.5	68.0	/	217HBW	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



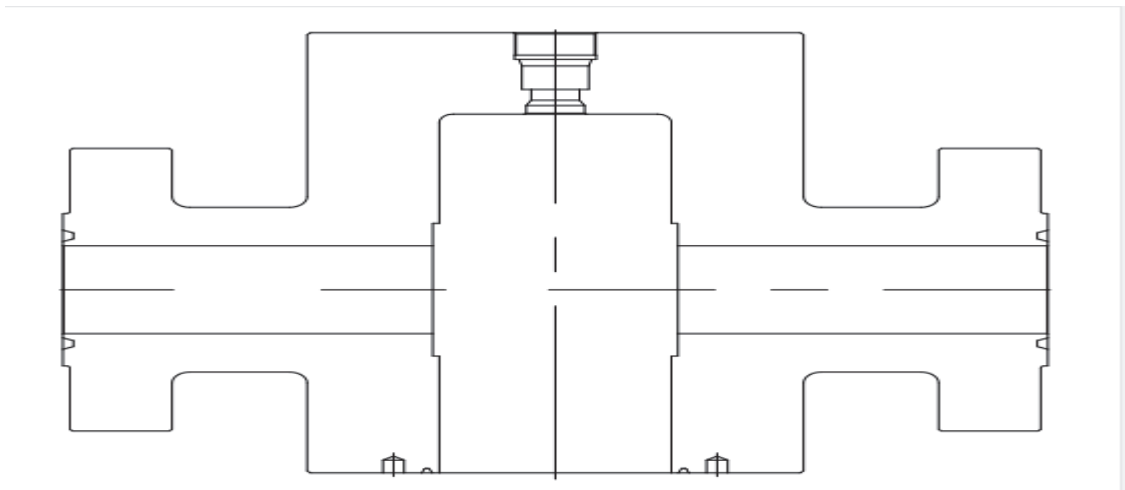
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
							2022
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1108-00 2
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/
Description:	5-1/8"15000psi Body					Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033306	RC-1010-020	217HBW/215HBW 212HBW/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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

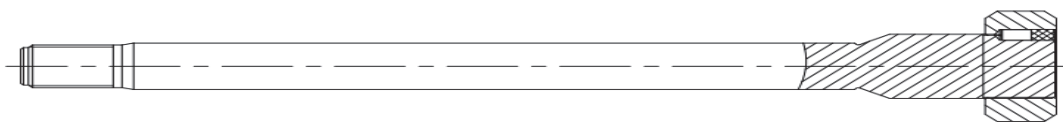
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Sketch:



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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



HARDNESS TEST REPORT

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:		Date:			
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20220925-08
Part No.:	X-111077-01	Material:	AISI 410 75K	Coating:	WC		
Description:	5-1/8"15000psi Body bushing				Quantity:	2	
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033452	22091002Q1	1266HV				
2	AP033497	22091002Q1	1269HV				
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					



HARDNESS TEST REPORT

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安澜科技（江苏）股份有限公司
ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1018-004		
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/		
Description:	5-1/8"15000psi Body					Quantity:	1		
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result		
1	AP033306	RC-1010-020	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 FBH Block		Level as per UT:	II			
Equipment:	MUT-800C	Couplant:	OIL						
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+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.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"15000psi Bonnet					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP033324	RS-9-071	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL					
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1007-00 3	
Part No.:	X-275071-01	Material:	PH17-4 105K			Coating:	/	
Description:	5-1/8"15000psi Stem					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP033389	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C		Couplant:	OIL				
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	2022
Drawing #:	PFFY105/130AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1014-00 4
Part No.:	X-111144-01	Material:	PH17-4 105K			Coating:	/
Description:	5-1/8"15000psi Balance Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP033405	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1107-003	
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"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/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	AP033306	RC-1010-020	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:		2022.11		



MAGNETIC PARTICLE INSPECTION REPORT

Inspection Coverage:

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTP-1012-001
Part No.:	X-275071-01	Material:	PH17-4-105K			Coating:	/
Description:	5-1/8"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	AP033389	HY220918-2	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:	2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:		1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	H220925-06	
Part No.:	X-275174-01	Material:	AISI 410 75K				Coating:	/	
Description:	5-1/8"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	AP033437	22091002Q1	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:		2022.09			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	H220925-06H	
Part No.:	X-275174-01	Material:	AISI 410 75K			Coating:	WC	
Description:	5-1/8"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	AP033437	22091002Q1	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:	2022.09			



MAGNETIC PARTICLE INSPECTION REPORT

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	H220925-04H	
Part No.:	X-111077-01	Material:	AISI 410 75K			Coating:	WC	
Description:	5-1/8"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	AP033452	22091002Q1	Acceptable					
2	AP033497	22091002Q1	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:		2022.09		

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ASTM E165	API Monogram:	6A-2074	Report #:	PTP-1023-001	
Part No.:	X-111144-01	Material:	PH17-4-105K			Coating:	/	
Description:	5-1/8"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	AP033405	HY220918-2	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:		2022.10		



安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP033F043		
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/		
Description:	5-1/8"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	AP033306	RC-1010-020	OK	OK					

Drift Test:

Diameter ϕ 102.46 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

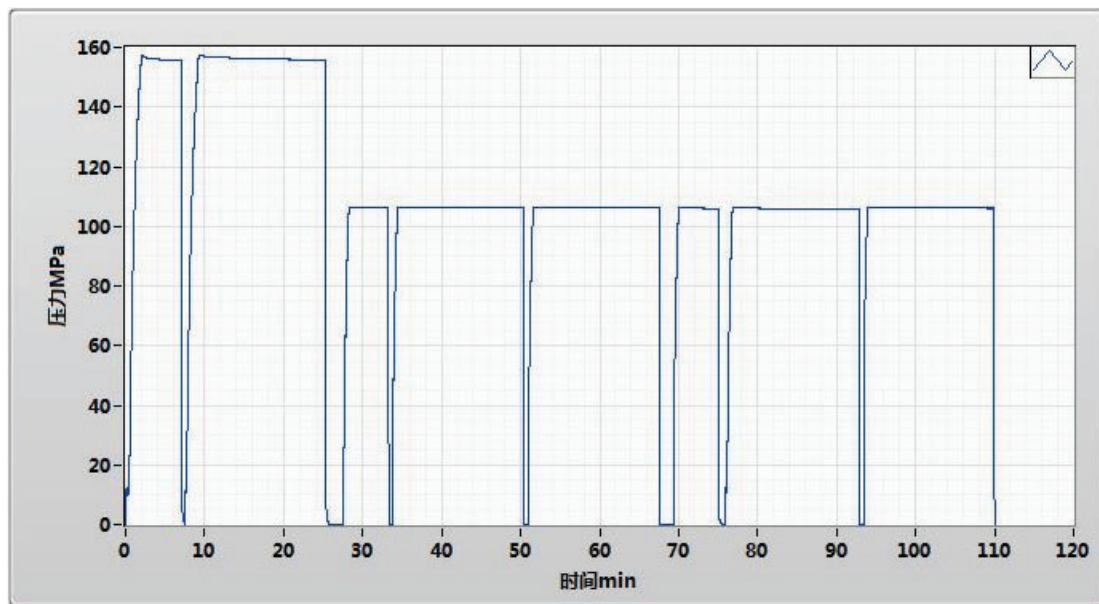
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP033F043	5-1/8" 15000Psi	API 6A 21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.33	155.45	4.0	0.88
2	156.96	155.79	15.0	1.17
3	106.27	106.14	4.0	0.13
4	106.32	106.09	15.0	0.23
5	106.30	106.11	15.0	0.18
6	106.22	105.94	4.0	0.27
7	106.22	105.65	15.0	0.56
8	106.29	106.03	15.0	0.26



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.11.12



REPORT INDEX

Purchase Order: 1336

Quantity: 1EA

Shipment No.: Crate# AP033F044

Shipment Date: November, 2022

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 - 4-11
4	Ultrasonic Testing	Page - 12-15
5	Magnetic Particle Inspection Report	Page - 16-23
6	Hydrostatic Test	Page - 24-25



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 # 1336, 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 #: 1336

SERIAL NO.: AP033F044

PART NO.: PFFY105/130AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: November, 2022

Customer: _____

P.O. Number: 1336



安澜科技（江苏）股份有限公司

No.: AV00012

Date:November, 2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Customer		PO No.	Description		Product			P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications							
		1336			HYDRAULIC GATE VALVE			PFY105/130AL-00	AP033F044	1	5-1/8"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st							
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards			Melting Practice		Quenched			Austenized			Heat Treatment			Temper(1)		Temper(2)			
							Q	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Time (min)	Time (min)		
PFY105/130A L-00	BODY	TX21-01970	RS-10-022	ASIS 4130 75K,Per ASTM A29	1	AP033471	Forging	870	5.0H	WATER	30	33	680	5.0H	AIR	/	/	/	/	/			
	BONNET	TX21-01970	RS-9-071	ASIS 4130 75K,Per ASTM A29	1	AP033320	Forging	860	5.0H	WATER	33	35	700	5.0H	AIR	/	/	/	/	/			
	STEM	YX2208-2019	HY220918-2	PH17-4 105K,Per ASTM A564/564M	1	AP033382	Forging	1030	3.5H	WATER	26	29	630	5.0H	AIR	630	5.0H	AIR	AIR	AIR			
	BALANCE STEM	YX2206-1508	HY220918-2	PH17-4 105K,Per ASTM A564/564M	1	AP033404	Forging	1030	3.5H	WATER	26	29	630	5.0H	AIR	630	5.0H	AIR	AIR	AIR			
	GATE	2015802331	22091002Q1	ASIS 410 75K,Per ASTM A276/276M	1	AP033492	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H	AIR	AIR	AIR			
BODY BUSHING		2015802331	22091002Q1	ASIS 410 75K,Per ASTM A276/276M	2	AP033504	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H	AIR	AIR	AIR			
Chemical Analysis (wt. %)																							
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongatio n (%)	ROA (%)	Impact (46°C) Impact direction (Transverse)	Hardness	Equipment Type
TX21-01970	RS-10-022	0.32	0.64	0.24	0.013	0.003	0.99	0.21	0.207	0.006	/	/	0.02	/	/	QTC	705	596	28.0	71.0	85/82/78	229HBW	JBW-300B/WDW-300
TX21-01970	RS-9-071	0.32	0.64	0.24	0.013	0.003	0.99	0.21	0.207	0.006	/	/	0.02	/	/	QTC	691	538	28.0	70.0	75/80/78	229HBW	JBW-300B/WDW-300
YX2208-2019	HY220918-2	0.026	0.47	0.40	0.027	0.002	15.60	4.15	/	/	/	/	3.64	0.244	/	QTC	1075	942	20.0	61.6	44/39/40	32HRC	JBW-300B/WDW-300
YX2206-1508	HY220918-2	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	/	3.63	0.231	/	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/WDW-300
2015802331	22091002Q1	0.11	0.39	0.36	0.018	0.003	11.66	0.09	0.04	/	/	/	0.05	/	/	QTC	710	555	26.5	68.0	/	217HBW	JBW-300B/WDW-300
2015802331	22091002Q1	0.11	0.39	0.36	0.018	0.003	11.66	0.09	0.04	/	/	/	0.05	/	/	QTC	710	555	26.5	68.0	/	217HBW	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



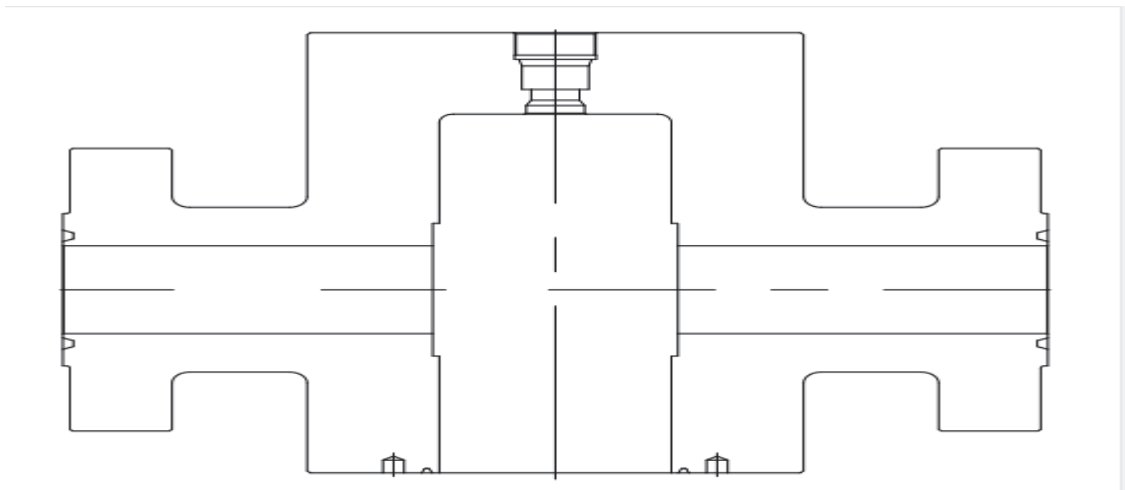
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
							2022
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1108-00 2
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/
Description:	5-1/8"15000psi Body					Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033471	RS-10-022	208HBW/211HBW 210HBW/214HBW				

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



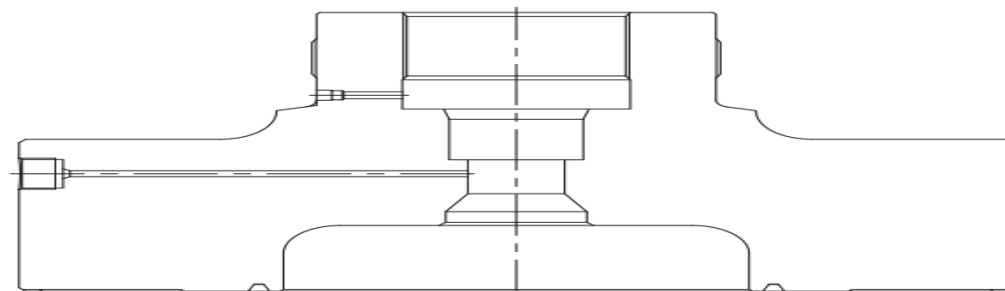
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	2022
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1010-001	
Part No.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"15000psi Bonnet					Quantity:	1	
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness	
1	AP033320	RS-9-071	219HBW/221HBW					

Sketch:

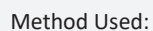


Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



HARDNESS TEST REPORT

Sketch:

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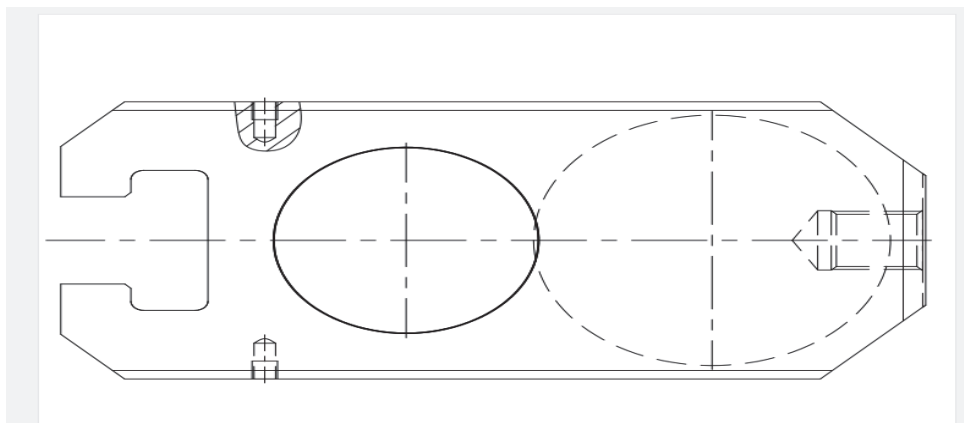
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	2022
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20220925-01
Part No.:	X-111093-01	Material:	AISI 410 75K			Coating:	/
Description:	5-1/8"15000psi Gate					Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033492	22091002Q1	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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

This technical drawing shows the hull plan of a ship, oriented horizontally. The drawing includes the following elements:

- Keel:** A dashed line running horizontally through the center of the hull.
- Gunwale:** The upper edge of the hull, shown as a solid line.
- Deck:** The flat surface of the hull, shown as a solid line.
- Bow:** The front of the ship, located on the right side of the drawing.
- Stern:** The back of the ship, located on the left side of the drawing.
- Transverse Sections:** Two vertical dashed lines intersecting the keel, representing cross-sections of the hull.
- Structural Details:** Various small details are shown, including a small structure at the bow, a small structure at the stern, and a small structure on the deck.

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		



HARDNESS TEST REPORT

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:		Date:			
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074		
Part No.:	X-111077-01	Material:	AISI 410 75K	Coating:	WC		
Description:	5-1/8"15000psi Body bushing			Quantity:	2		
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033450	22091002Q1	1258HV				
2	AP033504	22091002Q1	1287HV				
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					



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

A technical drawing of a bolt and nut assembly in perspective view. The bolt is a long, cylindrical fastener with a hexagonal head on the left and a hexagonal nut on the right. A dashed line runs through the center of the bolt, indicating its longitudinal axis. The drawing is a black and white line drawing with no shading or texture.

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



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API Spec 6A 21st /ASTM A388		API Monogram:	6A-2074	Report #:	UTP-1018-004	
Part No.:	X-111398-01	Material:	AISI 4130 75K				Coating:	/	
Description:	5-1/8"15000psi Body						Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result		
1	AP033471	RS-10-022	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C		Couplant:	OIL					
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:		Specification:		API Monogram:		Report #:		
Part No.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"15000psi Bonnet					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP033320	RS-9-071	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL					
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1007-00 3	
Part No.:	X-275071-01	Material:	PH17-4 105K			Coating:	/	
Description:	5-1/8"15000psi Stem					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP033382	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C		Couplant:	OIL				
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	2022
Drawing #:	PFFY105/130AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1014-00 4
Part No.:	X-111144-01	Material:	PH17-4 105K			Coating:	/
Description:	5-1/8"15000psi Balance Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP033404	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1107-003	
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"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/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	AP033471	RS-10-022	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:		2022.11		

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1010-002	
Part No.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"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/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	AP033320	RS-9-071	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:		2022.10		



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[illegible]

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:	2022.10



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	H220925-06	
Part No.:	X-111093-01	Material:	AISI 410 75K			Coating:	/	
Description:	5-1/8"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	AP033492	22091002Q1	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:	2022.09			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	H220925-06H	
Part No.:	X-111093-01	Material:	AISI 410 75K			Coating:	WC	
Description:	5-1/8"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	AP033492	22091002Q1	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:		2022.09		



MAGNETIC PARTICLE INSPECTION REPORT

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165		API Monogram:	6A-2074	Report #:	H220925-04H	
Part No.:	X-111077-01	Material:	AISI 410 75K				Coating:	WC	
Description:	5-1/8"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	AP033450	22091002Q1	Acceptable						
2	AP033504	22091002Q1	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:		2022.09		



LIQUID PENETRATE EXAMINATION

24



安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP033F044		
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/		
Description:	5-1/8"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	AP033471	RS-10-022	OK	OK					

Drift Test:

Diameter ϕ 102.46 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		



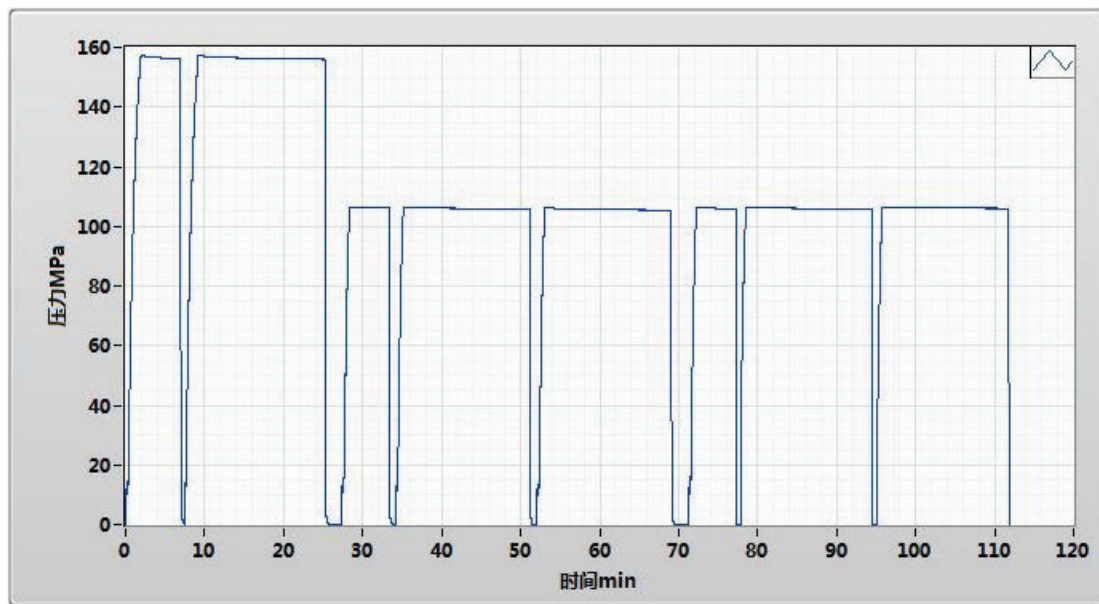
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP033F044	5-1/8" 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	156.14	4.0	0.72
2	156.98	155.97	15.0	1.01
3	106.32	106.17	4.0	0.16
4	106.29	105.85	15.0	0.43
5	106.06	105.42	15.0	0.64
6	106.17	105.88	4.0	0.28
7	106.25	105.84	15.0	0.42
8	106.28	106.01	15.0	0.27



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.11.12



REPORT INDEX

Purchase Order: 1336

Quantity: 1EA

Shipment No.: Crate# AP033F045

Shipment Date: November, 2022

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 - 4-11
4	Ultrasonic Testing	Page - 12-15
5	Magnetic Particle Inspection Report	Page - 16-23
6	Hydrostatic Test	Page - 24-25



CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1336, 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 #: 1336

SERIAL NO.: AP033F045

PART NO.: PFFY105/130AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: November, 2022

Customer: _____

P.O. Number: 1336



安澜科技（江苏）股份有限公司

No.: AV00012

Date:November, 2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Customer		PO No.	Description		Product			P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications							
		1336			HYDRAULIC GATE VALVE			PFFY105/130AL-00	AP033F045	1	5-1/8"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st							
P/N	Parts	Melt No.	H.T. No.	Melting Practice			Austenized			Quenched			Heat Treatment			Temper(2)							
				Material Spec Standards	Q	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)						
PFFY105/130A L-00	BODY	TX21-01970	RC-10-28	AISI 4130 75K,Per ASTM A29	1	AP033313	Forging	860	5.5H	WATER	28	39	680	6.6H	AIR	/	/						
	BONNET	TX21-01970	RS-9-071	AISI 4130 75K,Per ASTM A29	1	AP033321	Forging	860	5.0H	WATER	33	35	700	5.0H	AIR	/	/						
	STEM	YX2208-2019	HY220918-2	PH17-4 105K,Per ASTM A564/564M	1	AP033383	Forging	1030	3.5H	WATER	26	29	630	5.0H	AIR	630	5.0H						
	BALANCE STEM	YX2206-1508	HY220918-2	PH17-4 105K,Per ASTM A564/564M	1	AP033487	Forging	1030	3.5H	WATER	26	29	630	5.0H	AIR	630	5.0H						
	GATE	2015802331	22091002Q1	AISI 410 75K,Per ASTM A276/276M	1	AP033430	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H						
BODY BUSHING		2015802331	22091002Q1	AISI 410 75K,Per ASTM A276/276M	2	AP033503 AP033458	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H						
Chemical Analysis (wt. %)																							
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongation (%)	ROA (%)	Impact (-46°C) Impact direction (Transverse)	Hardness	Equipment Type
TX21-01970	RC-10-28	0.32	0.64	0.24	0.013	0.003	0.99	0.21	0.207	0.006	/	/	0.02	/	/	QTC	674	550	45.0	50.0	62/57/45	218HBW	JBW-300B/WDW-300
TX21-01970	RS-9-071	0.32	0.64	0.24	0.013	0.003	0.99	0.21	0.207	0.006	/	/	0.02	/	/	QTC	691	538	28.0	70.0	75/80/78	229HBW	JBW-300B/WDW-300
YX2208-2019	HY220918-2	0.026	0.47	0.40	0.027	0.002	15.60	4.15	/	/	/	/	3.64	0.244	/	QTC	1075	942	20.0	61.6	44/39/40	32HRC	JBW-300B/WDW-300
YX2206-1508	HY220918-2	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	/	3.63	0.231	/	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/WDW-300
2015802331	22091002Q1	0.11	0.39	0.36	0.018	0.003	11.66	0.09	0.04	/	/	/	0.05	/	/	QTC	710	555	26.5	68.0	/	217HBW	JBW-300B/WDW-300
2015802331	22091002Q1	0.11	0.39	0.36	0.018	0.003	11.66	0.09	0.04	/	/	/	0.05	/	/	QTC	710	555	26.5	68.0	/	217HBW	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



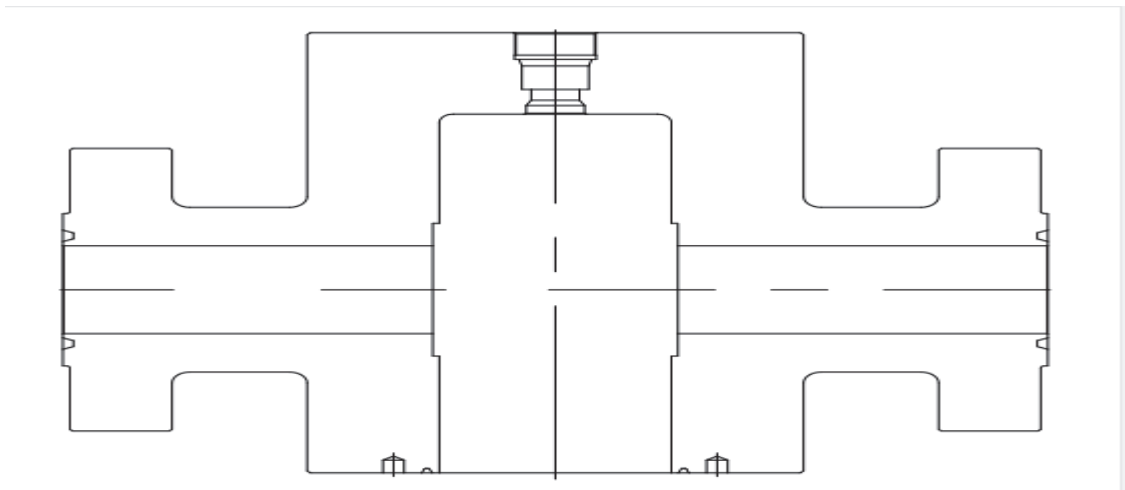
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
							2022
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1108-00 2
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/
Description:	5-1/8"15000psi	Body				Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033313	RC-10-28	210HBW/216HBW 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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

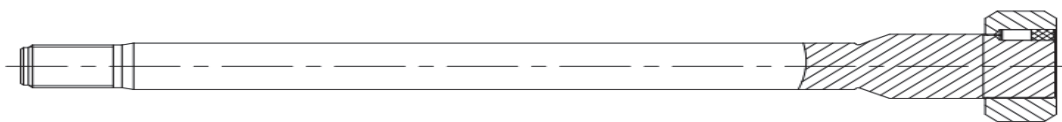
[illegible]



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[illegible]

Sketch:



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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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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[illegible]

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:		Date:			
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074		
Part No.:	X-111077-01	Material:	AISI 410 75K	Coating:	/		
Description:	5-1/8"15000psi Body bushing				Quantity:	2	
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033503	22091002Q1	227HBW				
2	AP033458	22091002Q1	226HBW				
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						



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:		Date:			
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074		
Part No.:	X-111077-01	Material:	AISI 410 75K	Coating:	WC		
Description:	5-1/8"15000psi Body bushing			Quantity:	2		
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033503	22091002Q1	1292HV				
2	AP033458	22091002Q1	1267HV				
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					



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:			
Drawing #:		Specification:		API Monogram:			
Part No.:		Material:		Coating:			
Description:	5-1/8"15000psi Balance Stem				Quantity:	1	
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033487	HY220918-2	31HRC				
Sketch:							
Method Used:							
Acceptable Hardness:		27HRC-33HRC		Approved By:		Examined By:	
Judgments:		[V] Conforms		Xin zheng		Zhengguo Yao	
		[] Does Not Conform					



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074		Report #:	UTP-1018-004	
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/		
Description:	5-1/8"15000psi Body					Quantity:	1		
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result		
1	AP033313	RC-10-28	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C		Couplant:	OIL					
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:		Specification:		API Monogram:		Report #:		
Part No.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"15000psi Bonnet					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP033321	RS-9-071	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL					
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1336		Date:	November, 2022
Drawing #:	PFFY105/130 AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1007-00 3
Part No.:	X-275071-01	Material:	PH17-4 105K			Coating:	/
Description:	5-1/8"15000psi Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP033383	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	2022
Drawing #:	PFFY105/130AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1014-00 4
Part No.:	X-111144-01	Material:	PH17-4 105K			Coating:	/
Description:	5-1/8"15000psi Balance Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP033487	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1107-003	
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"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/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	AP033313	RC-10-28	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:		2022.11	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1010-002	
Part No.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"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/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	AP033321	RS-9-071	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:		2022.10		



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[illegible]

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:	2022.10



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	H220925-06	
Part No.:	X-275174-01	Material:	AISI 410 75K			Coating:	/	
Description:	5-1/8"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:		$\geqslant 1000\text{Uw/cm}^2$	
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	AP033430	22091002Q1	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:	2022.09			





ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	H220925-04	
Part No.:	X-111077-01	Material:	AISI 410 75K				Coating:	/	
Description:	5-1/8"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/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	AP033503	22091002Q1	Acceptable						
2	AP033458	22091002Q1	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:		2022.09		





LIQUID PENETRATE EXAMINATION

24



安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP033F045		
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/		
Description:	5-1/8"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	AP033313	RC-10-28	OK	OK					

Drift Test:

Diameter ϕ 102.46 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		



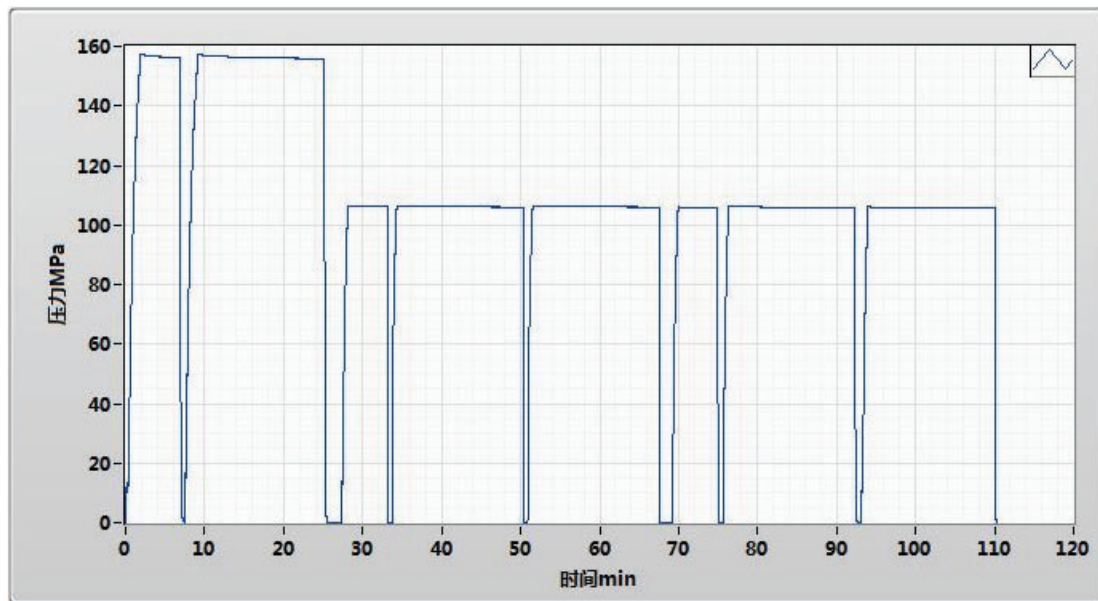
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP033F045	5-1/8" 15000Psi	API 6A 21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.89	156.13	4.0	0.76
2	156.93	155.85	15.0	1.07
3	106.33	106.17	4.0	0.16
4	106.31	106.00	15.0	0.31
5	106.24	106.00	15.0	0.24
6	105.90	105.64	4.0	0.25
7	106.21	105.75	15.0	0.46
8	105.97	105.56	15.0	0.41



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.11.12



REPORT INDEX

Purchase Order: 1336

Quantity: 1EA

Shipment No.: Crate# AP033F046

Shipment Date: November, 2022

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 - 4-11
4	Ultrasonic Testing	Page - 12-15
5	Magnetic Particle Inspection Report	Page - 16-23
6	Hydrostatic Test	Page - 24-25



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 # 1336, 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 #: 1336

SERIAL NO.: AP033F046

PART NO.: PFFY105/130AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: November, 2022

Customer: _____

P.O. Number: 1336



安澜科技（江苏）股份有限公司

No.: AV00012

Date:November, 2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications											
		1336	HYDRAULIC GATE VALVE		PFY105/130AL-00	AP033F046	1	5-1/8"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st											
P/N	Parts	Description		Melting Practice			Austenized		Quenched		Temper(1)		Temper(2)											
		Melt No.	H.T. No.	Material Spec Standards	Q t y	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium									
PFY105/130A L-00	BODY	TX21-01970	RC-10-01	AISI 4130 75K,Per ASTM A29	1	AP033311	Forging	870	4.0H	WATER	28	39	700	6.0H	AIR	/	/							
	BONNET	TX21-01970	RS-9-072	AISI 4130 75K,Per ASTM A29	1	AP033479	Forging	860	5.0H	WATER	33	35	700	5.0H	AIR	/	/							
	STEM	YX2208-2019	HY220918-2	PH17-4 105K,Per ASTM A564/564M	1	AP033393	Forging	1030	3.5H	WATER	26	29	630	5.0H	AIR	630	5.0H							
	BALANCE STEM	YX2206-1508	HY220918-2	PH17-4 105K,Per ASTM A564/564M	1	AP033403	Forging	1030	3.5H	WATER	26	29	630	5.0H	AIR	630	5.0H							
	GATE	2015802331	22091002Q1	AISI 410 75K,Per ASTM A276/276M	1	AP033493	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H							
	BODY BUSHING	2015802331	22091002Q1	AISI 410 75K,Per ASTM A276/276M	2	AP033457	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H							
Physical Properties																								
Melt No.	H.T. No.	Chemical Analysis (wt. %)										Impact (-46°C)				Equipment Type								
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe		Spec Size	Spec Orig	Tensile (MPa)	Yield (MPa)	Elongatio n (%)	ROA (%)	Impact direction (Transverse)	Hardness
TX21-01970	RC-10-01	0.32	0.64	0.24	0.013	0.003	0.99	0.21	0.207	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	670	569	43.0	47.0	55/58/46	220HBW	JBW-300B/WDW-300
TX21-01970	RS-9-072	0.32	0.64	0.24	0.013	0.003	0.99	0.21	0.207	0.006	/	/	0.02	/	/	8"x8"x10"	QTC	691	538	28.0	70.0	75/80/78	229HBW	JBW-300B/WDW-300
YX2208-2019	HY220918-2	0.026	0.47	0.40	0.027	0.002	15.60	4.15	/	/	/	/	3.64	0.244	/	ø 80x200	QTC	1075	942	20.0	61.6	44/39/40	32HRC	JBW-300B/WDW-300
YX2206-1508	HY220918-2	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	/	3.63	0.231	/	ø 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/WDW-300
2015802331	22091002Q1	0.11	0.39	0.36	0.018	0.003	11.66	0.09	0.04	/	/	/	0.05	/	/	200x100x100	QTC	710	555	26.5	68.0	/	217HBW	JBW-300B/WDW-300
2015802331	22091002Q1	0.11	0.39	0.36	0.018	0.003	11.66	0.09	0.04	/	/	/	0.05	/	/	200x100x100	QTC	710	555	26.5	68.0	/	217HBW	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



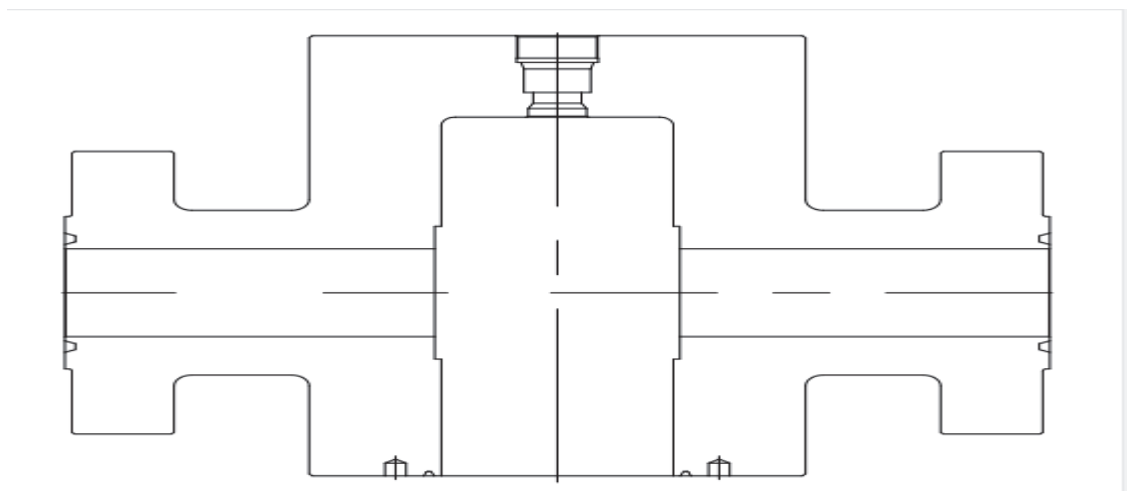
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
							2022
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1108-00 2
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/
Description:	5-1/8"15000psi	Body				Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033311	RC-10-01	213HBW/219HBW 218HBW/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



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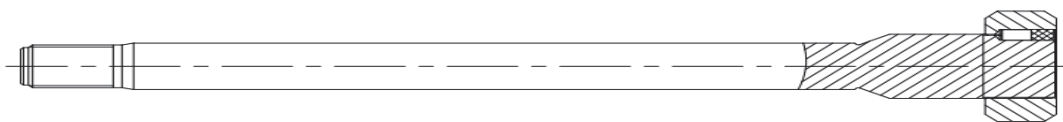
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Sketch:



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



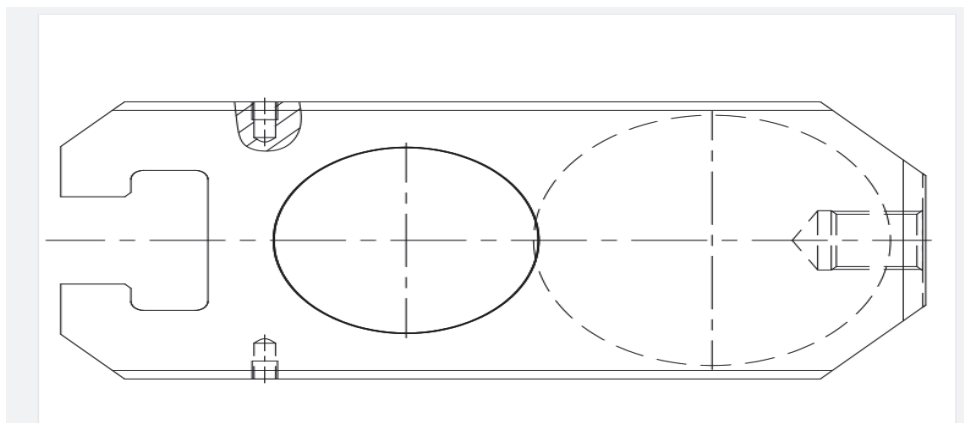
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	2022
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20220925-01
Part No.:	X-111093-01	Material:	AISI 410 75K			Coating:	/
Description:	5-1/8"15000psi Gate					Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033493	22091002Q1	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



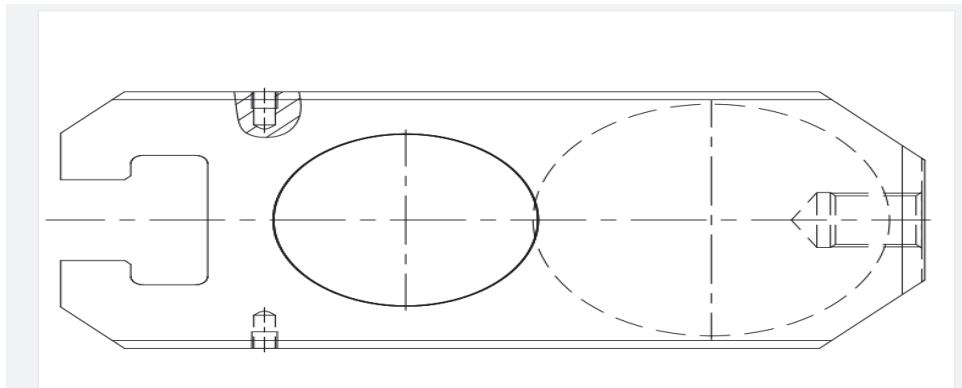
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
							2022
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20220925-07
Part No.:	X-111093-01	Material:	AISI 410 75K			Coating:	WC
Description:	5-1/8"15000psi Gate					Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033493	22091002Q1	1294HV				

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:		Date:			
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074		
Part No.:	X-111077-01	Material:	AISI 410 75K	Coating:	/		
Description:	5-1/8"15000psi Body bushing				Quantity:	2	
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033455	22091002Q1	219HBW				
2	AP033467	22091002Q1	211HBW				
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						



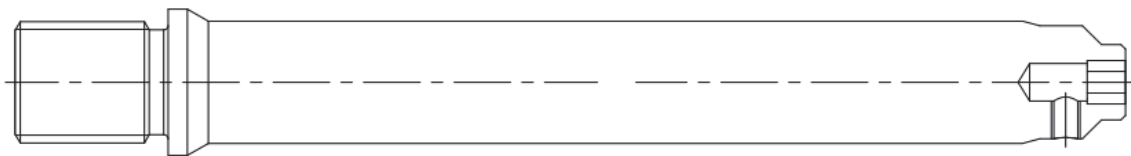
HARDNESS TEST REPORT

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HARDNESS TEST REPORT

Sketch:





安澜科技（江苏）股份有限公司
ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API Spec 6A 21st /ASTM A388		API Monogram:	6A-2074	Report #:	UTP-1003-005	
Part No.:	X-111398-01	Material:	AISI 4130 75K				Coating:	/	
Description:	5-1/8"15000psi Body						Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result		
1	AP033311	RC-10-01	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 FBH Block		Level as per UT:	II			
Equipment:	MUT-800C	Couplant:	OIL						
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II			



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:		Specification:		API Monogram:		Report #:		
Part No.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"15000psi Bonnet					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP033479	RS-9-072	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL					
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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#:	1336		Date:	November, 2022
Drawing #:	PFFY105/130 AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1007-00 3
Part No.:	X-275071-01	Material:	PH17-4 105K			Coating:	/
Description:	5-1/8"15000psi Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP033393	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	2022
Drawing #:	PFFY105/130AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1014-00 4
Part No.:	X-111144-01	Material:	PH17-4 105K			Coating:	/
Description:	5-1/8"15000psi Balance Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP033403	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	MTP-1108-002	
Part No.:	X-111398-01	Material:	AISI 4130 75K				Coating:	/	
Description:	5-1/8"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/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	AP033311	RC-10-01	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:		2022.11		

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1010-002	
Part No.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"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/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	AP033479	RS-9-072	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:		2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTP-1012-001
Part No.:	X-275071-01	Material:	PH17-4-105K			Coating:	/
Description:	5-1/8"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	AP033393	HY220918-2	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:	2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	H220925-06	
Part No.:	X-111093-01	Material:	AISI 410 75K			Coating:	/	
Description:	5-1/8"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:		$\geq 1000\text{Uw/cm}^2$	
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	AP033493	22091002Q1	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:	2022.09			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	H220925-06H	
Part No.:	X-111093-01	Material:	AISI 410 75K			Coating:	WC	
Description:	5-1/8"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	AP033493	22091002Q1	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:	2022.09			



安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	H220925-04	
Part No.:	X-111077-01	Material:	AISI 410 75K				Coating:	/	
Description:	5-1/8"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:		$\geq 1000\text{Uw/cm}^2$		
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	AP033455	22091002Q1	Acceptable						
2	AP033467	22091002Q1	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:		2022.09		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165		API Monogram:	6A-2074	Report #:	H220925-04H	
Part No.:	X-111077-01	Material:	AISI 410 75K				Coating:	WC	
Description:	5-1/8"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	AP033455	22091002Q1	Acceptable						
2	AP033467	22091002Q1	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:		2022.09		



LIQUID PENETRATE EXAMINATION

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安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP033F046		
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/		
Description:	5-1/8"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	AP033311	RC-10-01	OK	OK					

Drift Test:

Diameter ϕ 102.46 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

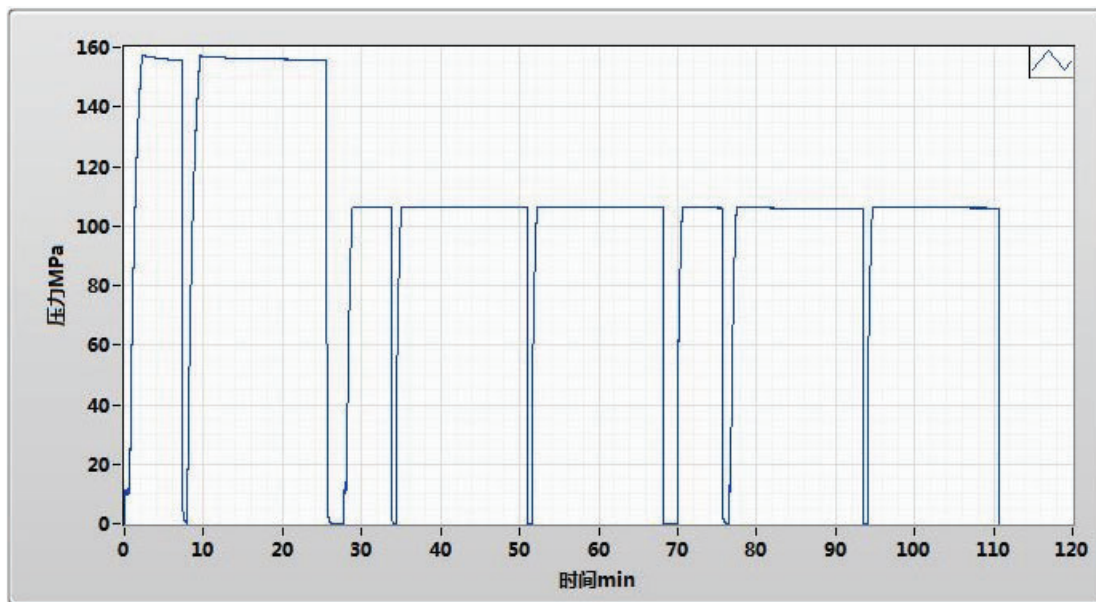
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP033F046	5-1/8" 15000Psi	API 6A 21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.77	155.54	4.0	1.23
2	156.84	155.78	15.0	1.06
3	106.24	106.11	4.0	0.12
4	106.33	106.10	15.0	0.23
5	106.27	106.11	15.0	0.16
6	106.22	106.03	4.0	0.20
7	106.23	105.80	15.0	0.43
8	106.22	106.01	15.0	0.21



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.11.15



REPORT INDEX

Purchase Order: 1336

Quantity: 1EA

Shipment No.: Crate# AP033F047

Shipment Date: November, 2022

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
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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 # 1336, 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 #: 1336

SERIAL NO.: AP033F047

PART NO.: PFFY105/130AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: November, 2022

Customer: _____

P.O. Number: 1336



安澜科技（江苏）股份有限公司

No.: AV00012

Date:November, 2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Customer		PO No.	Description		Product			P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications									
		1336			HYDRAULIC GATE VALVE			PFY105/130AL-00	AP033F047	1	5-1/8"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st									
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Melting Practice			Austenized		Quenched		Heat Treatment			Temper(2)										
					Q	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)								
PFY105/130A L-00	BODY	TX21-01970	RC-09-54	AISI 4130 75K,Per ASTM A29	1	AP033316	Forging	860	5.5H	WATER	28	39	675	8.5H	AIR	/	/								
	BONNET	TX21-01970	RS-9-072	AISI 4130 75K,Per ASTM A29	1	AP033477	Forging	860	5.0H	WATER	33	35	700	5.0H	AIR	/	/								
	STEM	YX2208-2019	HY220918-2	PH17-4 105K,Per ASTM A564/564M	1	AP033385	Forging	1030	3.5H	WATER	26	29	630	5.0H	AIR	630	5.0H								
	BALANCE STEM	YX2206-1508	HY220918-2	PH17-4 105K,Per ASTM A564/564M	1	AP033488	Forging	1030	3.5H	WATER	26	29	630	5.0H	AIR	630	5.0H								
	GATE	2015802331	22091002Q1	AISI 410 75K,Per ASTM A276/276M	1	AP033494	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H								
BODY BUSHING		2015802331	22091002Q1	AISI 410 75K,Per ASTM A276/276M	2	AP033461	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H								
Physical Properties																									
Melt No.	H.T. No.	Chemical Analysis (wt. %)										Impact (-46°C)			Hardness	Equipment Type									
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb			Fe	Spec	Size	Orig	Tensile (MPa)	Yield (MPa)	Elongatio n (%)	ROA (%)	Impact direction (Transverse)
TX21-01970	RC-09-54	0.32	0.64	0.24	0.013	0.003	0.99	0.21	0.207	0.006	/	/	0.02	/	/	QTC	8"x8"x10"	QTC	680	572	40.0	47.0	55/58/45	218HBW	JBW-300B/ WDW-300
TX21-01970	RS-9-072	0.32	0.64	0.24	0.013	0.003	0.99	0.21	0.207	0.006	/	/	0.02	/	/	QTC	8"x8"x10"	QTC	691	538	28.0	70.0	75/80/78	229HBW	JBW-300B/ WDW-300
YX2208-2019	HY220918-2	0.026	0.47	0.40	0.027	0.002	15.60	4.15	/	/	/	/	3.64	0.244	/	QTC	ø 80x200	QTC	1075	942	20.0	61.6	44/39/40	32HRC	JBW-300B/ WDW-300
YX2206-1508	HY220918-2	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	/	3.63	0.231	/	QTC	ø 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/ WDW-300
2015802331	22091002Q1	0.11	0.39	0.36	0.018	0.003	11.66	0.09	0.04	/	/	/	0.05	/	/	QTC	200x100x100	QTC	710	555	26.5	68.0	/	217HBW	JBW-300B/ WDW-300
2015802331	22091002Q1	0.11	0.39	0.36	0.018	0.003	11.66	0.09	0.04	/	/	/	0.05	/	/	QTC	200x100x100	QTC	710	555	26.5	68.0	/	217HBW	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



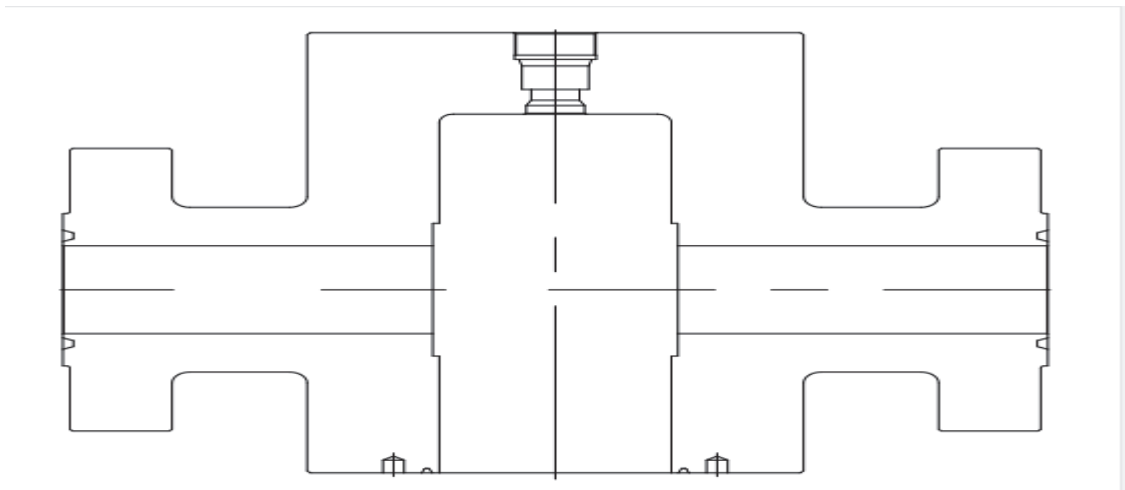
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
							2022
Drawing #:	PFFY105/130A L-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1108-00 2
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/
Description:	5-1/8"15000psi	Body				Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033316	RC-09-54	211HBW/216HBW 217HBW/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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

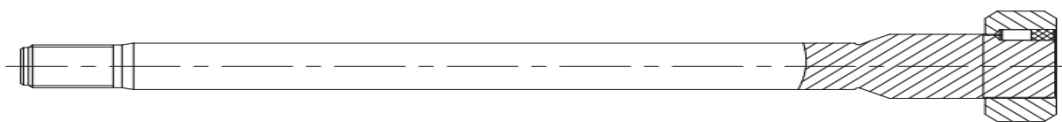
[illegible]



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Sketch:



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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

A technical drawing of a ship's hull cross-section. The drawing shows the internal structure, including the keel, bottom plating, and various internal compartments. Key features include a large circular hatch in the center, a smaller circular hatch at the bow, and a rectangular hatch at the stern. The drawing is oriented horizontally, with the bow on the left and the stern on the right. The hull is shown in a cross-section view, revealing the internal structure and the shape of the hull.

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



HARDNESS TEST REPORT

9



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT							
Customer:			Customer PO#:			Date:	
Drawing #:		Specification:		API Monogram:		Report #:	
Part No.:		Material:				Coating:	
Description:	5-1/8"15000psi Balance Stem					Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP033488	HY220918-2	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#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1003-005		
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/		
Description:	5-1/8"15000psi Body					Quantity:	1		
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result		
1	AP033316	RC-09-54	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 FBH Block		Level as per UT:	II			
Equipment:	MUT-800C	Couplant:	OIL						
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II			



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:		Specification:		API Monogram:		Report #:		
Part No.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"15000psi Bonnet					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP033477	RS-9-072	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL					
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1336		Date:	November, 2022
Drawing #:	PFFY105/130 AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1007-00 3
Part No.:	X-275071-01	Material:	PH17-4 105K			Coating:	/
Description:	5-1/8"15000psi Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP033385	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD



安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	2022
Drawing #:	PFFY105/130AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1014-00 4
Part No.:	X-111144-01	Material:	PH17-4 105K			Coating:	/
Description:	5-1/8"15000psi Balance Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP033488	HY220918-2	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



MAGNETIC PARTICLE INSPECTION REPORT

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1010-002	
Part No.:	X-111125-01	Material:	AISI 4130 75K			Coating:	/	
Description:	5-1/8"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/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	AP033477	RS-9-072	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:		2022.10		



LIQUID PENETRATE EXAMINATION

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	H220925-06	
Part No.:	X-111093-01	Material:	AISI 410 75K			Coating:	/	
Description:	5-1/8"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	AP033494	22091002Q1	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:	2022.09			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	H220925-06H	
Part No.:	X-111093-01	Material:	AISI 410 75K			Coating:	WC	
Description:	5-1/8"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	AP033494	22091002Q1	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:	2022.09			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	H220925-04	
Part No.:	X-111077-01	Material:	AISI 410 75K				Coating:	/	
Description:	5-1/8"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/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	AP033457	22091002Q1	Acceptable						
2	AP033461	22091002Q1	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:		2022.09		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	H220925-04H	
Part No.:	X-111077-01	Material:	AISI 410 75K			Coating:	WC	
Description:	5-1/8"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	AP033457	22091002Q1	Acceptable					
2	AP033461	22091002Q1	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:		2022.09		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130AL-00	Specification:	QJ/JJ07.01.03.02/ASTM E165		API Monogram:	6A-2074	Report #:	PTP-1023-001	
Part No.:	X-111144-01	Material:	PH17-4-105K				Coating:	/	
Description:	5-1/8"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	AP033488	HY220918-2	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:	2022.10			



安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:				Customer PO#:	1336		Date:	November, 2022	
Drawing #:	PFFY105/130 AL-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP033F047		
Part No.:	X-111398-01	Material:	AISI 4130 75K			Coating:	/		
Description:	5-1/8"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	AP033316	RC-09-54	OK	OK					

Drift Test:

Diameter ϕ 102.46 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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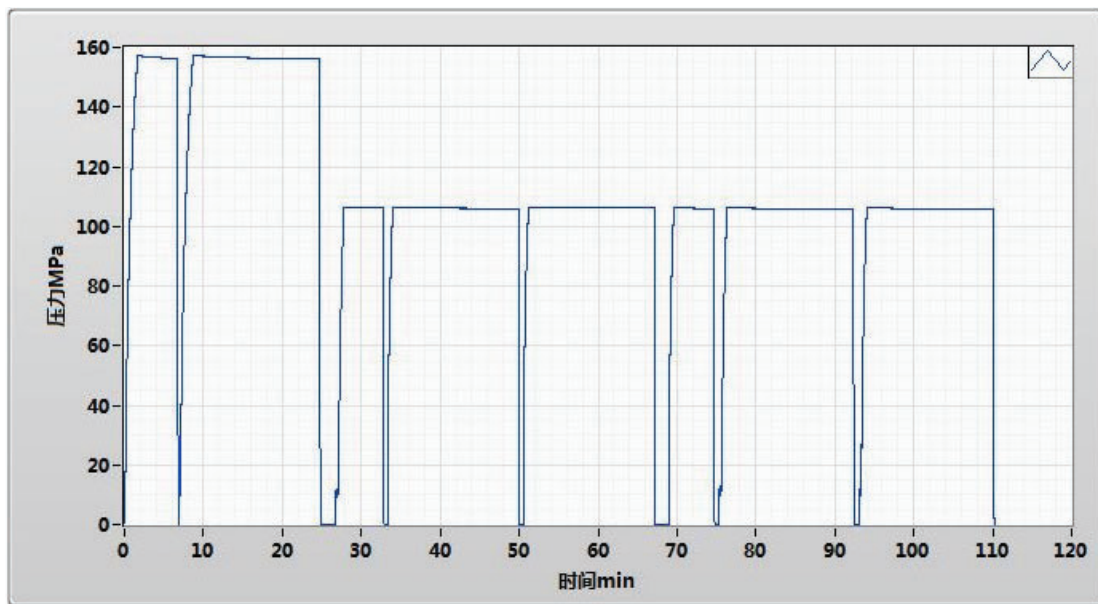
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP033F047	5-1/8" 15000Psi	API 6A 21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	156.89	156.22	4.0	0.67
2	157.09	156.14	15.0	0.95
3	106.25	106.07	4.0	0.18
4	106.25	105.95	15.0	0.30
5	106.32	106.11	15.0	0.21
6	106.13	105.93	4.0	0.19
7	106.19	105.69	15.0	0.49
8	106.16	105.74	15.0	0.42



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.11.15



REPORT INDEX

Purchase Order: 1369

Quantity: 1EA

Shipment No.: Crate# AP042F001

Shipment Date: December,2022

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



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1369, 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 #: 1369

SERIAL NO.: AP042F001

PART NO.: PFF105/103AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: December, 2022

Customer: _____

P.O. Number: 1369



Date: December, 2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

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



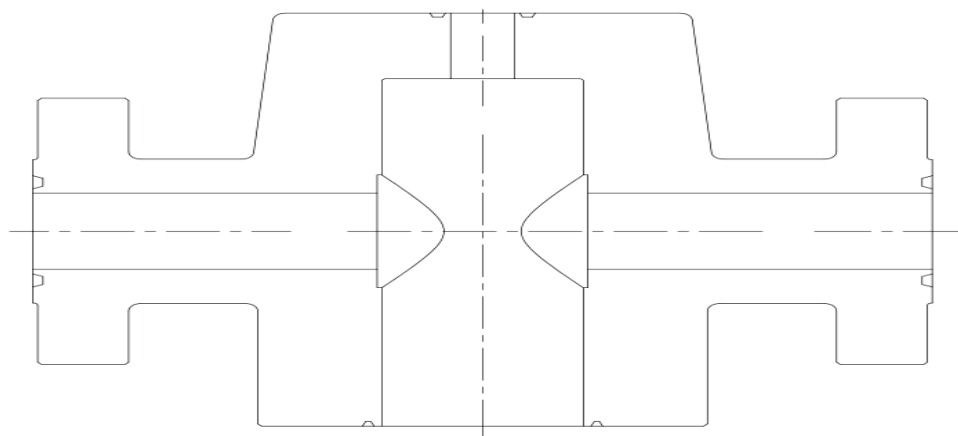
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1126-00 4
Part No.:	B04-210	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	AP042035	RC-11-19	213HBW/219HBW 222HBW/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			



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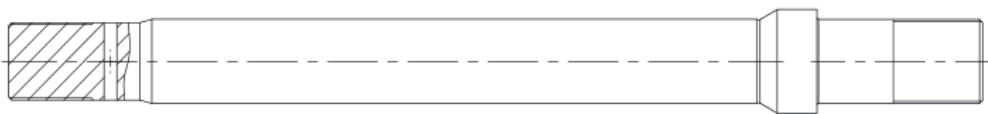
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HP-1127-003	
Part No.:	B04-352	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	AP042090	HY221003-3	30HRC					

Sketch:



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



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[illegible]



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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#:	1369		Date:	December,2022
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20221021-05
Part No.:	B04-344	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	AP033114	HC2209019-01	1171HV				
2	AP033104	HC2209019-01	1171HV				

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103A L-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HP-1127-002	
Part No.:	B04-351	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	AP042076	HY221003-3	31HRC					
Sketch:								
Method Used:								
Acceptable Hardness:	27HRC-33HRC		Approved By:			Examined By:		
Judgments:	[V] Conforms		Xin zheng			Zhengguo Yao		
	[] Does Not Conform							



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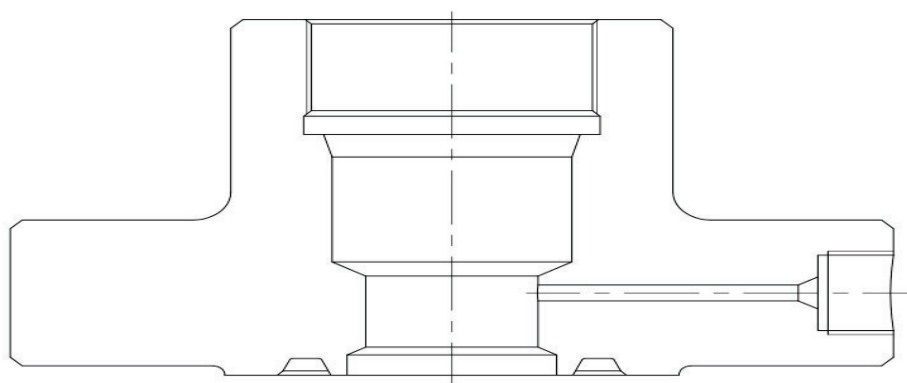
ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

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

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP042006	RC-10-57	215HBW/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

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074		Report #:	UTP-1115-003	
Part No.:	B04-210	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	AP042035	RC-11-19	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+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#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1111-00 4
Part No.:	B04-355	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	AP042058	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	

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	AP042090	HY221003-3	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1103-004
Part No.:	B04-351	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	AP042076	HY221003-3	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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 #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1115-00 4
Part No.:	B04-349	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	AP042006	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	MTP-1126-003	
Part No.:	B04-210	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/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	AP042035	RC-11-19	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:		2022.11		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.12	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1202-001	
Part No.:	B04-355	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/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	AP042058	RC-10-57	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTP-1126-001
Part No.:	B04-352	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	AP042090	HY221003-3	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:		2022.11	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2210-Q68
Part No.:	B04-211	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:		$\geq 1000\text{Uw/cm}^2$	
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	AP042157	HC2209019-01	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:	2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2210-H68	
Part No.:	B04-211	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	AP042157	HC2209019-01	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:		2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2210-Q69	
Part No.:	B04-344	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/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	AP033114	HC2209019-01	Acceptable					
2	AP033104	HC2209019-01	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:	2022.10			



LIQUID PENETRATE EXAMINATION

24



LIQUID PENETRATE EXAMINATION

25

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1129-001	
Part No.:	B04-349	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/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	AP042006	RC-10-57	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:		2022.11		



安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:				Customer PO#:	1369		Date:	2022.12	
Drawing #:	PFF105/103A L-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP042F001		
Part No.:	B04-210	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	AP042035	RC-11-19	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		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

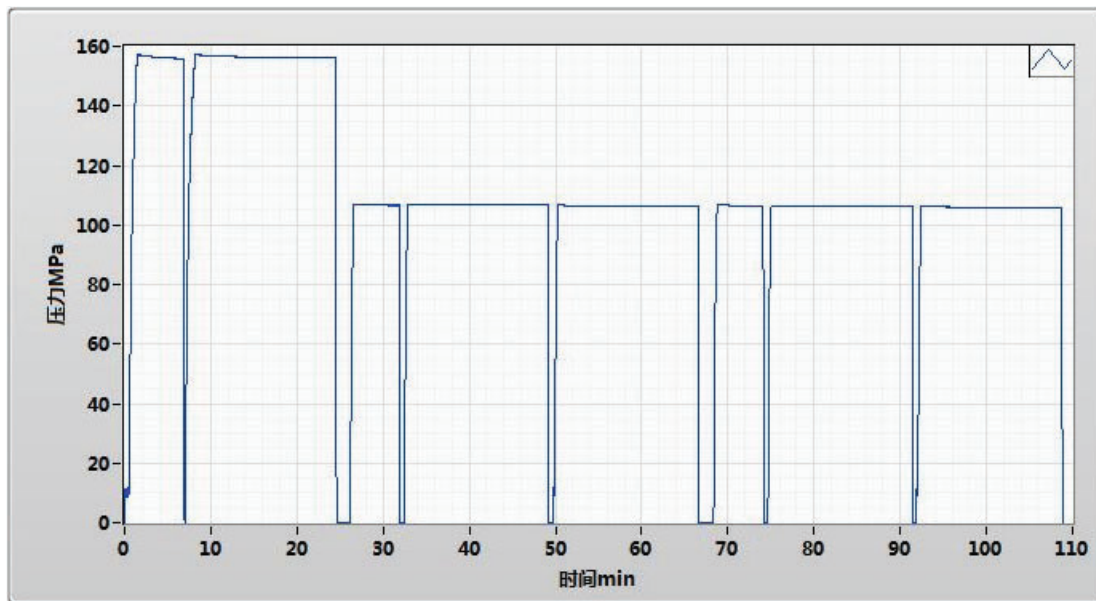
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Manual Gate Valve	AP042F001	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	156.62	155.84	4.0	0.78
2	156.92	156.01	15.0	0.91
3	106.64	106.57	4.0	0.07
4	106.89	106.70	15.0	0.19
5	106.51	106.08	15.0	0.43
6	106.58	106.38	4.0	0.21
7	106.37	106.07	15.0	0.31
8	106.14	105.70	15.0	0.44



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.12.07



REPORT INDEX

Purchase Order: 1369

Quantity: 1EA

Shipment No.: Crate# AP042F002

Shipment Date: December,2022

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
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CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1369, 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 #: 1369

SERIAL NO.: AP042F002

PART NO.: PFF105/103AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: December, 2022

Customer: _____

P.O. Number: 1369



安澜科技（江苏）股份有限公司

No.: AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Date:December,2022

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications														
	1369	MANUAL GATE VALVE	PFF105/103AL-00	AP042P002	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st														
P/N	Description		Melting Practice			Austenized			Quenched			Temper(1)			Temper(2)										
	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium								
	22E104713	RC-11-19	AISI 4130 75K,Per ASTM A29	1	AP042027	Forging	860	5.0H	WATER	26	37	685	5.0H	AIR	/	/	/								
	32109332E	RC-10-57	AISI 4130 75K,Per ASTM A29	1	AP042045	Forging	865	4.0H	WATER	27	38	700	6.0H	AIR	/	/	/								
	YX2206-1508	HY221003-3	PH17-4 105K,Per ASTM A564/564M	1	AP042099	Forging	1030	3.5H	WATER	25	28	630	5.2H	AIR	630	5.0H	AIR								
	YX2206-1508	HY221003-3	PH17-4 105K,Per ASTM A564/564M	1	AP042078	Forging	1030	3.5H	WATER	25	28	630	5.2H	AIR	630	5.0H	AIR								
	121V-1193	HC2209019-01	AISI 410 75K,Per ASTM A276/276M	1	AP042155	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR								
	121V-1193	HC2209019-01	AISI 410 75K,Per ASTM A276/276M	2	AP033132 AP033130	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR								
	22106193C	RC-10-57	AISI 4130 75K,Per ASTM A29	1	AP042020	Forging	865	4.0H	WATER	27	38	700	6.0H	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)	Elongati on (%)	ROA (%)	Impact(-46°C) Impact direction (Transverse)	Hardness	Equipment Type		
22E104713		RC-11-19	0.32	0.68	0.31	0.010	0.002	1.04	0.28	0.22	0.015	/	/	0.02	/	/	4"x4"x8"	QTC	681	540	45.0	47.0	65/58/47	222HBW	JBW-300B/ WDW-300
32109332E		RC-10-57	0.30	0.56	0.29	0.012	0.003	1.04	0.01	0.21	0.006	/	/	0.02	/	/	4"x4"x8"	QTC	685	542	45.0	47.0	67/59/48	222HBW	JBW-300B/ WDW-300
YX2206-1508		HY221003-3	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	3.63	0.231	/	φ 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/ WDW-300	
YX2206-1508		HY221003-3	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	3.63	0.231	/	φ 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/ WDW-300	
121V-1193		HC2209019-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	100x100x200	QTC	700	590	23.0	67.0	/	224HBW	JBW-300B/ WDW-300	
121V-1193	HC2209019-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	100x100x200	QTC	700	590	23.0	67.0	/	224HBW	JBW-300B/ WDW-300		
22106193C	RC-10-57	0.31	0.57	0.27	0.010	0.005	1.06	0.23	0.24	0.01	/	/	0.03	/	/	4"x4"x8"	QTC	681	548	43.0	46.0	65/56/44	218HBW	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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:		Date:			
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1126-00 4
Part No.:	B04-210	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	AP042027	RC-11-19	217HBW/219HBW 222HBW/215HBW				

Sketch:

The sketch shows a symmetrical cross-section of a mechanical component. It has a central vertical axis of symmetry indicated by a dashed line. The part consists of several horizontal sections connected by vertical walls. On the left side, there are two small semi-circular features protruding from the main body. In the center, there is a large rectangular section with a smaller circular feature at its base. The right side mirrors the left side with another set of semi-circular features. Dimensions are indicated by thin lines and arrows, though no numerical values are provided in this view.

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



HARDNESS TEST REPORT

6



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[illegible]



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[illegible]

Technical drawing of a mechanical part, showing a side view. The part has a central circular feature and a hatched section on the right, indicating a specific material or finish. The drawing includes a horizontal centerline and a vertical centerline.

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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



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[illegible]

A technical drawing of a rectangular object, possibly a cross-section of a mechanical part. The drawing is symmetrical about a central vertical line. It features a central horizontal bar or slot. The top and bottom edges are slightly irregular, suggesting a specific manufacturing process or material. The drawing is composed of black lines on a white background.

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103A L-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HP-1127-002	
Part No.:	B04-351	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	AP042078	HY221003-3	31HRC					
Sketch:								
Method Used:								
Acceptable Hardness:		27HRC-33HRC		Approved By:		Examined By:		
Judgments:		[V] Conforms		Xin zheng		Zhengguo Yao		
		[] Does Not Conform						



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[illegible]

This technical drawing shows a mechanical assembly in a half-section view. The assembly is symmetrical about a vertical centerline, indicated by a dashed line. The main component is a cylindrical body with a flange at the top and a base. A horizontal shaft passes through the center of the body, with a nut and washer on the right side. The base of the assembly is supported by two small, trapezoidal feet. The drawing uses solid lines for visible edges and dashed lines for hidden internal features.

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		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074		Report #:	UTP-1115-003	
Part No.:	B04-210	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	AP042027	RC-11-19	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II			



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1111-00 4
Part No.:	B04-355	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	AP042045	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	

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	AP042099	HY221003-3	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1103-004
Part No.:	B04-351	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	AP042078	HY221003-3	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident. #:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1115-00 4	
Part No.:	B04-349	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	AP042020	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1126-003	
Part No.:	B04-210	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/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	AP042027	RC-11-19	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:		2022.11		

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1369		Date:	2022.12	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	MTP-1202-001
Part No.:	B04-355	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/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	AP042045	RC-10-57	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		



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[illegible]

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:	2022.11



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2210-Q68
Part No.:	B04-211	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:		$\geqslant 1000\text{Uw/cm}^2$	
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	AP042155	HC2209019-01	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:	2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2210-H68	
Part No.:	B04-211	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	AP042155	HC2209019-01	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:		2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2210-Q69	
Part No.:	B04-344	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/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	AP033132	HC2209019-01	Acceptable					
2	AP033130	HC2209019-01	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:	2022.10			





ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ASTM E165		API Monogram:	6A-2074	Report #:	PTP-1125-001	
Part No.:	B04-351	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	AP042078	HY221003-3	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:	2022.11			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1129-001	
Part No.:	B04-349	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/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	AP042020	RC-10-57	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:		2022.11		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:		1369		Date:		2022.12					
Drawing #:		PFF105/103A L-00		Specification:		API6A-21st		API Monogram:		6A-2074		Report #:		AP042F002	
Part No.:		B04-210		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	AP042027	RC-11-19	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													



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

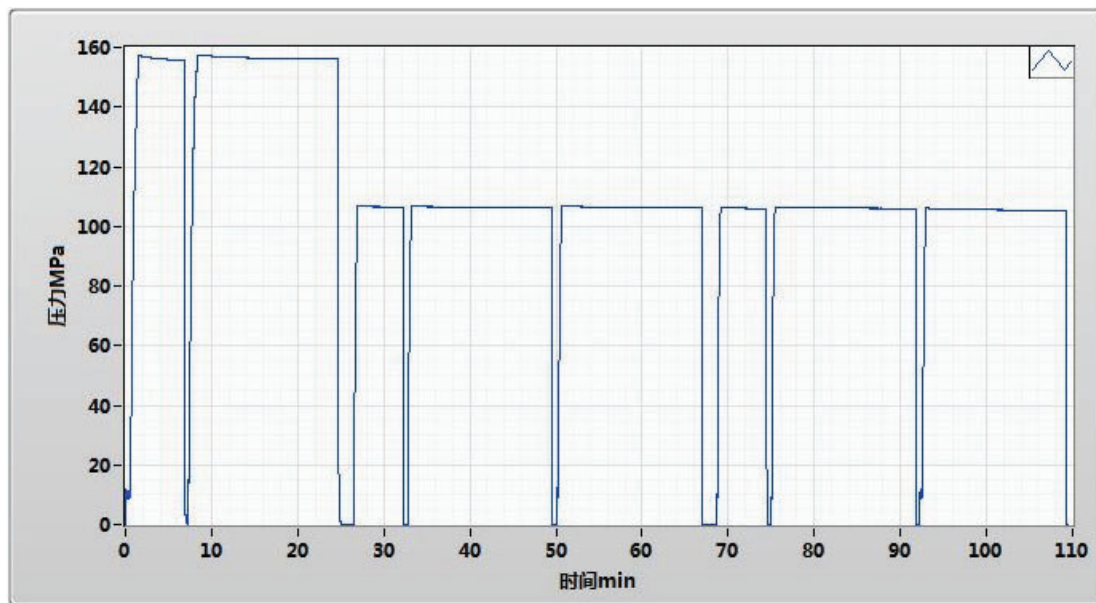
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Manual Gate Valve	AP042F002	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	156.53	155.61	4.0	0.92
2	157.10	156.01	15.0	1.09
3	106.60	106.52	4.0	0.08
4	106.60	106.41	15.0	0.19
5	106.65	106.16	15.0	0.49
6	106.16	105.93	4.0	0.23
7	106.29	105.99	15.0	0.30
8	105.90	105.33	15.0	0.57



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.12.07



REPORT INDEX

Purchase Order: 1369

Quantity: 1EA

Shipment No.: Crate# AP042F003

Shipment Date: December,2022

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



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1369, 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 #: 1369

SERIAL NO.: AP042F003

PART NO.: PFF105/103AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: December, 2022

Customer: _____

P.O. Number: 1369



安澜科技（江苏）股份有限公司

No.: AV00012

Date:December,2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Customer		PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications											
		1369	MANUAL GATE VALVE	PFF105/103AL-00	AP042P003	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st											
P/N	Parts	Description		Melting Practice			Austenized			Quenched		Temper(1)		Temper(2)									
		Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Time (min)	Medium						
PFF 105/103AL-00	BODY	22E104713	RC-11-19	AISI 4130 75K,Per ASTM A29	1	AP042038	Forging	860	5.0H	WATER	26	37	685	5.0H	AIR	/	/						
	BONNET	32109332E	RC-10-57	AISI 4130 75K,Per ASTM A29	1	AP042050	Forging	865	4.0H	WATER	27	38	700	6.0H	AIR	/	/						
	STEM	YX2206-1508	HY221003-3	PH17-4 105K,Per ASTM A564/564M	1	AP042094	Forging	1030	3.5H	WATER	25	28	630	5.2H	AIR	630	5.0H						
	BALANCE STEM	YX2206-1508	HY221003-3	PH17-4 105K,Per ASTM A564/564M	1	AP042067	Forging	1030	3.5H	WATER	25	28	630	5.2H	AIR	630	5.0H						
	GATE	121V-1193	HC2209019-01	AISI 410 75K,Per ASTM A276/276M	1	AP042149	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H						
	BODY BUSHING	121V-1193	HC2209019-01	AISI 410 75K,Per ASTM A276/276M	2	AP042128 AP033135	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H						
	TAIL BONNET	22106193C	RC-10-57	AISI 4130 75K,Per ASTM A29	1	AP042004	Forging	865	4.0H	WATER	27	38	700	6.0H	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)	Elongati on (%)	ROA (%)	Impact(-46°C) Impact direction (Transverse)	Hardness	Equipment Type	
22E104713	RC-11-19	0.32	0.68	0.31	0.010	0.002	1.04	0.28	0.22	0.015	/	/	0.02	/	4"x4"x8"	QTC	681	540	45.0	47.0	65/58/47	222HBW	JBW-300B/WDW-300
32109332E	RC-10-57	0.30	0.56	0.29	0.012	0.003	1.04	0.01	0.21	0.006	/	/	0.02	/	4"x4"x8"	QTC	685	542	45.0	47.0	67/59/48	222HBW	JBW-300B/WDW-300
YX2206-1508	HY221003-3	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	3.63	0.231	/	ø 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/WDW-300
YX2206-1508	HY221003-3	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	3.63	0.231	/	ø 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/WDW-300
121V-1193	HC2209019-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	100x100x200	QTC	700	590	23.0	67.0	/	224HBW	JBW-300B/WDW-300
121V-1193	HC2209019-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	100x100x200	QTC	700	590	23.0	67.0	/	224HBW	JBW-300B/WDW-300
22106193C	RC-10-57	0.31	0.57	0.27	0.010	0.005	1.06	0.23	0.24	0.01	/	/	0.03	/	4"x4"x8"	QTC	681	548	43.0	46.0	65/56/44	218HBW	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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:		Date:			
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1126-00 4
Part No.:	B04-210	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	AP042038	RC-11-19	212HBW/217HBW 219HBW/214HBW				

Sketch:

The sketch shows two cross-sectional views of a mechanical component. The left view displays a flange-like structure with internal features like holes and grooves. The right view shows another cross-section, possibly through the center or at a different angle, highlighting symmetrical components and internal cavities. Dashed lines indicate hidden edges and internal structures.

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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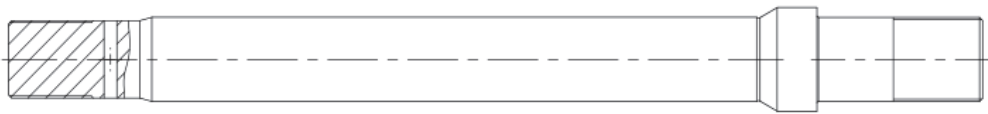
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HP-1127-003	
Part No.:	B04-352	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	AP042094	HY221003-3	30HRC					

Sketch:



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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Technical drawing of a mechanical part, showing a side view. The part has a central circular feature and a hatched section on the right, indicating a specific material or finish. The drawing includes dimension lines and a center line.

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		



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[illegible]

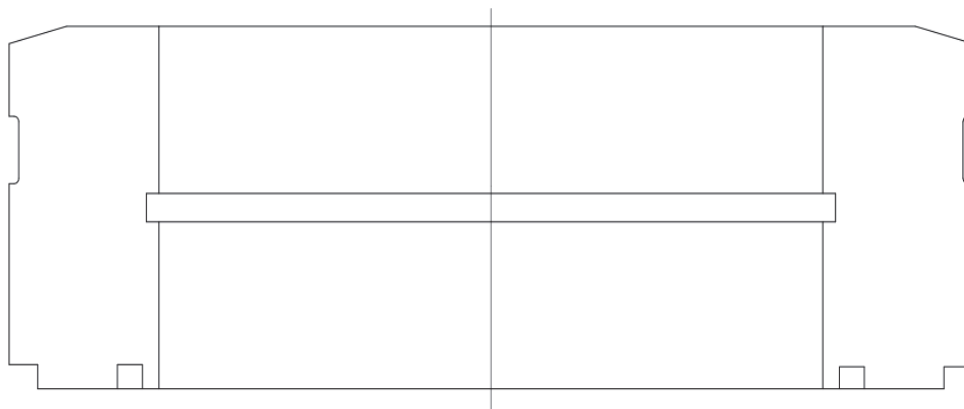
A technical drawing of a rectangular object, possibly a cross-section of a mechanical part. It features a central horizontal bar and a vertical line passing through the center. The drawing is composed of black outlines on a white background. The central bar is a thin rectangle. The main body is a larger rectangle with a central vertical line. There are small rectangular features at the bottom corners. The overall shape is symmetrical about the central vertical line.

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



HARDNESS TEST REPORT

Sketch:



10



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103A L-00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HP-1127-002
Part No.:	B04-351	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	AP042067	HY221003-3	29HRC				
Sketch:							
Method Used:							
Acceptable Hardness:		27HRC-33HRC		Approved By:		Examined By:	
Judgments:		[V] Conforms		Xin zheng		Zhengguo Yao	
		[] Does Not Conform					



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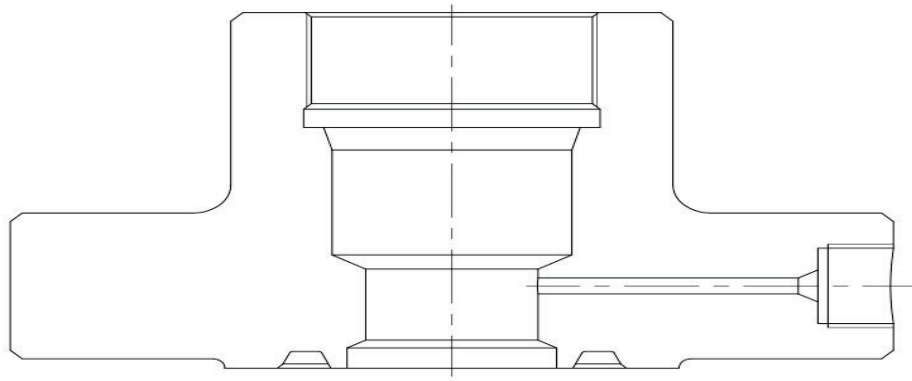
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HARDNESS TEST REPORT

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

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP042004	RC-10-57	209HBW/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

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388		API Monogram:	6A-2074	Report #:	UTP-1115-003	
Part No.:	B04-210	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	AP042038	RC-11-19	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II		

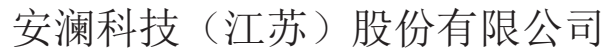


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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1111-00 4
Part No.:	B04-355	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	AP042050	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



ULTRASONIC EXAMINATION REPORT

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



安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1103-004
Part No.:	B04-351	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	AP042067	HY221003-3	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1115-00 4	
Part No.:	B04-349	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	AP042004	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	MTP-1126-003	
Part No.:	B04-210	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	AP042038	RC-11-19	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:		2022.11		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.12	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1202-001	
Part No.:	B04-355	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/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	AP042050	RC-10-57	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		



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[illegible]

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:	2022.11



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2210-Q68
Part No.:	B04-211	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:		$\geq 1000\text{Uw/cm}^2$	
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	AP042149	HC2209019-01	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:	2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2210-H68	
Part No.:	B04-211	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	AP042149	HC2209019-01	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:		2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	NCS-2210-Q69	
Part No.:	B04-344	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/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	AP042128	HC2209019-01	Acceptable						
2	AP033135	HC2209019-01	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:		2022.10		



LIQUID PENETRATE EXAMINATION

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ASTM E165		API Monogram:	6A-2074	Report #:	PTP-1125-001	
Part No.:	B04-351	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	AP042067	HY221003-3	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:		2022.11			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1129-001	
Part No.:	B04-349	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/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	AP042004	RC-10-57	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:		2022.11		



HYDROSTATIC TEST REPORT

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安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

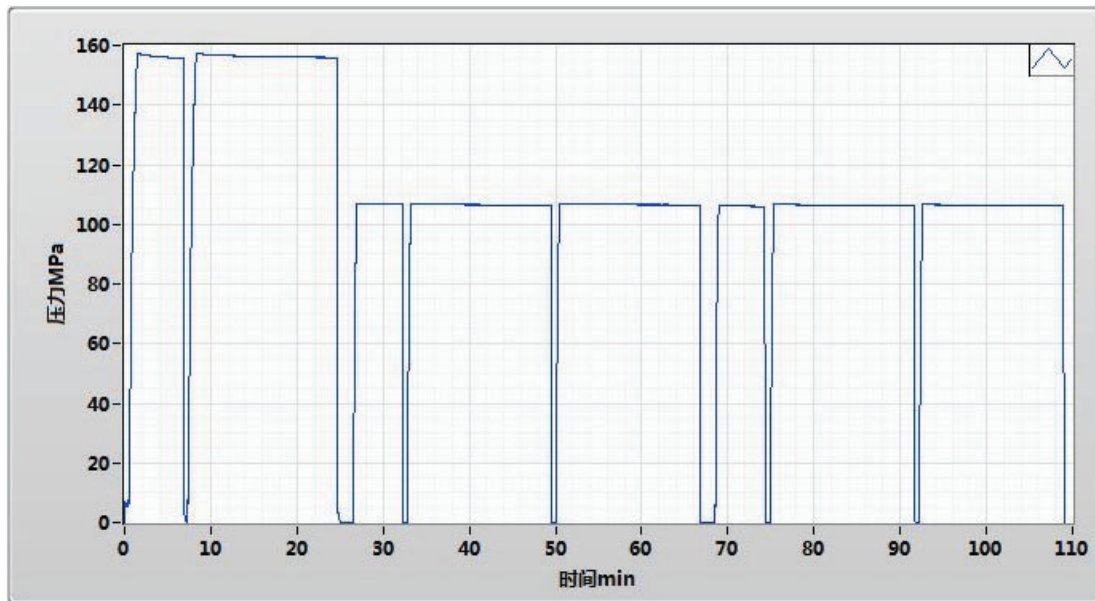
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Manual Gate Valve	AP042F003	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	156.54	155.65	4.0	0.89
2	156.93	155.93	15.0	1.00
3	106.67	106.58	4.0	0.09
4	106.71	106.50	15.0	0.21
5	106.69	106.54	15.0	0.16
6	106.19	105.99	4.0	0.20
7	106.64	106.28	15.0	0.35
8	106.58	106.36	15.0	0.21



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.12.08



REPORT INDEX

Purchase Order: 1369

Quantity: 1EA

Shipment No.: Crate# AP042F004

Shipment Date: December,2022

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



CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1369, 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 #: 1369

SERIAL NO.: AP042F004

PART NO.: PFF105/103AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: December, 2022

Customer: _____

P.O. Number: 1369



安澜科技（江苏）股份有限公司

No.: AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Date:December,2022

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications												
	1369	MANUAL GATE VALVE	PFF105/103AL-00	AP042P004	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st												
P/N	Parts	Description		Melting Practice			Austenized			Quenched		Temper(1)			Temper(2)								
		Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)						
	BODY	22E104713	RC-11-19	AISI 4130 75K,Per ASTM A29	1	AP042037	Forging	860	5.0H	WATER	26	37	685	5.0H	AIR	/	/						
	BONNET	32109332E	RC-10-57	AISI 4130 75K,Per ASTM A29	1	AP042060	Forging	865	4.0H	WATER	27	38	700	6.0H	AIR	/	/						
	STEM	YX2206-1508	HY221003-3	PH17-4 105K,Per ASTM A564/564M	1	AP042084	Forging	1030	3.5H	WATER	25	28	630	5.2H	AIR	630	5.0H						
	BALANCE STEM	YX2206-1508	HY221003-3	PH17-4 105K,Per ASTM A564/564M	1	AP042068	Forging	1030	3.5H	WATER	25	28	630	5.2H	AIR	630	5.0H						
	GATE	121V-1193	HC2209019-01	AISI 410 75K,Per ASTM A276/276M	1	AP042148	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H						
	BODY BUSHING	121V-1193	HC2209019-01	AISI 410 75K,Per ASTM A276/276M	2	AP042103 AP042101	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H						
	TAIL BONNET	22106193C	RC-10-57	AISI 4130 75K,Per ASTM A29	1	AP042003	Forging	865	4.0H	WATER	27	38	700	6.0H	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)	Elongati on (%)	ROA (%)	Impact(-46°C) Impact direction (Transverse)	Hardness	Equipment Type	
22E104713	RC-11-19	0.32	0.68	0.31	0.010	0.002	1.04	0.28	0.22	0.015	/	/	0.02	/	4"x4"x8"	QTC	681	540	45.0	47.0	65/58/47	222HBW	JBW-300B/ WDW-300
32109332E	RC-10-57	0.30	0.56	0.29	0.012	0.003	1.04	0.01	0.21	0.006	/	/	0.02	/	4"x4"x8"	QTC	685	542	45.0	47.0	67/59/48	222HBW	JBW-300B/ WDW-300
YX2206-1508	HY221003-3	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	/	3.63	0.231	ø 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/ WDW-300
YX2206-1508	HY221003-3	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	/	3.63	0.231	ø 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/ WDW-300
121V-1193	HC2209019-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	100x100x200	QTC	700	590	23.0	67.0	/	224HBW	JBW-300B/ WDW-300
121V-1193	HC2209019-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	100x100x200	QTC	700	590	23.0	67.0	/	224HBW	JBW-300B/ WDW-300
22106193C	RC-10-57	0.31	0.57	0.27	0.010	0.005	1.06	0.23	0.24	0.01	/	/	0.03	/	4"x4"x8"	QTC	681	548	43.0	46.0	65/56/44	218HBW	JBW-300B/ WDW-300



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1126-00 4
Part No.:	B04-210	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	AP042037	RC-11-19	207HBW/212HBW 224HBW/221HBW				

Sketch:

The sketch shows a symmetrical mechanical component along its horizontal centerline. It features a central vertical section with a wider base and narrower top flange. The outer profile has rounded shoulders transitioning between different diameters. Dashed lines indicate internal features or hidden edges. A dimension line at the bottom indicates a total width of 10mm.

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



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[illegible]



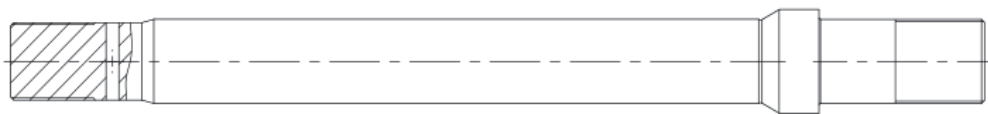
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HP-1127-003	
Part No.:	B04-352	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	AP042084	HY221003-3	29HRC					

Sketch:



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



HARDNESS TEST REPORT

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Method Used:			
Acceptable Hardness:	94HRB-99HRB	Approved By:	Examined By:
Judgments:	[☒] 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#:	1369		Date:	December,2022
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20221021-05
Part No.:	B04-344	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	AP042103	HC2209019-01	1171HV				
2	AP042101	HC2209019-01	1197HV				

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

The technical drawing shows a shaft with a keyway. The side view (top) shows a long cylinder with a keyway cut into its length. The cross-section view (bottom) shows the shaft with a keyway cut into its length, revealing the internal structure of the keyway. The keyway is a rectangular slot cut into the shaft, with a key inserted into it. The key is a rectangular piece of metal that fits into the keyway and is used to connect the shaft to a pulley or gear.

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

The drawing shows a side view of a mechanical assembly. A central vertical component features a large cylindrical body with a flange at the top and a smaller cylindrical section at the bottom. A horizontal pipe extends from the right side of the central body. The entire assembly is mounted on a base with two small, trapezoidal feet. A vertical dashed line indicates the axis of symmetry.

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#:	1369		Date:	2022.11	
Drawing #:	PFF105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388		API Monogram:	6A-2074	Report #:	UTP-1115-003	
Part No.:	B04-210	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	AP042037	RC-11-19	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II		

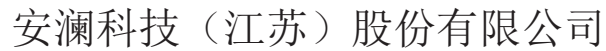


安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388		API Monogram:	6A-2074	Report #:	UTP-1111-00 4	
Part No.:	B04-355	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	AP042060	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ULTRASONIC EXAMINATION REPORT

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



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1103-004
Part No.:	B04-351	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	AP042068	HY221003-3	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident. #:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1115-00 4	
Part No.:	B04-349	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	AP042003	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	MTP-1126-003	
Part No.:	B04-210	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/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	AP042037	RC-11-19	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:		2022.11		

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1369		Date:	2022.12	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	MTP-1202-001
Part No.:	B04-355	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/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	AP042060	RC-10-57	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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:	2022.11



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2210-Q68
Part No.:	B04-211	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:		$\geq 1000\text{Uw/cm}^2$	
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	AP042148	HC2209019-01	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:	2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2210-H68	
Part No.:	B04-211	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	AP042148	HC2209019-01	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:		2022.10		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:				Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	NCS-2210-Q69	
Part No.:	B04-344	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:		$\geq 1000Uw/cm^2$		
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	AP042103	HC2209019-01	Acceptable						
2	AP042101	HC2209019-01	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			Date:	2022.10				
NDT Level:	MT II								





ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ASTM E165		API Monogram:	6A-2074	Report #:	PTP-1125-001	
Part No.:	B04-351	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	AP042068	HY221003-3	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:	2022.11			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1129-001	
Part No.:	B04-349	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/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	AP042003	RC-10-57	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:		2022.11		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:		1369		Date:		2022.12					
Drawing #:		PFF105/103A L-00		Specification:		API6A-21st		API Monogram:		6A-2074		Report #:		AP042F004	
Part No.:		B04-210		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	AP042037	RC-11-19	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															
Judgments:					[V] Conforms			Xin Zheng		Yifei Ma					
					[] Does Not Conform										



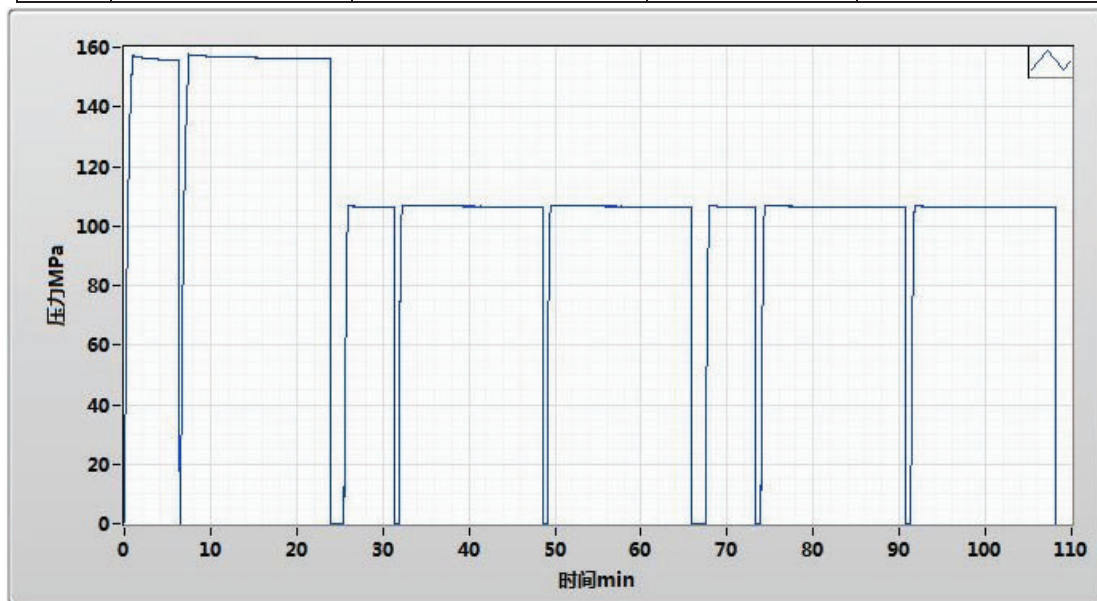
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Manual Gate Valve	AP042F004	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	156.41	155.56	4.0	0.85
2	157.16	156.20	15.0	0.95
3	106.52	106.45	4.0	0.07
4	106.70	106.51	15.0	0.20
5	106.68	106.51	15.0	0.17
6	106.54	106.33	4.0	0.21
7	106.67	106.28	15.0	0.39
8	106.54	106.24	15.0	0.30



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.12.06



REPORT INDEX

Purchase Order: 1369

Quantity: 1EA

Shipment No.: Crate# AP042F007

Shipment Date: December,2022

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
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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 # 1369, 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 #: 1369

SERIAL NO.: AP042F007

PART NO.: PFF105/103AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: December, 2022

Customer: _____

P.O. Number: 1369



安澜科技（江苏）股份有限公司

No.: AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Date:December,2022

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications												
	1369	MANUAL GATE VALVE	PFF105/103AL-00	AP042P007	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st												
P/N	Parts	Description		Melting Practice			Austenized			Quenched		Temper(1)			Temper(2)								
		Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium					
	BODY	22E104713	RC-11-19	AISI 4130 75K,Per ASTM A29	1	AP042034	Forging	860	5.0H	WATER	26	37	685	5.0H	AIR	/	/	/					
	BONNET	32109332E	RC-10-57	AISI 4130 75K,Per ASTM A29	1	AP042041	Forging	865	4.0H	WATER	27	38	700	6.0H	AIR	/	/	/					
	STEM	YX2206-1508	HY221003-3	PH17-4 105K,Per ASTM A564/564M	1	AP042096	Forging	1030	3.5H	WATER	25	28	630	5.2H	AIR	630	5.0H	AIR					
	BALANCE STEM	YX2206-1508	HY221003-3	PH17-4 105K,Per ASTM A564/564M	1	AP042071	Forging	1030	3.5H	WATER	25	28	630	5.2H	AIR	630	5.0H	AIR					
	GATE	121V-1193	HC2209019-01	AISI 410 75K,Per ASTM A276/276M	1	AP042159	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR					
	BODY BUSHING	121V-1193	HC2209019-01	AISI 410 75K,Per ASTM A276/276M	2	AP042115 AP042131	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR					
	TAIL BONNET	22106193C	RC-10-57	AISI 4130 75K,Per ASTM A29	1	AP042017	Forging	865	4.0H	WATER	27	38	700	6.0H	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)	Elongati on (%)	ROA (%)	Impact(-46°C) Impact direction (Transverse)	Hardness	Equipment Type	
22E104713	RC-11-19	0.32	0.68	0.31	0.010	0.002	1.04	0.28	0.22	0.015	/	/	0.02	/	4"x4"x8"	QTC	681	540	45.0	47.0	65/58/47	222HBW	JBW-300B/WDW-300
32109332E	RC-10-57	0.30	0.56	0.29	0.012	0.003	1.04	0.01	0.21	0.006	/	/	0.02	/	4"x4"x8"	QTC	685	542	45.0	47.0	67/59/48	222HBW	JBW-300B/WDW-300
YX2206-1508	HY221003-3	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	0.231	/	ø 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/WDW-300	
YX2206-1508	HY221003-3	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	0.231	/	ø 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/WDW-300	
121V-1193	HC2209019-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	100x100x200	QTC	700	590	23.0	67.0	/	224HBW	JBW-300B/WDW-300	
121V-1193	HC2209019-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	100x100x200	QTC	700	590	23.0	67.0	/	224HBW	JBW-300B/WDW-300	
22106193C	RC-10-57	0.31	0.57	0.27	0.010	0.005	1.06	0.23	0.24	0.01	/	/	0.03	/	4"x4"x8"	QTC	681	548	43.0	46.0	65/56/44	218HBW	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



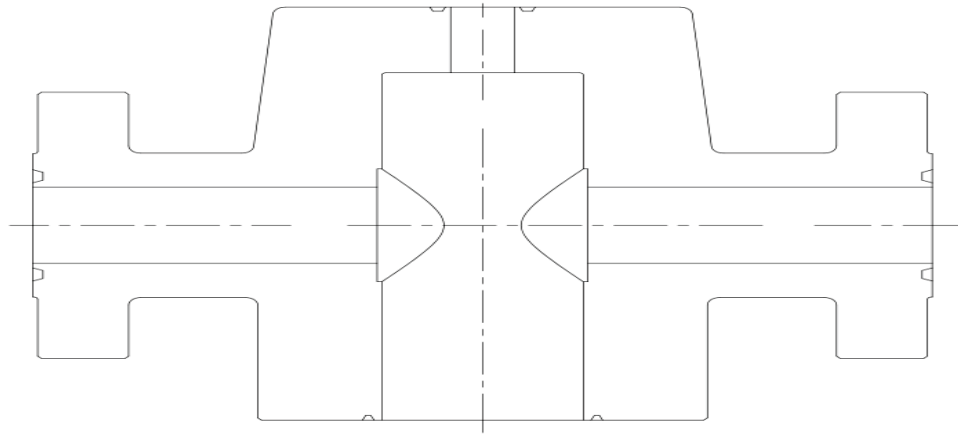
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1126-004
Part No.:	B04-210	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	AP042034	RC-11-19	217HBW/221HBW 226HBW/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			



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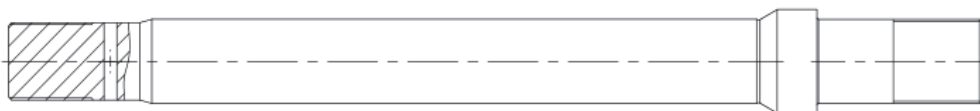
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[illegible]

Sketch:



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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

A technical drawing of a rectangular object, possibly a cross-section of a mechanical part. It features a central horizontal bar and a vertical line passing through the center. The drawing is composed of black outlines on a white background. The central bar is a light gray rectangle. The main body is a larger rectangle with a central vertical line. The top and bottom edges of the main body are slightly irregular, suggesting a specific manufacturing process or material. The central bar is positioned in the middle of the main body. The vertical line is also in the center. The overall shape is symmetrical about the central vertical line.

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



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[illegible]

A technical drawing of a rectangular object, possibly a cross-section of a mechanical part. It features a central horizontal bar and a vertical line running through the middle. The drawing is composed of simple black lines on a white background.

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:		1369		Date:	2022.11		
Drawing #:	PFF105/103A L-00	Specification:	API Spec 6A 21st /ASTM E18		API Monogram:		6A-2074		Report #:	HP-1127-002
Part No.:	B04-351	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	AP042071	HY221003-3	30HRC							
Sketch:										
Method Used:										
Acceptable Hardness:		27HRC-33HRC			Approved By:			Examined By:		
Judgments:		[V] Conforms			Xin zheng			Zhengguo Yao		
		[] Does Not Conform								



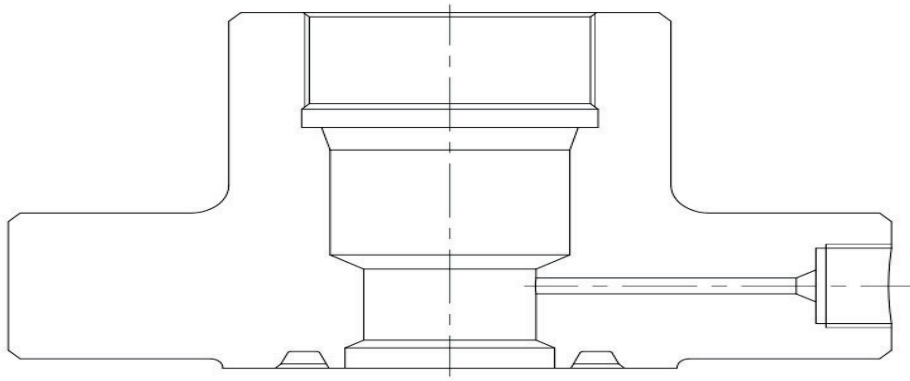
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:			
Drawing #:		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	AP042017	RC-10-57	217HBW/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		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1115-003	
Part No.:	B04-210	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	AP042034	RC-11-19	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1111-00 4
Part No.:	B04-355	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	AP042041	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP042096	HY221003-3	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1103-004
Part No.:	B04-351	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	AP042071	HY221003-3	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1115-00 4
Part No.:	B04-349	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	AP042017	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1126-003	
Part No.:	B04-210	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/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	AP042034	RC-11-19	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:		2022.11		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.12	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1202-001	
Part No.:	B04-355	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/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	AP042041	RC-10-57	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		



LIQUID PENETRATE EXAMINATION

20



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2210-Q68
Part No.:	B04-211	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:		$\geq 1000\text{Uw/cm}^2$	
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	AP042159	HC2209019-01	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:	2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2210-H68	
Part No.:	B04-211	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	AP042159	HC2209019-01	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:		2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	NCS-2210-Q69	
Part No.:	B04-344	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/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	AP042115	HC2209019-01	Acceptable						
2	AP042131	HC2209019-01	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:		2022.10		



LIQUID PENETRATE EXAMINATION

24



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ASTM E165		API Monogram:	6A-2074	Report #:	PTP-1125-001	
Part No.:	B04-351	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	AP042071	HY221003-3	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:	2022.11			

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1129-001	
Part No.:	B04-349	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/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	AP042017	RC-10-57	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:		2022.11		



安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:	1369		Date:	2022.12		
Drawing #:	PFF105/103A L-00	Specification:	API6A-21st	API Monogram:	6A-2074	Report #:	AP042F007		
Part No.:	B04-210	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	AP042034	RC-11-19	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

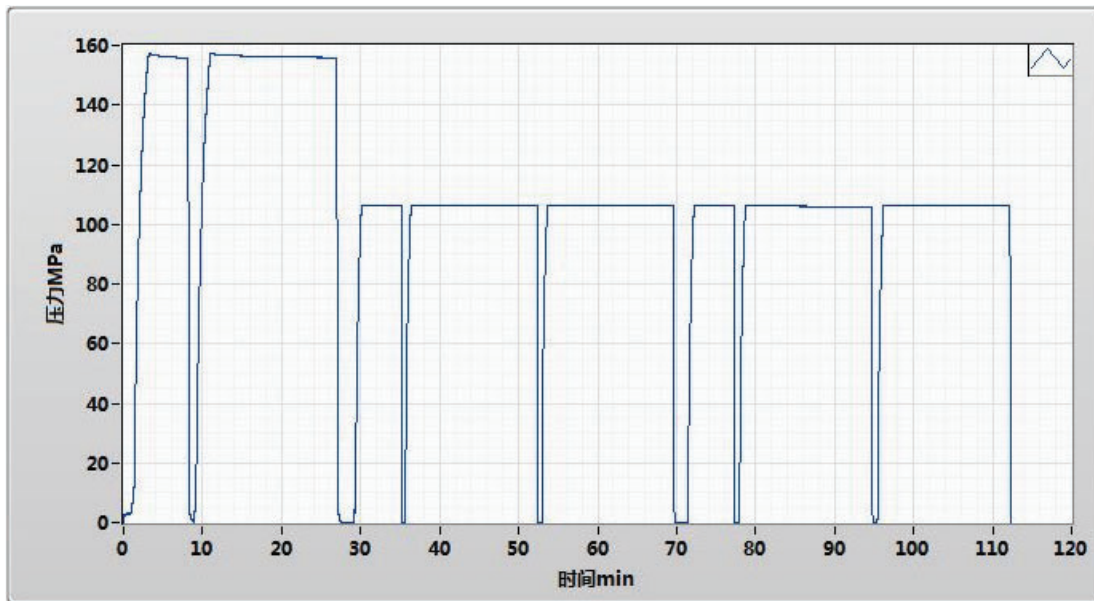
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Manual Gate Valve	AP042F007	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	156.65	155.73	4.0	0.92
2	156.93	155.91	15.0	1.02
3	106.30	106.17	4.0	0.12
4	106.35	106.15	15.0	0.20
5	106.37	106.19	15.0	0.18
6	106.29	106.08	4.0	0.21
7	106.26	105.92	15.0	0.34
8	106.32	106.06	15.0	0.27



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.12.09



REPORT INDEX

Purchase Order: 1369

Quantity: 1EA

Shipment No.: Crate# AP042F008

Shipment Date: December,2022

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 # 1369, 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 #: 1369

SERIAL NO.: AP042F008

PART NO.: PFF105/103AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: December, 2022

Customer: _____

P.O. Number: 1369



安澜科技（江苏）股份有限公司

No.: AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Date:December,2022

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications													
	1369	MANUAL GATE VALVE	PFF105/103AL-00	AP042F008	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st													
P/N	Description		Melting Practice			Austenized			Quenched			Temper(1)			Temper(2)									
	Parts	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium						
	BODY	22E104713	RC-11-19	AISI 4130 75K,Per ASTM A29	1	AP042040	Forging	860	5.0H	WATER	26	37	685	5.0H	AIR	/	/	/						
	BONNET	32109332E	RC-10-57	AISI 4130 75K,Per ASTM A29	1	AP042051	Forging	865	4.0H	WATER	27	38	700	6.0H	AIR	/	/	/						
	STEM	YX2206-1508	HY221003-3	PH17-4 105K,Per ASTM A564/564M	1	AP042093	Forging	1030	3.5H	WATER	25	28	630	5.2H	AIR	630	5.0H	AIR						
	BALANCE STEM	YX2206-1508	HY221003-3	PH17-4 105K,Per ASTM A564/564M	1	AP042074	Forging	1030	3.5H	WATER	25	28	630	5.2H	AIR	630	5.0H	AIR						
	GATE	121V-1193	HC2209019-01	AISI 410 75K,Per ASTM A276/276M	1	AP042150	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR						
	BODY BUSHING	121V-1193	HC2209019-01	AISI 410 75K,Per ASTM A276/276M	2	AP033110 AP042140	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR						
	TAIL BONNET	22106193C	RC-10-57	AISI 4130 75K,Per ASTM A29	1	AP042014	Forging	865	4.0H	WATER	27	38	700	6.0H	AIR	/	/	/						
	Melt No.	H.T. No.	Chemical Analysis (wt, %)											Physical Properties					Equipment Type					
22E104713	RC-11-19	0.32	0.68	0.31	0.010	0.002	1.04	0.28	0.22	0.015	/	/	0.02	/	/	4"x4"x8"	QTC	681	540	45.0	47.0	65/58/47	222HBW	JBW-300B/WDW-300
32109332E	RC-10-57	0.30	0.56	0.29	0.012	0.003	1.04	0.01	0.21	0.006	/	/	0.02	/	/	4"x4"x8"	QTC	685	542	45.0	47.0	67/59/48	222HBW	JBW-300B/WDW-300
YX2206-1508	HY221003-3	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	/	3.63	0.231	/	ø 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/WDW-300
YX2206-1508	HY221003-3	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	/	3.63	0.231	/	ø 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/WDW-300
121V-1193	HC2209019-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	/	100x100x200	QTC	700	590	23.0	67.0	/	224HBW	JBW-300B/WDW-300
121V-1193	HC2209019-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	/	100x100x200	QTC	700	590	23.0	67.0	/	224HBW	JBW-300B/WDW-300
22106193C	RC-10-57	0.31	0.57	0.27	0.010	0.005	1.06	0.23	0.24	0.01	/	/	0.03	/	/	4"x4"x8"	QTC	681	548	43.0	46.0	65/56/44	218HBW	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



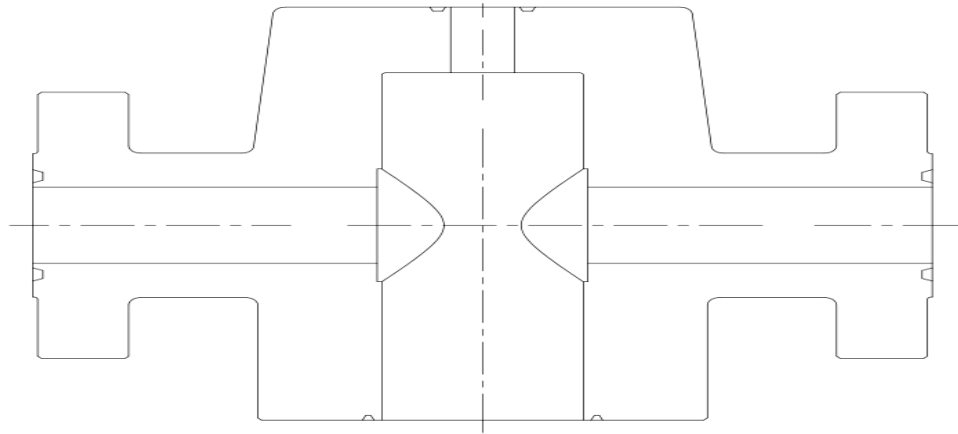
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1126-004
Part No.:	B04-210	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	AP042040	RC-11-19	222HBW/225HBW 223HBW/221HBW				

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		



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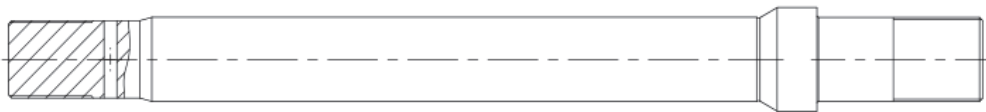
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HP-1127-003	
Part No.:	B04-352	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	AP042093	HY221003-3	30HRC					

Sketch:



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



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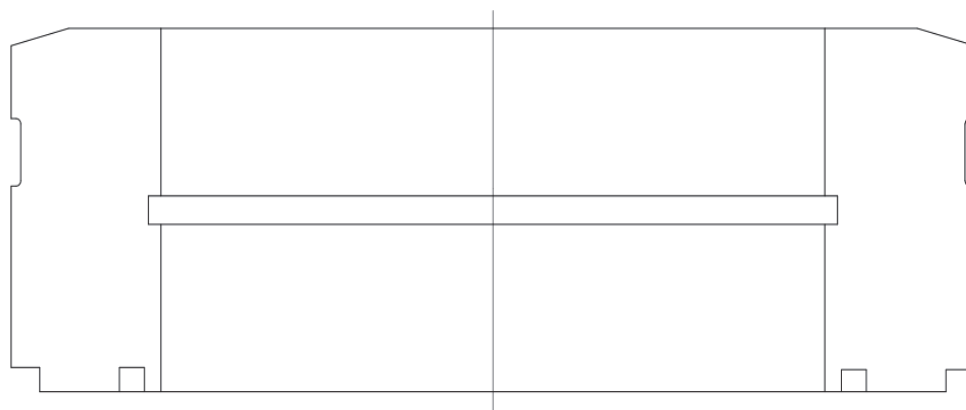
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HARDNESS TEST REPORT

Sketch:

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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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:		1369		Date:	2022.11	
Drawing #:	PFF105/103A L-00	Specification:	API Spec 6A 21st /ASTM E18		API Monogram:	6A-2074		Report #:	HP-1127-002
Part No.:	B04-351	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	AP042074	HY221003-3	30HRC						
Sketch:									
Method Used:									
Acceptable Hardness:		27HRC-33HRC		Approved By:			Examined By:		
Judgments:		[V] Conforms		Xin zheng			Zhengguo Yao		
		[] Does Not Conform							



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安澜科技（江苏）股份有限公司
ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388		API Monogram:	6A-2074	Report #:	UTP-1115-003	
Part No.:	B04-210	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	AP042040	RC-11-19	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+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#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1111-00 4
Part No.:	B04-355	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	AP042051	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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	AP042093	HY221003-3	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1103-004
Part No.:	B04-351	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	AP042074	HY221003-3	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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 #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1115-00 4	
Part No.:	B04-349	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	AP042014	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1126-003	
Part No.:	B04-210	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/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	AP042040	RC-11-19	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:		2022.11	



MAGNETIC PARTICLE INSPECTION REPORT

Inspection Coverage:

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTP-1126-001
Part No.:	B04-352	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	AP042093	HY221003-3	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:	2022.11		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2210-Q68	
Part No.:	B04-211	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	AP042150	HC2209019-01	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:	2022.10			



LIQUID PENETRATE EXAMINATION

22



MAGNETIC PARTICLE INSPECTION REPORT

23



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2210-H69	
Part No.:	B04-344	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	AP033110	HC2209019-01	Acceptable					
2	AP042140	HC2209019-01	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:		2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ASTM E165		API Monogram:	6A-2074	Report #:	PTP-1125-001	
Part No.:	B04-351	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	AP042074	HY221003-3	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:	2022.11			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1129-001	
Part No.:	B04-349	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/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	AP042014	RC-10-57	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:		2022.11		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:		1369		Date:		2022.12					
Drawing #:		PFF105/103A L-00		Specification:		API6A-21st		API Monogram:		6A-2074		Report #:		AP042F008	
Part No.:		B04-210		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	AP042040	RC-11-19	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													



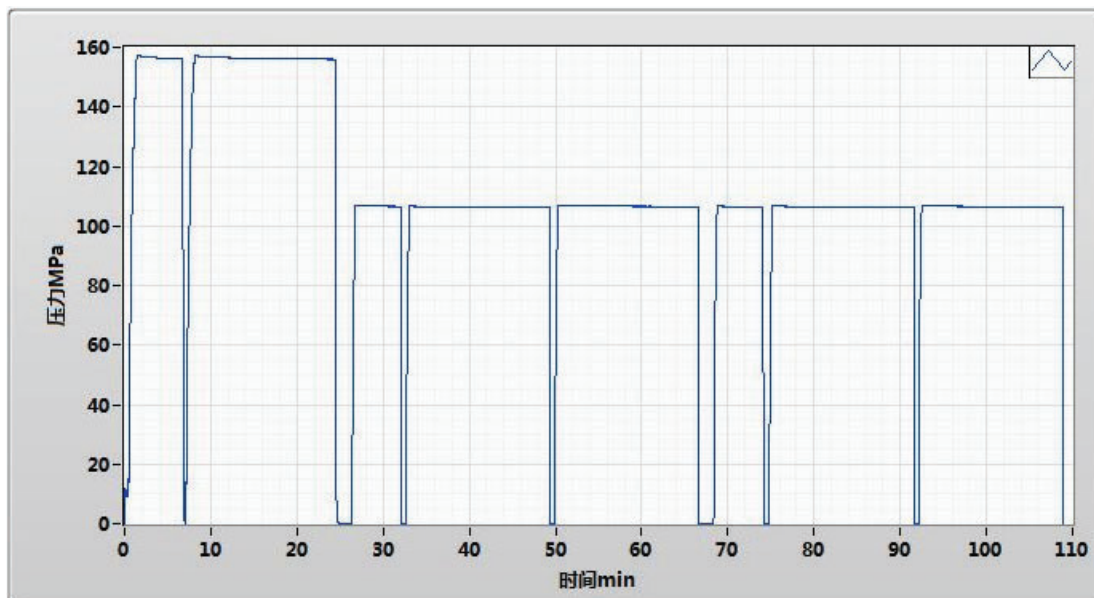
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Manual Gate Valve	AP042F008	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	156.74	156.01	4.0	0.72
2	156.84	155.96	15.0	0.87
3	106.66	106.56	4.0	0.11
4	106.53	106.31	15.0	0.22
5	106.71	106.52	15.0	0.20
6	106.52	106.30	4.0	0.22
7	106.59	106.13	15.0	0.46
8	106.68	106.38	15.0	0.30



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.12.06



REPORT INDEX

Purchase Order: 1369

Quantity: 1EA

Shipment No.: Crate# AP042F011

Shipment Date: December,2022

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 # 1369, 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 #: 1369

SERIAL NO.: AP042F011

PART NO.: PFF105/103AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: December, 2022

Customer: _____

P.O. Number: 1369



安澜科技（江苏）股份有限公司

No.: AV00012

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Date:December,2022

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications												
	1369	MANUAL GATE VALVE	PFF105/103AL-00	AP042P011	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st												
P/N	Parts	Description		Melting Practice			Austenized			Quenched		Temper(1)			Temper(2)								
		Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)						
	BODY	22E104713	RC-11-19	AISI 4130 75K,Per ASTM A29	1	AP042025	Forging	860	5.0H	WATER	26	37	685	5.0H	AIR	/	/						
	BONNET	32109332E	RC-10-57	AISI 4130 75K,Per ASTM A29	1	AP042059	Forging	865	4.0H	WATER	27	38	700	6.0H	AIR	/	/						
	STEM	YX2206-1508	HY221003-3	PH17-4 105K,Per ASTM A564/564M	1	AP042083	Forging	1030	3.5H	WATER	25	28	630	5.2H	AIR	630	5.0H						
	BALANCE STEM	YX2206-1508	HY221003-3	PH17-4 105K,Per ASTM A564/564M	1	AP042069	Forging	1030	3.5H	WATER	25	28	630	5.2H	AIR	630	5.0H						
	GATE	121V-1193	HC2209019-01	AISI 410 75K,Per ASTM A276/276M	1	AP042158	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H						
	BODY BUSHING	121V-1193	HC2209019-01	AISI 410 75K,Per ASTM A276/276M	2	AP042129 AP033134	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H						
	TAIL BONNET	22106193C	RC-10-57	AISI 4130 75K,Per ASTM A29	1	AP042018	Forging	865	4.0H	WATER	27	38	700	6.0H	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)	Elongati on (%)	ROA (%)	Impact(-46°C) Impact direction (Transverse)	Hardness	Equipment Type	
22E104713	RC-11-19	0.32	0.68	0.31	0.010	0.002	1.04	0.28	0.22	0.015	/	/	0.02	/	4"x4"x8"	QTC	681	540	45.0	47.0	65/58/47	222HBW	JBW-300B/WDW-300
32109332E	RC-10-57	0.30	0.56	0.29	0.012	0.003	1.04	0.01	0.21	0.006	/	/	0.02	/	4"x4"x8"	QTC	685	542	45.0	47.0	67/59/48	222HBW	JBW-300B/WDW-300
YX2206-1508	HY221003-3	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	0.231	/	φ 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/WDW-300	
YX2206-1508	HY221003-3	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	0.231	/	φ 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/WDW-300	
121V-1193	HC2209019-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	100x100x200	QTC	700	590	23.0	67.0	/	224HBW	JBW-300B/WDW-300	
121V-1193	HC2209019-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	100x100x200	QTC	700	590	23.0	67.0	/	224HBW	JBW-300B/WDW-300	
22106193C	RC-10-57	0.31	0.57	0.27	0.010	0.005	1.06	0.23	0.24	0.01	/	/	0.03	/	4"x4"x8"	QTC	681	548	43.0	46.0	65/56/44	218HBW	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



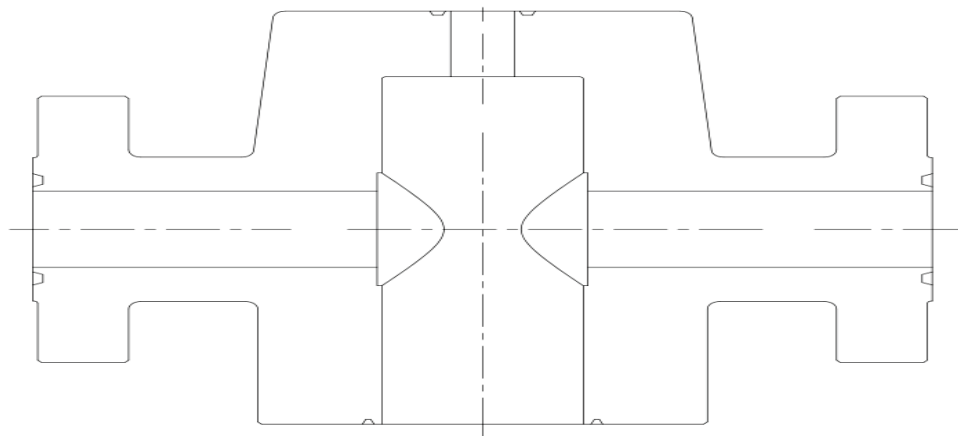
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1126-00 4
Part No.:	B04-210	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	AP042025	RC-11-19	222HBW/207HBW 219HBW/221HBW				

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			



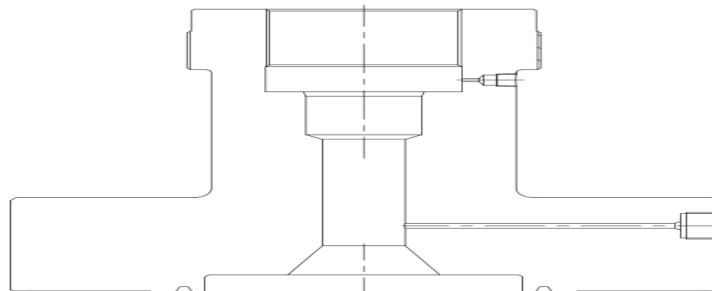
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1202-001
Part No.:	B04-355	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	AP042059	RC-10-57	214HBW/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			



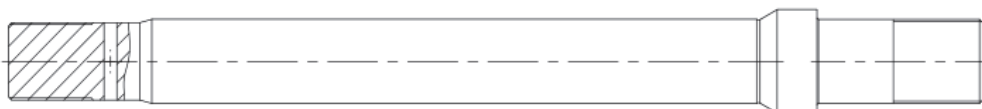
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM E18	API Monogram:	6A-2074	Report #:	HP-1127-003	
Part No.:	B04-352	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	AP042083	HY221003-3	29HRC					

Sketch:



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



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[illegible]



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[illegible]

Technical drawing of a mechanical part, likely a cross-section. The part is rectangular with rounded ends. It features a central circular hole. On the right side, there is a threaded section, possibly a bolt or a plug, indicated by hatching. The drawing includes a vertical centerline and a horizontal centerline.

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

A technical drawing of a rectangular object, possibly a cross-section of a mechanical part. The drawing is symmetrical about a central vertical line. It features a central horizontal bar or slot. The top and bottom edges are slightly irregular, suggesting a specific manufacturing process or material. The drawing is composed of black lines on a white background.

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible][illegible]

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Technical drawing of a mechanical assembly, showing a cross-section of a cylindrical component with a central shaft and a flange. The drawing includes a vertical centerline and a horizontal section line.

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#:	1369		Date:	2022.11	
Drawing #:	PFF105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074		Report #:	UTP-1115-003	
Part No.:	B04-210	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	AP042025	RC-11-19	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1111-00 4
Part No.:	B04-355	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	AP042059	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP042083	HY221003-3	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1103-004
Part No.:	B04-351	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	AP042069	HY221003-3	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1115-00 4	
Part No.:	B04-349	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	AP042018	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	MTP-1126-003	
Part No.:	B04-210	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/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	AP042025	RC-11-19	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:		2022.11		



MAGNETIC PARTICLE INSPECTION REPORT

Inspection Coverage:

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



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[illegible]

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:	2022.11



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	NCS-2210-Q68
Part No.:	B04-211	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	AP042158	HC2209019-01	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:		2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2210-H68	
Part No.:	B04-211	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	AP042158	HC2209019-01	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:		2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	NCS-2210-Q69	
Part No.:	B04-344	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/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	AP042129	HC2209019-01	Acceptable						
2	AP033134	HC2209019-01	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:		2022.10		



LIQUID PENETRATE EXAMINATION

24



LIQUID PENETRATE EXAMINATION

25



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1129-001	
Part No.:	B04-349	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/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	AP042018	RC-10-57	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:		2022.11		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:		1369		Date:		2022.12					
Drawing #:		PFF105/103A L-00		Specification:		API6A-21st		API Monogram:		6A-2074		Report #:		AP042F011	
Part No.:		B04-210		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	AP042025	RC-11-19	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													



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

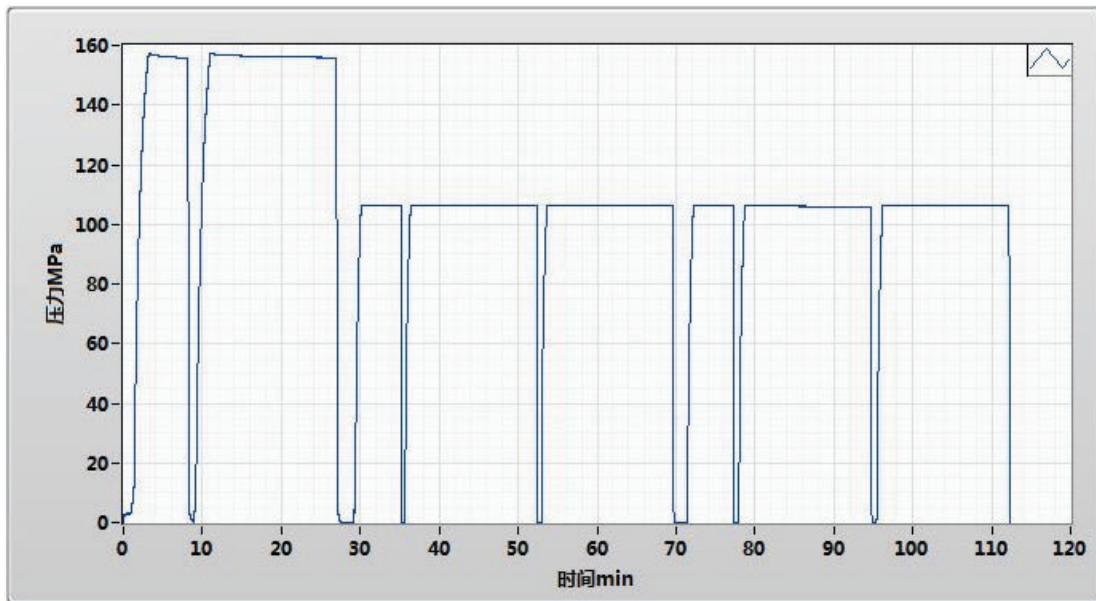
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Manual Gate Valve	AP042F011	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	156.65	155.73	4.0	0.92
2	156.93	155.91	15.0	1.02
3	106.30	106.17	4.0	0.12
4	106.35	106.15	15.0	0.20
5	106.37	106.19	15.0	0.18
6	106.29	106.08	4.0	0.21
7	106.26	105.92	15.0	0.34
8	106.32	106.06	15.0	0.27



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.12.09



REPORT INDEX

Purchase Order: 1369

Quantity: 1EA

Shipment No.: Crate# AP042F018

Shipment Date: December,2022

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



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CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1369, 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 #: 1369

SERIAL NO.: AP042F018

PART NO.: PFF105/103AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: December, 2022

Customer: _____

P.O. Number: 1369



安澜科技（江苏）股份有限公司

No.: AV00012

Date:December,2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications												
	1369	MANUAL GATE VALVE	PFF105/103AL-00	AP042F018	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st												
P/N	Description		Melting Practice			Austenized		Quenched		Heat Treatment			Temper(1)		Temper(2)								
	Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)							
	22E104713	RC-11-19	AISI 4130 75K,Per ASTM A29	1	AP042030	Forging	860	5.0H	WATER	26	37	685	5.0H	AIR	/	/							
	32109332E	RC-10-57	AISI 4130 75K,Per ASTM A29	1	AP042055	Forging	865	4.0H	WATER	27	38	700	6.0H	AIR	/	/							
	YX2206-1508	HY221003-3	PH17-4 105K,Per ASTM A564/564M	1	AP042087	Forging	1030	3.5H	WATER	25	28	630	5.2H	AIR	630	5.0H							
	YX2206-1508	HY221003-3	PH17-4 105K,Per ASTM A564/564M	1	AP042080	Forging	1030	3.5H	WATER	25	28	630	5.2H	AIR	630	5.0H							
	121V-1193	HC2209019-01	AISI 410 75K,Per ASTM A276/276M	1	AP042154	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H							
	121V-1193	HC2209019-01	AISI 410 75K,Per ASTM A276/276M	2	AP033122 AP042107	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H							
	22106193C	RC-10-57	AISI 4130 75K,Per ASTM A29	1	AP042005	Forging	865	4.0H	WATER	27	38	700	6.0H	AIR	/	/							
	Melt No.	H.T. No.	Chemical Analysis (wt, %)											Physical Properties				Equipment Type					
C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongati on (%)	ROA (%)	Impact(-46°C) Impact direction (Transverse)	Hardness	Equipment Type	
22E104713	RC-11-19	0.32	0.68	0.31	0.010	0.002	1.04	0.28	0.22	0.015	/	/	0.02	/	4"x4"x8"	QTC	681	540	45.0	47.0	65/58/47	222HBW	JBW-300B/WDW-300
32109332E	RC-10-57	0.30	0.56	0.29	0.012	0.003	1.04	0.01	0.21	0.006	/	/	0.02	/	4"x4"x8"	QTC	685	542	45.0	47.0	67/59/48	222HBW	JBW-300B/WDW-300
YX2206-1508	HY221003-3	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	0.231	/	φ 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/WDW-300	
YX2206-1508	HY221003-3	0.025	0.52	0.35	0.028	0.001	15.75	4.12	/	/	/	0.231	/	φ 80x200	QTC	1073	949	20.7	61.3	43/47/38	31HRC	JBW-300B/WDW-300	
121V-1193	HC2209019-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	100x100x200	QTC	700	590	23.0	67.0	/	224HBW	JBW-300B/WDW-300	
121V-1193	HC2209019-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	100x100x200	QTC	700	590	23.0	67.0	/	224HBW	JBW-300B/WDW-300	
22106193C	RC-10-57	0.31	0.57	0.27	0.010	0.005	1.06	0.23	0.24	0.01	/	/	0.03	/	4"x4"x8"	QTC	681	548	43.0	46.0	65/56/44	218HBW	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



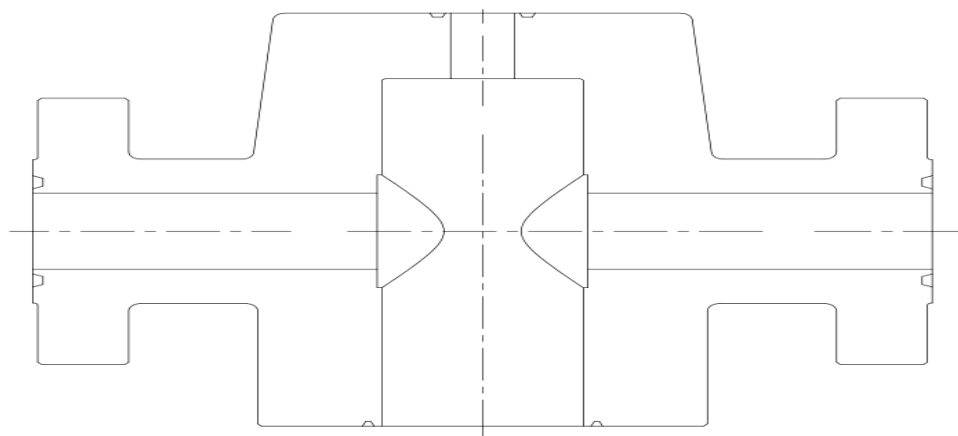
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1126-00 4
Part No.:	B04-210	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	AP042030	RC-11-19	222HBW/224HBW 226HBW/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			



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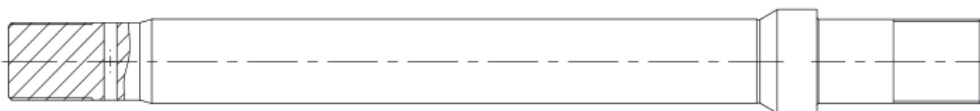
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[illegible]

Sketch:



Method Used:

Acceptable Hardness:

27HRC-33HRC

Approved By:

Examined By:

Judgments:

[V] Conforms

[] Does Not Conform

Xin zheng

Zhengguo Yao



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



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[illegible]

The diagram shows a rectangular frame with a central horizontal bar. A vertical line bisects the entire structure. The left side of the frame has a complex, stepped profile. The central bar is shaded light gray. The entire structure is outlined in black.

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



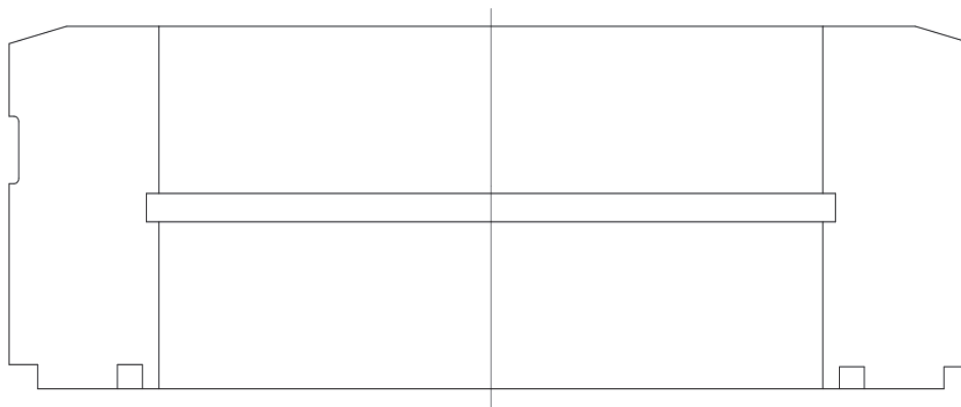
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	1369		Date:	December,2022
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20221021-05
Part No.:	B04-344	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	AP033122	HC2209019-01	1197HV				
2	AP042107	HC2209019-01	1171HV				

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		



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[illegible]

Technical drawing of a shaft assembly. The shaft is shown in a side view with a keyway. A pulley is mounted on the left end, and a gear is mounted on the right end. The drawing includes a dashed line representing the center of the shaft.

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP042005	RC-10-57	211HBW/213HBW				

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#:	1369		Date:	2022.11	
Drawing #:	PFF105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1115-003		
Part No.:	B04-210	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	AP042030	RC-11-19	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II			



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1111-00 4
Part No.:	B04-355	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	AP042055	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	

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	AP042087	HY221003-3	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1103-004
Part No.:	B04-351	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	AP042080	HY221003-3	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident. #:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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 #:	PFF105/103AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1115-00 4
Part No.:	B04-349	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	AP042005	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	MTP-1126-003	
Part No.:	B04-210	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/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	AP042030	RC-11-19	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:		2022.11		

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1369		Date:	2022.12	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	MTP-1202-001
Part No.:	B04-355	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/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	AP042055	RC-10-57	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.11
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	PTP-1126-001
Part No.:	B04-352	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	AP042087	HY221003-3	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:	2022.11		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2210-Q68
Part No.:	B04-211	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:		$\geq 1000\text{Uw/cm}^2$	
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	AP042154	HC2209019-01	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:	2022.10		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2210-H68	
Part No.:	B04-211	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	AP042154	HC2209019-01	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:		2022.10		



MAGNETIC PARTICLE INSPECTION REPORT

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1369		Date:	2022.10	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2210-H69	
Part No.:	B04-344	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	AP033122	HC2209019-01	Acceptable					
2	AP042107	HC2209019-01	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:	2022.10			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	QJ/JJ07.01.03.02/ASTM E165		API Monogram:	6A-2074	Report #:	PTP-1125-001	
Part No.:	B04-351	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	AP042080	HY221003-3	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:		2022.11		

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1369		Date:	2022.11	
Drawing #:	PFF105/103AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1129-001	
Part No.:	B04-349	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/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	AP042005	RC-10-57	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:		2022.11		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:		1369		Date:		2022.12					
Drawing #:		PFF105/103A L-00		Specification:		API6A-21st		API Monogram:		6A-2074		Report #:		AP042F018	
Part No.:		B04-210		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	AP042030	RC-11-19	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													



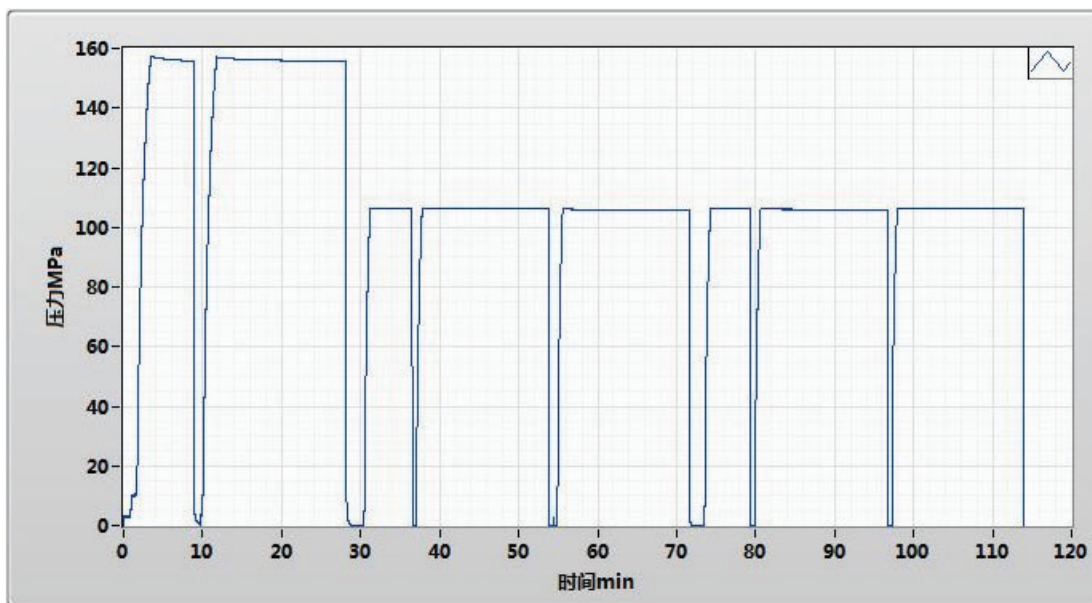
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Manual Gate Valve	AP042F018	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	156.59	155.72	4.0	0.87
2	156.66	155.66	15.0	1.00
3	106.31	106.22	4.0	0.09
4	106.26	106.07	15.0	0.19
5	106.05	105.65	15.0	0.40
6	106.28	106.09	4.0	0.19
7	106.13	105.85	15.0	0.27
8	106.37	106.17	15.0	0.21



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.12.08



REPORT INDEX

Purchase Order: 1378

Quantity: 1EA

Shipment No.: Crate# AP046F001

Shipment Date: December,2022

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 # 1378, 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 #: 1378

SERIAL NO.: AP046F001

PART NO.: PFFY70/180AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: December, 2022

Customer: _____

P.O. Number: 1378



安澜科技（江苏）股份有限公司

No.: AV00012

Date:December,2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Customer		PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications											
		1378	HYDRAULIC GATE VALVE	PFFY70/180AL-00	AP046F001	1	7-1/16"	10000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st											
P/N	Parts	Description		Heat Treatment																			
		Melt No.	H.T. No.	Material Spec Standards	Q t y	Melting Practice			Austenized		Quenched		Temper(1)			Temper(2)							
						Serial No.	Finished	Time (min)	Temp (°C)	Time (min)	Temp (°C)	Start Temp	Medium	Temp (°C)	Time (min)	Temp (°C)	Time (min)	Temp (°C)					
		BODY	TX22-05899	RC-11-44	1	AP046001	Forging	860	4.0H	860	4.0H	27	34	680	6.0H	AIR	/	/	/				
		BONNET	TX22-05899	RC-10-57	1	AP046015	Forging	865	4.0H	865	4.0H	27	38	700	6.0H	AIR	/	/	/				
		TAIL BONNET	TX22-05899	RC-10-57	1	AP046022	Forging	865	4.0H	865	4.0H	27	38	700	6.0H	AIR	/	/	/				
		STEM	YX2208-2019	HY221113-5	1	AP046049	Forging	1030	3.5H	1030	3.5H	19	22	630	5.0H	AIR	630	5.2H	AIR				
BALANCE STEM	YX2208-2234	HY221113-5	1	AP046037	Forging	1030	3.5H	1030	3.5H	19	22	630	5.0H	AIR	630	5.2H	AIR						
GATE	121V-1193	HC2211012-01	1	AP046091	Forging	960	3.0H	960	3.0H	39	51	720	6.0H	AIR	680	6.0H	AIR						
BODY BUSHING	121V-1193	HC2211012-01	2	AP046108 AP046116	Forging	960	3.0H	960	3.0H	39	51	720	6.0H	AIR	680	6.0H	AIR						
Chemical Analysis (wt. %)																							
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongatio n (%)	ROA (%)	Impact direction (Transverse)	Hardness	Equipment Type
TX22-05899	RC-11-44	0.30	0.52	0.24	0.012	0.003	0.97	0.02	0.187	0.005	/	/	0.02	/	/	QTC	621	503	22.0	40.0	60/48/47	218HBW	JBW-3008/WDW-300
TX22-05899	RC-10-57	0.30	0.52	0.24	0.012	0.003	0.97	0.02	0.187	0.005	/	/	0.02	/	/	QTC	623	509	29.0	41.0	58/47/45	221HBW	JBW-3008/WDW-300
TX22-05899	RC-10-57	0.30	0.52	0.24	0.012	0.003	0.97	0.02	0.187	0.005	/	/	0.02	/	/	QTC	623	509	29.0	41.0	58/47/45	221HBW	JBW-3008/WDW-300
YX2208-2019	HY221113-5	0.026	0.47	0.40	0.027	0.002	15.60	4.15	/	/	/	/	3.64	0.244	/	QTC	1051	944	21.3	57.6	40/35/42	32HRC	JBW-3008/WDW-300
YX2208-2234	HY221113-5	0.022	0.50	0.44	0.031	0.003	15.72	4.15	/	/	/	/	3.60	0.243	/	QTC	1067	940	19.7	58.5	44/37/49	29HRC	JBW-3008/WDW-300
121V-1193	HC2211012-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	/	QTC	690	580	24.0	66.0	/	224HBW	JBW-3008/WDW-300
121V-1193	HC2211012-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	/	QTC	690	580	24.0	66.0	/	224HBW	JBW-3008/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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	174HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	174HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1206-001
Part No.:	X-293587-01	Material:	AISI 4130 60K			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	AP046022	RC-10-57	220HBW/221HBW				

Sketch:

The sketch shows a mechanical component identified as a tail bonnet. It features a central vertical cylindrical body mounted on a rectangular base plate through a circular flange. A long horizontal bolt or pin passes through the center of the vertical body from left to right. The entire assembly sits on four small support feet at the corners of the base plate. Vertical dashed lines indicate symmetry about the central axis.

Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	174HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhenggao Yao
	[] Does Not Conform		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Technical drawing of a shaft. The left end features a square keyway. The shaft has a long central section and a hexagonal end on the right. A dashed line indicates the center of the shaft.

Zhengguo Yao



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



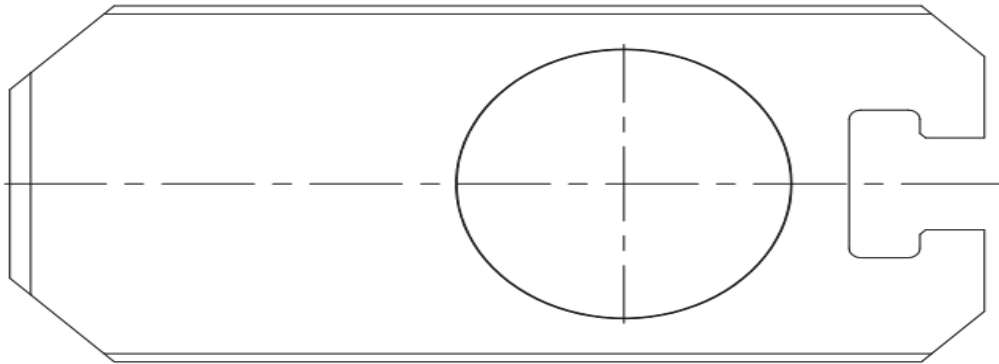
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20221130-07
Part No.:	X-111342-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"10000Psi Gate					Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP046091	HC2211012-01	1197HV				

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		



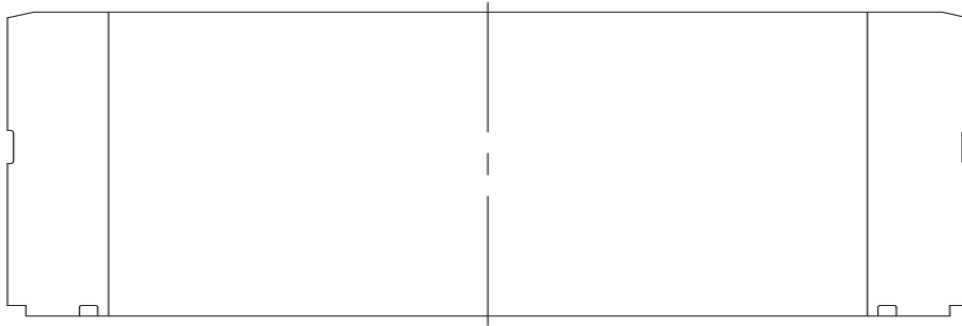
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20221130-06
Part No.:	X-111188-01	Material:	AISI 410 75K			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	AP046108	HC2211012-01	222HBW				
2	AP046116	HC2211012-01	219HBW				

Sketch:



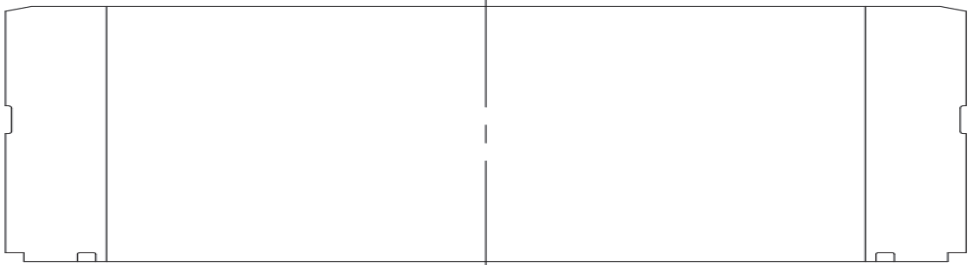
Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



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 #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20221130-08	
Part No.:	X-111188-01	Material:	AISI 410 75K			Coating:	WC	
Description:	7-1/16"10000Psi Body bushing					Quantity:	2	
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness	
1	AP046108	HC2211012-01	1171HV					
2	AP046116	HC2211012-01	1171HV					
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							



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP046037	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

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180A L-00	Specification:	API Spec 6A 21st /ASTM A388		API Monogram:	6A-2074	Report #:	UTP-1123-001	
Part No.:	X-293586-01	Material:	AISI 4130 60K				Coating:	/	
Description:	7-1/16"10000Psi Body						Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result		
1	AP046001	RC-11-44	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C		Couplant:	OIL					
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+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:	2
Drawing #:		Specification:		API Monogram:		Report #:	
Part No.:		Material:				Coating:	
Description:	7-1/16"10000Psi Bonnet					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP046015	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM A388		API Monogram:	6A-2074	Report #:	UTP-1120-003	
Part No.:	X-293587-01	Material:	AISI 4130 60K				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	AP046022	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C		Couplant:	OIL					
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1127-001
Part No.:	X-111326-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP046049	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	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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 #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1121-001		
Part No.:	X-111183-01	Material:	PH17-4 105K			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	AP046037	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 Φ 1.6 FBH Block Φ 3.2 FBH Block			Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL						
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st			Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB			Level as per UT:	II		

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	MTP-1205-002
Part No.:	X-293586-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi 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/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	AP046001	RC-11-44	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	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1206-001	
Part No.:	X-111185-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi	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/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	AP046015	RC-10-57	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		

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1205-001	
Part No.:	X-293587-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi 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/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	AP046022	RC-10-57	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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:	2022.11



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2211-Q78	
Part No.:	X-111342-01	Material:	AISI 410 75K			Coating:	/	
Description:	7-1/16"10000Psi 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	AP046091	HC2211012-01	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:	2022.11			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2211-H78	
Part No.:	X-111342-01	Material:	AISI 410 75K			Coating:	WC	
Description:	7-1/16"10000Psi 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	AP046091	HC2211012-01	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:		2022.11		



MAGNETIC PARTICLE INSPECTION REPORT

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165		API Monogram:	6A-2074	Report #:	NCS-2211-H79	
Part No.:	X-111188-01	Material:	AISI 410 75K				Coating:	WC	
Description:	7-1/16"10000Psi 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	AP046108	HC2211012-01	Acceptable						
2	AP046116	HC2211012-01	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:		2022.11		

LIQUID PENETRATE EXAMINATION

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	QJ/JJ07.01.03.02/ASTM E165	API Monogram:	6A-2074	Report #:	PTP-1202-001	
Part No.:	X-111183-01	Material:	PH17-4-105K			Coating:	/	
Description:	7-1/16"10000Psi 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	AP046037	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:			1378		Date:		December,2022			
Drawing #:		PFFY70/180A L-00	Specification:		API6A-21st	API Monogram:		6A-2074	Report #:		AP046F001		
Part No.:		X-293586-01	Material:		AISI 4130 60K				Coating:		/		
Description:		7-1/16"10000Psi							Quantity:		1		
Item		Pressure		Method				Qty		Result			
Shell		22500psi		API 6A 21st				1		OK			
Seat		10000Psi		API 6A 21st				1		OK			
Item	S/N		Heat Log No.		Result		Item	S/N		Heat Log No.		Result	
					A	B						A	B
1	AP046001		RC-11-44		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

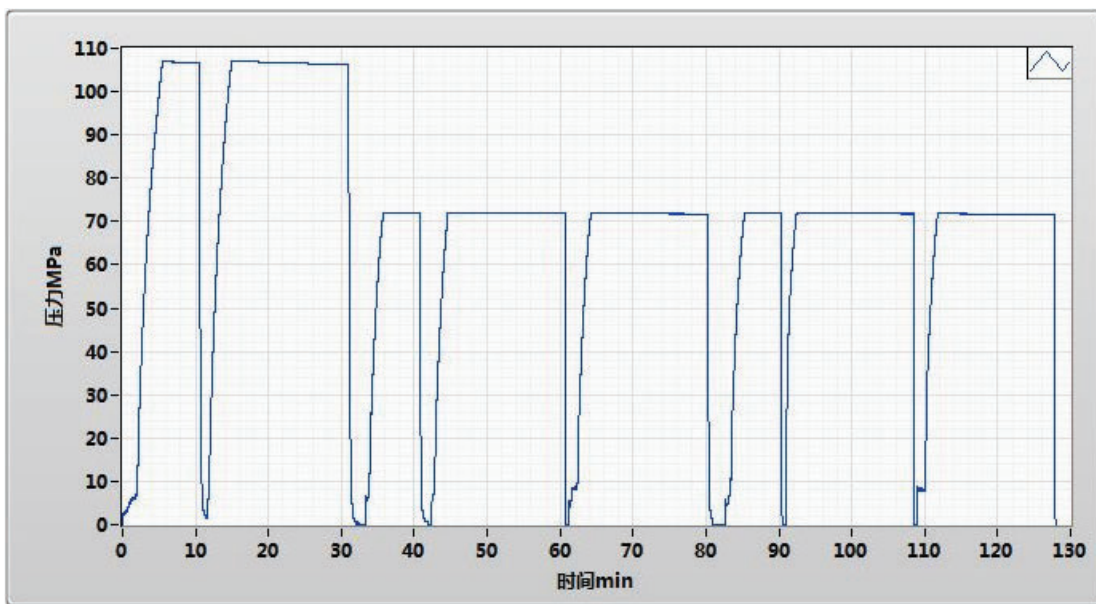
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP046F001	7-1/16" 10000Psi	API 6A 21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	106.90	106.61	4.0	0.29
2	107.04	106.38	15.0	0.66
3	71.92	71.89	4.0	0.03
4	72.04	71.92	15.0	0.12
5	71.96	71.75	15.0	0.20
6	71.98	71.92	4.0	0.07
7	71.98	71.80	15.0	0.18
8	71.88	71.62	15.0	0.25



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.12.16



REPORT INDEX

Purchase Order: 1378

Quantity: 1EA

Shipment No.: Crate# AP046F002

Shipment Date: December,2022

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
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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 # 1378, 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 #: 1378

SERIAL NO.: AP046F002

PART NO.: PFFY70/180AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: December, 2022

Customer: _____

P.O. Number: 1378



安澜科技（江苏）股份有限公司

No.: AV00012

Date:December,2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Customer		PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications											
		1378	HYDRAULIC GATE VALVE	PFFY70/180AL-00	AP046F002	1	7-1/16"	10000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st											
P/N	Parts	Description		Melting Practice			Austenized		Quenched		Temper(1)		Temper(2)										
		Melt No.	H.T. No.	Material Spec Standards	Q t y	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium								
PFFY70/180AL-00	BODY	TX22-05899	HY221117-5	AISI 4130 60K,Per ASTM A29	1	AP046006	Forging	880	5.5H	WATER	21	25	660	7.5H	AIR	/	/						
	BONNET	TX22-05899	RC-10-57	AISI 4130 60K,Per ASTM A29	1	AP046017	Forging	865	4.0H	WATER	27	38	700	6.0H	AIR	/	/						
	TAIL BONNET	TX22-05899	RC-10-57	AISI 4130 60K,Per ASTM A29	1	AP046030	Forging	865	4.0H	WATER	27	38	700	6.0H	AIR	/	/						
	STEM	YX2208-2019	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP046044	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	AP046040	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	5.2H	AIR					
	GATE	121V-1193	HC2211012-01	AISI 410 75K,Per ASTM A276/276M	1	AP046095	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR					
	BODY BUSHING	121V-1193	HC2211012-01	AISI 410 75K,Per ASTM A276/276M	2	AP046117 AP046120	Forging	960	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR					
Chemical Analysis (wt. %)																							
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongatio n (%)	ROA (%)	Impact direction (Transverse)	Hardness	Equipment Type
TX22-05899	HY221117-5	0.30	0.52	0.24	0.012	0.003	0.97	0.02	0.187	0.005	/	/	0.02	/	/	QTC	707	533	24.4	68.6	87/127/53	224HBW	JBW-300B/WDW-300
TX22-05899	RC-10-57	0.30	0.52	0.24	0.012	0.003	0.97	0.02	0.187	0.005	/	/	0.02	/	/	QTC	623	509	29.0	41.0	58/47/45	221HBW	JBW-300B/WDW-300
TX22-05899	RC-10-57	0.30	0.52	0.24	0.012	0.003	0.97	0.02	0.187	0.005	/	/	0.02	/	/	QTC	623	509	29.0	41.0	58/47/45	221HBW	JBW-300B/WDW-300
YX2208-2019	HY221113-5	0.026	0.47	0.40	0.027	0.002	15.60	4.15	/	/	/	/	3.64	0.244	/	QTC	1051	944	21.3	57.6	40/35/42	32HRC	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	/	QTC	1067	940	19.7	58.5	44/37/49	29HRC	JBW-300B/WDW-300
121V-1193	HC2211012-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	/	QTC	690	580	24.0	66.0	/	224HBW	JBW-300B/WDW-300
121V-1193	HC2211012-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	/	QTC	690	580	24.0	66.0	/	224HBW	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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	174HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:		Date:			
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1206-001
Part No.:	X-293587-01	Material:	AISI 4130 60K			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	AP046030	RC-10-57	216HBW/218HBW				

Sketch:

The sketch shows a cross-sectional view of a mechanical assembly. A central vertical pipe has a flanged top section. This is connected to a horizontal pipe that features a valve handle on its left side. The entire assembly is mounted on a base plate which has two small circular features, possibly mounting holes or gaskets, positioned symmetrically on either side of the central vertical pipe's base.

Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	174HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



HARDNESS TEST REPORT

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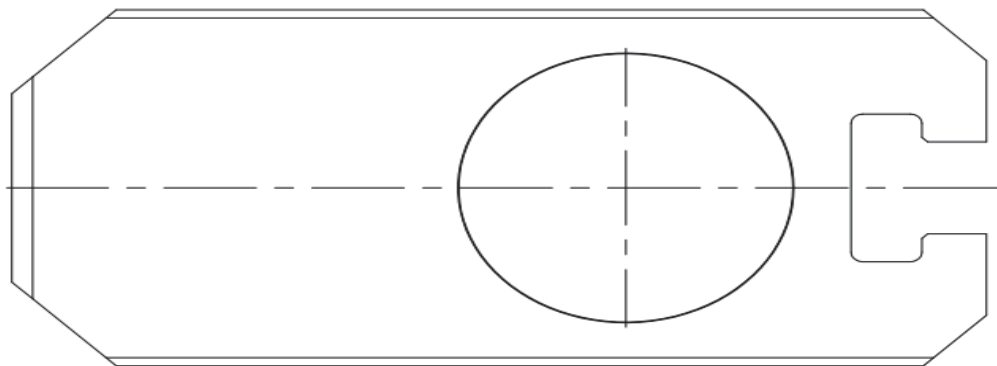
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:				Date:		
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM E10		API Monogram:	6A-2074		Report #:	20221130-05	
Part No.:	X-111342-01	Material:	AISI 410 75K					Coating:	/	
Description:	7-1/16"10000Psi Gate							Quantity:	1	
Item	S/N	Heat Log No.		Hardness	Item	S/N		Heat Log No.		Hardness
1	AP046095	HC2211012-01		219HBW						

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		



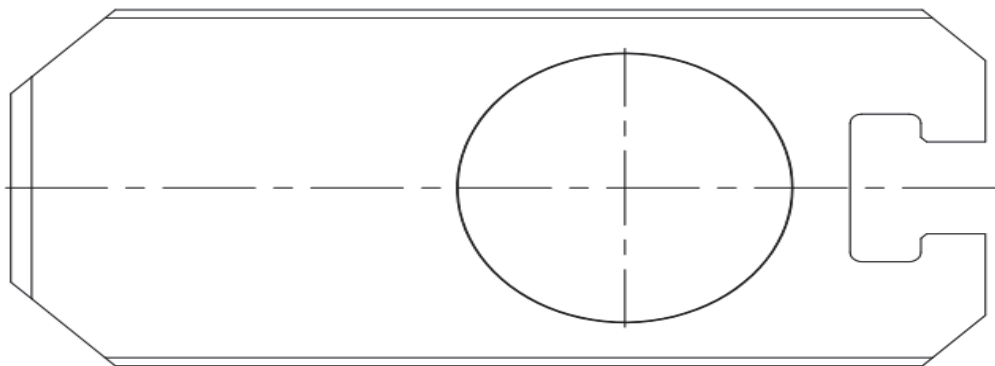
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HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20221130-07
Part No.:	X-111342-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"10000Psi Gate					Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP046095	HC2211012-01	1197HV				

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		



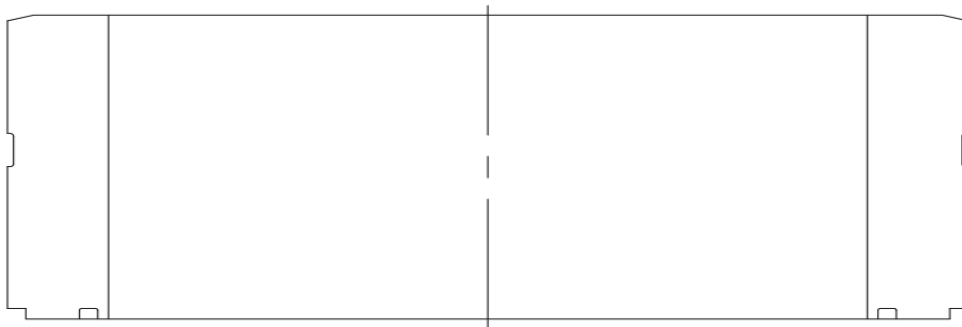
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20221130-06
Part No.:	X-111188-01	Material:	AISI 410 75K			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	AP046117	HC2211012-01	217HBW				
2	AP046120	HC2211012-01	230HBW				

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		



HARDNESS TEST REPORT

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安澜科技（江苏）股份有限公司
ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074		Report #:	UTP-1123-001	
Part No.:	X-293586-01	Material:	AISI 4130 60K			Coating:	/		
Description:	7-1/16"10000Psi Body						Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result		
1	AP046006	HY221117-5	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C		Couplant:	OIL					
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:		Customer PO#:		Date:			
Drawing #:		Specification:		API Monogram:			
Part No.:		Material:		Coating:			
Description:	7-1/16"10000Psi Bonnet				Quantity:		
					1		
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP046017	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 FBH Block	Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st	Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM A388		API Monogram:	6A-2074	Report #:	UTP-1120-003	
Part No.:	X-293587-01	Material:	AISI 4130 60K				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	AP046030	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C		Couplant:	OIL					
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1127-001
Part No.:	X-111326-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP046044	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	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:		
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1121-001		
Part No.:	X-111183-01	Material:	PH17-4 105K			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	AP046040	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 Φ 1.6 FBH Block Φ 3.2 FBH Block			Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL						
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st			Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB			Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	MTP-1205-002	
Part No.:	X-293586-01	Material:	AISI 4130 60K				Coating:	/	
Description:	7-1/16"10000Psi 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/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	AP046006	HY221117-5	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:		2022.12		

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1206-001	
Part No.:	X-111185-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi 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/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	AP046017	RC-10-57	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1205-001	
Part No.:	X-293587-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi 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/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	AP046030	RC-10-57	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		



LIQUID PENETRATE EXAMINATION

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MAGNETIC PARTICLE INSPECTION REPORT

22



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2211-H78	
Part No.:	X-111342-01	Material:	AISI 410 75K			Coating:	WC	
Description:	7-1/16"10000Psi 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	AP046095	HC2211012-01	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:	2022.11			



安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:				Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	NCS-2211-Q79	
Part No.:	X-111188-01	Material:	AISI 410 75K				Coating:	/	
Description:	7-1/16"10000Psi 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:		$\geq 1000Uw/cm^2$		
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	AP046117	HC2211012-01	Acceptable						
2	AP046120	HC2211012-01	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			Date:	2022.11				
NDT Level:	MT II								



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2211-H79	
Part No.:	X-111188-01	Material:	AISI 410 75K			Coating:	WC	
Description:	7-1/16"10000Psi 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	AP046117	HC2211012-01	Acceptable					
2	AP046120	HC2211012-01	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:		2022.11		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	QJ/JJ07.01.03.02/ASTM E165		API Monogram:	6A-2074	Report #:	PTP-1202-001	
Part No.:	X-111183-01	Material:	PH17-4-105K				Coating:	/	
Description:	7-1/16"10000Psi 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	AP046040	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:			1378		Date:		December,2022		
Drawing #:		PFFY70/180A L-00	Specification:		API6A-21st	API Monogram:		6A-2074	Report #:		AP046F002	
Part No.:		X-293586-01	Material:		AISI 4130 60K				Coating:		/	
Description:		7-1/16"10000Psi							Quantity:		1	
Item		Pressure		Method				Qty		Result		
Shell		22500psi		API 6A 21st				1		OK		
Seat		10000Psi		API 6A 21st				1		OK		
Item	S/N		Heat Log No.	Result		Item	S/N		Heat Log No.	Result		
				A	B					A	B	
1	AP046006		HY221117-5	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

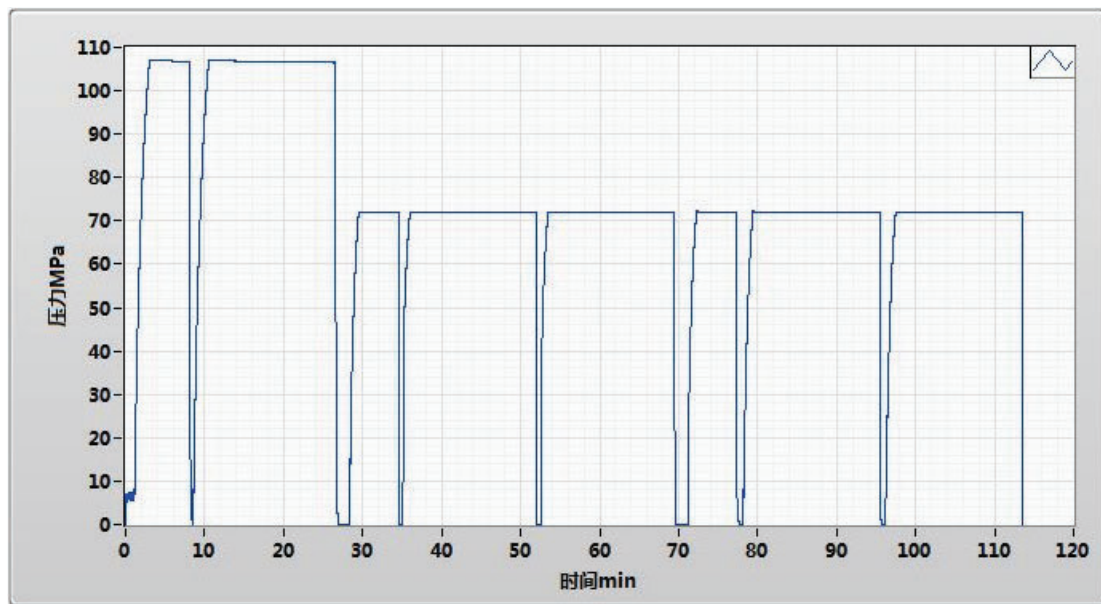
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP046F002	7-1/16" 10000Psi	API 6A 21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	107.02	106.72	4.0	0.30
2	107.00	106.48	15.0	0.51
3	71.98	71.97	4.0	0.02
4	72.00	71.91	15.0	0.08
5	71.99	71.91	15.0	0.09
6	72.12	72.05	4.0	0.07
7	72.13	71.98	15.0	0.16
8	72.09	71.97	15.0	0.11



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.12.16



REPORT INDEX

Purchase Order: 1378

Quantity: 1EA

Shipment No.: Crate# AP046F003

Shipment Date: December,2022

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



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CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1378, 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 #: 1378

SERIAL NO.: AP046F003

PART NO.: PFFY70/180AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: December, 2022

Customer: _____

P.O. Number: 1378



安澜科技（江苏）股份有限公司

No.: AV00012

Date:December,2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Customer		PO No.	Product		P/N		Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications										
		1378	HYDRAULIC GATE VALVE		PFFY70/180AL-00		AP046F003	1	7-1/16"	10000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st										
P/N	Parts	Description		Material Spec Standards	Q	Melting Practice		Austenitized		Quenched		Temper(1)		Temper(2)										
		Melt No.	H.T. No.			Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium						
		BODY	TX22-05899	RC-11-44	AISI 4130 60K,Per ASTM A29	1	AP046004	Forging	860	4.0H	4.0H	WATER	27	34	680	6.0H	AIR	/	/					
		BONNET	TX22-05899	RC-10-57	AISI 4130 60K,Per ASTM A29	1	AP046014	Forging	865	4.0H	4.0H	WATER	27	38	700	6.0H	AIR	/	/					
		TAIL BONNET	TX22-05899	RC-10-57	AISI 4130 60K,Per ASTM A29	1	AP046021	Forging	865	4.0H	4.0H	WATER	27	38	700	6.0H	AIR	/	/					
		STEM	YX2208-2019	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP046041	Forging	1030	3.5H	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	AP046039	Forging	1030	3.5H	3.5H	WATER	19	22	630	5.0H	AIR	630	5.2H	AIR				
	GATE	121V-1193	HC2211012-01	AISI 410 75K,Per ASTM A276/276M	1	AP046092	Forging	960	3.0H	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR					
	BODY BUSHING	121V-1193	HC2211012-01	AISI 410 75K,Per ASTM A276/276M	2	AP046107	Forging	960	3.0H	3.0H	OIL	39	51	720	6.0H	AIR	680	6.0H	AIR					
Chemical Analysis (wt. %)																								
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)	Elongatio n (%)	ROA (%)	Impact direction (Transverse)	Hardness	Equipment Type
TX22-05899	RC-11-44	0.30	0.52	0.24	0.012	0.003	0.97	0.02	0.187	0.005	/	/	0.02	/	/	8"x8"x10"	QTC	621	503	22.0	40.0	60/48/47	218HBW	JBW-3008/WDW-300
TX22-05899	RC-10-57	0.30	0.52	0.24	0.012	0.003	0.97	0.02	0.187	0.005	/	/	0.02	/	/	8"x8"x10"	QTC	623	509	29.0	41.0	58/47/45	221HBW	JBW-3008/WDW-300
TX22-05899	RC-10-57	0.30	0.52	0.24	0.012	0.003	0.97	0.02	0.187	0.005	/	/	0.02	/	/	8"x8"x10"	QTC	623	509	29.0	41.0	58/47/45	221HBW	JBW-3008/WDW-300
YX2208-2019	HY221113-5	0.026	0.47	0.40	0.027	0.002	15.60	4.15	/	/	/	/	3.64	0.244	/	ø 80x200	QTC	1051	944	21.3	57.6	40/35/42	32HRC	JBW-3008/WDW-300
YX2208-2234	HY221113-5	0.022	0.50	0.44	0.031	0.003	15.72	4.15	/	/	/	/	3.60	0.243	/	ø 80x200	QTC	1067	940	19.7	58.5	44/37/49	29HRC	JBW-3008/WDW-300
121V-1193	HC2211012-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	/	100x100x200	QTC	690	580	24.0	66.0	/	224HBW	JBW-3008/WDW-300
121V-1193	HC2211012-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	/	100x100x200	QTC	690	580	24.0	66.0	/	224HBW	JBW-3008/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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	174HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



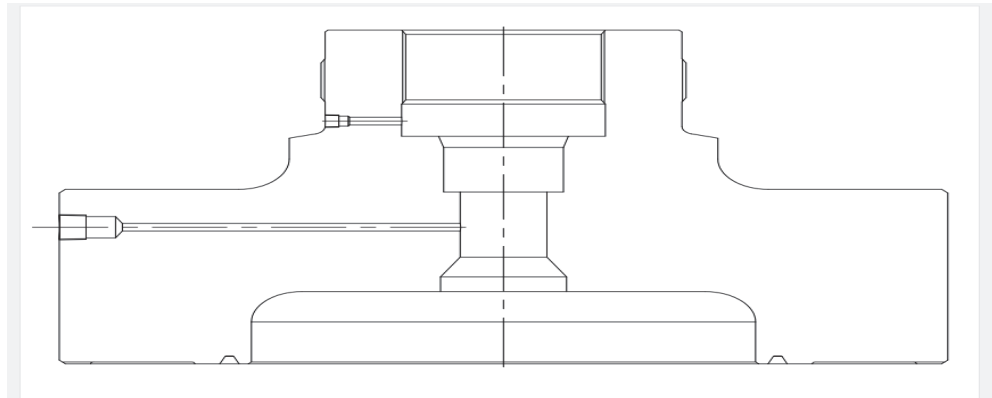
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1207-002
Part No.:	X-111185-01	Material:	AISI 4130 60K			Coating:	/
Description:	7-1/16"10000Psi Bonnet					Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP046014	RC-10-57	218HBW/220HBW				

Sketch:



Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	174HBW-235HBW	Approved By:	Examined By:
Judgments:	☒ V] Conforms	Xin zheng	Zhengguo Yao
	☐] Does Not Conform		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

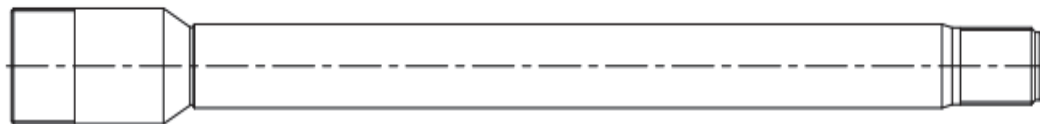
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Sketch:



Method Used:

Acceptable Hardness:

27HRC-33HRC

Approved By:

Examined By:

Judgments:

[V] Conforms

[] Does Not Conform

Xin zheng

Zhengguo Yao



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:				Date:	
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM E10		API Monogram:	6A-2074		Report #:	20221130-05
Part No.:	X-111342-01	Material:	AISI 410 75K					Coating:	/
Description:	7-1/16"10000Psi Gate							Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness		
1	AP046092	HC2211012-01	216HBW						

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		



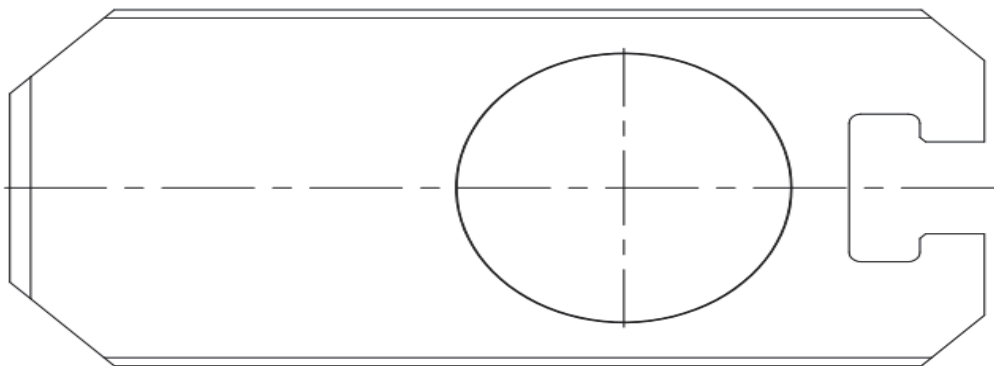
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM E92		API Monogram:	6A-2074	Report #:	20221130-07
Part No.:	X-111342-01	Material:	AISI 410 75K				Coating:	WC
Description:	7-1/16"10000Psi Gate						Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness	
1	AP046092	HC2211012-01	1171HV					

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		



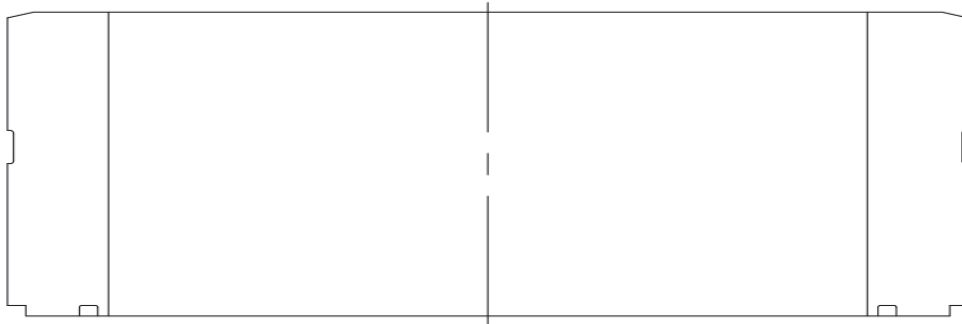
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20221130-06
Part No.:	X-111188-01	Material:	AISI 410 75K			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	AP046107	HC2211012-01	215HBW				
2	AP046106	HC2211012-01	224HBW				

Sketch:



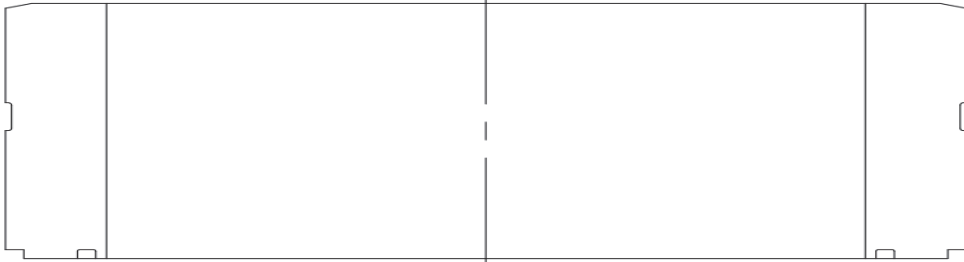
Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	207HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



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 #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20221130-08	
Part No.:	X-111188-01	Material:	AISI 410 75K			Coating:	WC	
Description:	7-1/16"10000Psi Body bushing					Quantity:	2	
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness	
1	AP046107	HC2211012-01	1171HV					
2	AP046106	HC2211012-01	1197HV					
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							



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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

Sketch:

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安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1378		Date:	December,2022
Drawing #:	PFFY70/180A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1123-001	
Part No.:	X-293586-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi Body					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP046004	RC-11-44	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL					
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+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:	2	
Drawing #:		Specification:		API Monogram:		Report #:		
Part No.:		Material:				Coating:		
Description:	7-1/16"10000Psi Bonnet					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP046014	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL					
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM A388		API Monogram:	6A-2074	Report #:	UTP-1120-003	
Part No.:	X-293587-01	Material:	AISI 4130 60K				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	AP046021	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C		Couplant:	OIL					
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1127-001		
Part No.:	X-111326-01	Material:	PH17-4 105K			Coating:	/		
Description:	7-1/16"10000Psi Stem					Quantity:	1		
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result		
1	AP046041	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II			
Equipment:	MUT-800C	Couplant:	OIL						
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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 #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1121-001		
Part No.:	X-111183-01	Material:	PH17-4 105K			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	AP046039	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II			
Equipment:	MUT-800C	Couplant:	OIL						
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II			

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1205-002	
Part No.:	X-293586-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi 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/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	AP046004	RC-11-44	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	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1206-001	
Part No.:	X-111185-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi	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/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	AP046014	RC-10-57	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1205-001	
Part No.:	X-293587-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi 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/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	AP046021	RC-10-57	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		



LIQUID PENETRATE EXAMINATION

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MAGNETIC PARTICLE INSPECTION REPORT

Inspection Coverage:

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2211-H78	
Part No.:	X-111342-01	Material:	AISI 410 75K			Coating:	WC	
Description:	7-1/16"10000Psi 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	AP046092	HC2211012-01	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:	2022.11			



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:				Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	NCS-2211-Q79	
Part No.:	X-111188-01	Material:	AISI 410 75K				Coating:	/	
Description:	7-1/16"10000Psi 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:		$\geq 1000Uw/cm^2$		
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	AP046107	HC2211012-01	Acceptable						
2	AP046106	HC2211012-01	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:		2022.11		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2211-H79	
Part No.:	X-111188-01	Material:	AISI 410 75K			Coating:	WC	
Description:	7-1/16"10000Psi 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	AP046107	HC2211012-01	Acceptable					
2	AP046106	HC2211012-01	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:	2022.11			



LIQUID PENETRATE EXAMINATION

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:			1378		Date:		December,2022			
Drawing #:		PFFY70/180A L-00	Specification:		API6A-21st	API Monogram:		6A-2074	Report #:		AP046F003		
Part No.:		X-293586-01	Material:		AISI 4130 60K				Coating:		/		
Description:		7-1/16"10000Psi							Quantity:		1		
Item		Pressure		Method				Qty		Result			
Shell		22500psi		API 6A 21st				1		OK			
Seat		10000Psi		API 6A 21st				1		OK			
Item	S/N		Heat Log No.		Result		Item	S/N		Heat Log No.		Result	
					A	B						A	B
1	AP046004		RC-11-44		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										



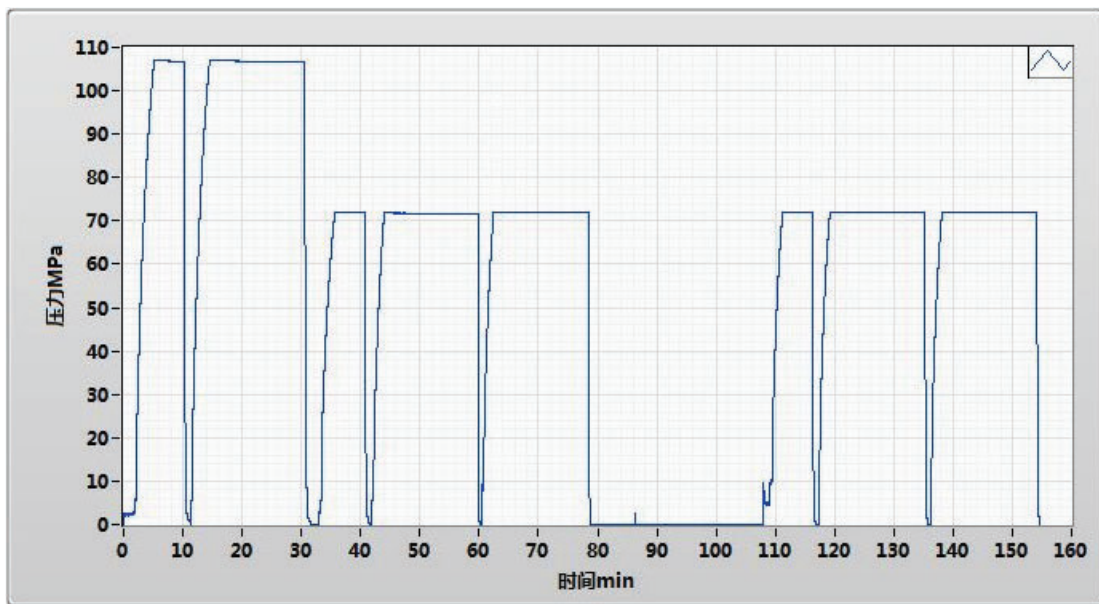
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP046F003	7-1/16" 10000Psi	API 6A 21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	106.98	106.71	4.0	0.26
2	107.01	106.61	15.0	0.41
3	72.07	72.05	4.0	0.03
4	71.84	71.70	15.0	0.15
5	72.11	72.00	15.0	0.11
6	72.01	71.88	4.0	0.13
7	72.07	71.87	15.0	0.21
8	72.11	71.98	15.0	0.12



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.12.17



REPORT INDEX

Purchase Order: 1378

Quantity: 1EA

Shipment No.: Crate# AP046F004

Shipment Date: December,2022

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 # 1378, 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 #: 1378

SERIAL NO.: AP046F004

PART NO.: PFFY70/180AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: December, 2022

Customer: _____

P.O. Number: 1378



安澜科技（江苏）股份有限公司

No.: AV00012

Date:December,2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

Customer		PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications										
		1378	HYDRAULIC GATE VALVE	PFFY70/180AL-00	AP046F004	1	7-1/16"	10000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st										
P/N	Parts	Description		Melting Practice			Heat Treatment			Physical Properties			Equipment Type									
		Melt No.	H.T. No.	Material Spec Standards	Q t y	Austenized		Quenched		Temper(1)		Impact (46°C) Impact direction (Transverse)										
						Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp			Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)				
PFFY70/180AL-00	BODY	TX22-05899	HY221117-5	AISI 4130 60K,Per ASTM A29	1	AP046010	Forging	880	5.5H	WATER	21	25	660	AIR	/	/						
	BONNET	TX22-05899	RC-10-57	AISI 4130 60K,Per ASTM A29	1	AP046011	Forging	865	4.0H	WATER	27	38	700	AIR	/	/						
	TAIL BONNET	TX22-05899	RC-10-57	AISI 4130 60K,Per ASTM A29	1	AP046023	Forging	865	4.0H	WATER	27	38	700	AIR	/	/						
	STEM	YX2208-2019	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP046043	Forging	1030	3.5H	WATER	19	22	630	AIR	5.2H	AIR						
	BALANCE STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP046033	Forging	1030	3.5H	WATER	19	22	630	AIR	5.2H	AIR						
	GATE	121V-1193	HC2211012-01	AISI 410 75K,Per ASTM A276/276M	1	AP046100	Forging	960	3.0H	OIL	39	51	720	AIR	6.0H	AIR						
	BODY BUSHING	121V-1193	HC2211012-01	AISI 410 75K,Per ASTM A276/276M	2	AP046105 AP046104	Forging	960	3.0H	OIL	39	51	720	AIR	6.0H	AIR						
Chemical Analysis (wt. %)																						
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Orig'n	Tensile (MPa)	Yield (MPa)	Elongatio n (%)	ROA (%)	Impact direction (Transverse)	Hardness
TX22-05899	HY221117-5	0.30	0.52	0.24	0.012	0.003	0.97	0.02	0.187	0.005	/	/	0.02	/	/	QTC	707	533	24.4	68.6	87/127/53	224HBW
TX22-05899	RC-10-57	0.30	0.52	0.24	0.012	0.003	0.97	0.02	0.187	0.005	/	/	0.02	/	/	QTC	623	509	29.0	41.0	58/47/45	221HBW
TX22-05899	RC-10-57	0.30	0.52	0.24	0.012	0.003	0.97	0.02	0.187	0.005	/	/	0.02	/	/	QTC	623	509	29.0	41.0	58/47/45	221HBW
YX2208-2019	HY221113-5	0.026	0.47	0.40	0.027	0.002	15.60	4.15	/	/	/	/	3.64	0.244	/	QTC	1051	944	21.3	57.6	40/35/42	32HRC
YX2208-2234	HY221113-5	0.022	0.50	0.44	0.031	0.003	15.72	4.15	/	/	/	/	3.60	0.243	/	QTC	1067	940	19.7	58.5	44/37/49	29HRC
121V-1193	HC2211012-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	/	QTC	690	580	24.0	66.0	/	224HBW
121V-1193	HC2211012-01	0.12	0.38	0.54	0.022	0.002	11.8	0.15	/	/	/	/	/	/	/	QTC	690	580	24.0	66.0	/	224HBW

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	174HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

A technical drawing of a mechanical assembly in cross-section. The assembly consists of a base plate with a central raised section. A vertical shaft passes through the center of the base plate and is secured by a nut and washer at the top. A horizontal shaft is connected to the vertical shaft via a coupling. The horizontal shaft is supported by a bearing housing on the left side. The drawing uses solid lines for visible edges and a dashed line for the hidden part of the horizontal shaft.

Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	174HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1206-001
Part No.:	X-293587-01	Material:	AISI 4130 60K			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	AP046023	RC-10-57	218HBW/222HBW				

Sketch:

The diagram shows a technical drawing of a mechanical component, likely a tail bonnet or valve actuator. It features a central vertical shaft passing through several concentric cylindrical components. At the top, there's a small cap or seal. The middle section consists of multiple stacked rings or seals. A horizontal rod extends from the left side, terminating in a nut or threaded end. The bottom part has a wider rectangular base with rounded corners. Vertical dashed lines indicate symmetry.

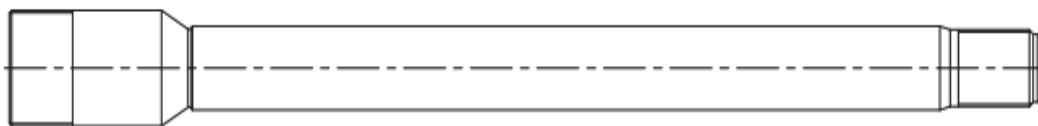
Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	174HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Sketch:



Method Used:

Acceptable Hardness:

27HRC-33HRC

Approved By:

Examined By:

Judgments:

[V] Conforms

[] Does Not Conform

Xin zheng

Zhengguo Yao



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



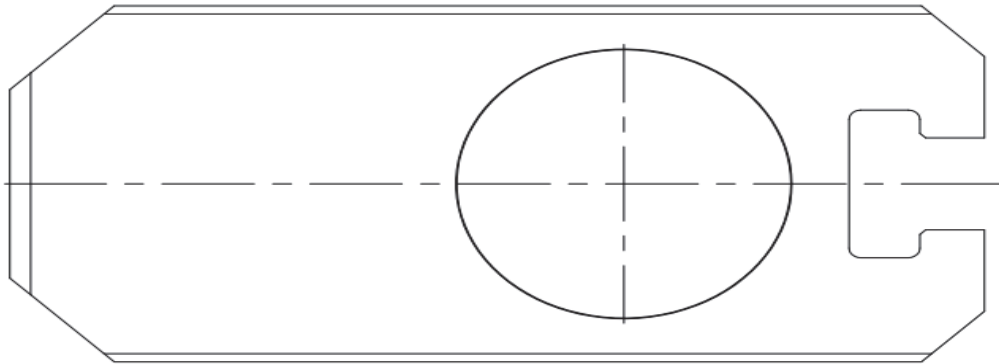
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20221130-07
Part No.:	X-111342-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"10000Psi Gate					Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP046100	HC2211012-01	1171HV				

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		



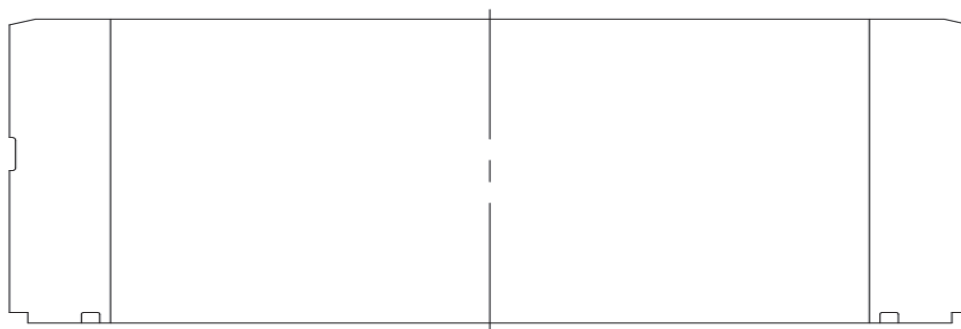
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:		
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20221130-06	
Part No.:	X-111188-01	Material:	AISI 410 75K			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	AP046105	HC2211012-01	219HBW					
2	AP046104	HC2211012-01	230HBW					

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20221130-08
Part No.:	X-111188-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"10000Psi Body bushing					Quantity:	2
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP046105	HC2211012-01	1197HV				
2	AP046104	HC2211012-01	1197HV				
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					



HARDNESS TEST REPORT

12



安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1378		Date:	December,2022
Drawing #:	PFFY70/180A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1123-001	
Part No.:	X-293586-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi Body					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP046010	HY221117-5	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL					
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+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:	2	
Drawing #:		Specification:		API Monogram:		Report #:		
Part No.:		Material:				Coating:		
Description:	7-1/16"10000Psi Bonnet					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP046011	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL					
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM A388		API Monogram:	6A-2074	Report #:	UTP-1120-003	
Part No.:	X-293587-01	Material:	AISI 4130 60K				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	AP046023	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 FBH Block			Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL						
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st			Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB			Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1127-001
Part No.:	X-111326-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP046043	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	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1121-001
Part No.:	X-111183-01	Material:	PH17-4 105K			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	AP046033	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



MAGNETIC PARTICLE INSPECTION REPORT

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MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1206-001	
Part No.:	X-111185-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi 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/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	AP046011	RC-10-57	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1205-001	
Part No.:	X-293587-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi 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/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	AP046023	RC-10-57	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		

LIQUID PENETRATE EXAMINATION

[illegible]

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:	2022.11



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2211-Q78
Part No.:	X-111342-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"10000Psi 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:		$\geq 1000\text{Uw/cm}^2$	
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	AP046100	HC2211012-01	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:	2022.11		



LIQUID PENETRATE EXAMINATION

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



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:				Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	NCS-2211-Q79	
Part No.:	X-111188-01	Material:	AISI 410 75K				Coating:	/	
Description:	7-1/16"10000Psi 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:		$\geq 1000Uw/cm^2$		
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	AP046105	HC2211012-01	Acceptable						
2	AP046104	HC2211012-01	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:		2022.11		



LIQUID PENETRATE EXAMINATION

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LIQUID PENETRATE EXAMINATION

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:			1378		Date:		December,2022	
Drawing #:		PFFY70/180A L-00	Specification:		API6A-21st	API Monogram:		6A-2074	Report #:		AP046F004
Part No.:		X-293586-01	Material:		AISI 4130 60K				Coating:		/
Description:		7-1/16"10000Psi							Quantity:		1
Item		Pressure		Method				Qty		Result	
Shell		22500psi		API 6A 21st				1		OK	
Seat		10000Psi		API 6A 21st				1		OK	
Item	S/N		Heat Log No.	Result		Item	S/N		Heat Log No.	Result	
				A	B					A	B
1	AP046010		HY221117-5	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								



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

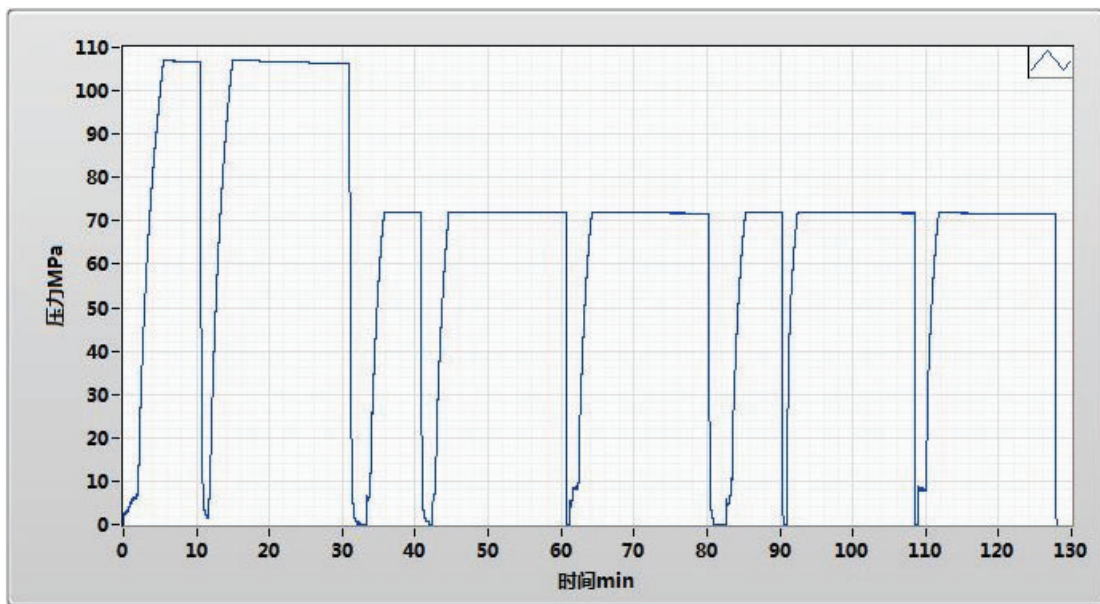
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP046F004	7-1/16" 10000Psi	API 6A 21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	106.90	106.61	4.0	0.29
2	107.04	106.38	15.0	0.66
3	71.92	71.89	4.0	0.03
4	72.04	71.92	15.0	0.12
5	71.96	71.75	15.0	0.20
6	71.98	71.92	4.0	0.07
7	71.98	71.80	15.0	0.18
8	71.88	71.62	15.0	0.25



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.12.16



REPORT INDEX

Purchase Order: 1378

Quantity: 1EA

Shipment No.: Crate# AP046F005

Shipment Date: December,2022

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



CERTIFICATE OF CONFORMITY

THE FOLLOWING ITEM IS IN CONFORMITY WITH PO # 1378, 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 #: 1378

SERIAL NO.: AP046F005

PART NO.: PFFY70/180AL-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:

INSPECTOR: Zhicheng Feng

(STAMP)

CHIEF ENGINEER: Xin Zheng

EX-FACTORY DATE: December, 2022

Customer: _____

P.O. Number: 1378



Date: December, 2022

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD
Certified Material Test Report

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:		Date:			
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	HP-1205-001
Part No.:	X-293586-01	Material:	AISI 4130 60K			Coating:	/
Description:	7-1/16"10000Psi Body					Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP046003	RC-11-44	217HBW/222HBW 220HBW/215HBW				

Sketch:

Method Used:	Impact Energy: 3000Kg.	Diameter of tungsten ball: 10mm	
Acceptable Hardness:	174HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

A technical drawing of a shaft. The left end features a square keyway. The shaft has a long central section and a hexagonal end on the right. A dashed line indicates the center of the shaft.

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:		Date:			
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM E10	API Monogram:	6A-2074	Report #:	20221130-05
Part No.:	X-111342-01	Material:	AISI 410 75K	Coating:	/		
Description:	7-1/16"1000Psi Gate				Quantity:	1	
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP046094	HC2211012-01	213HBW				

Sketch:

The sketch shows two technical drawings of a mechanical part, likely a gate valve body. The top drawing is a side view or front elevation showing a long cylindrical component with flanges at both ends. A horizontal centerline runs through the middle. On the right end, there's a detailed profile of the connection face, which appears to have a raised circular area surrounded by a recessed ring. Below it, another similar drawing is shown from a different perspective, possibly a rear view or a section view, also featuring a central circle and surrounding features. Dashed lines indicate hidden internal edges or symmetries.

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



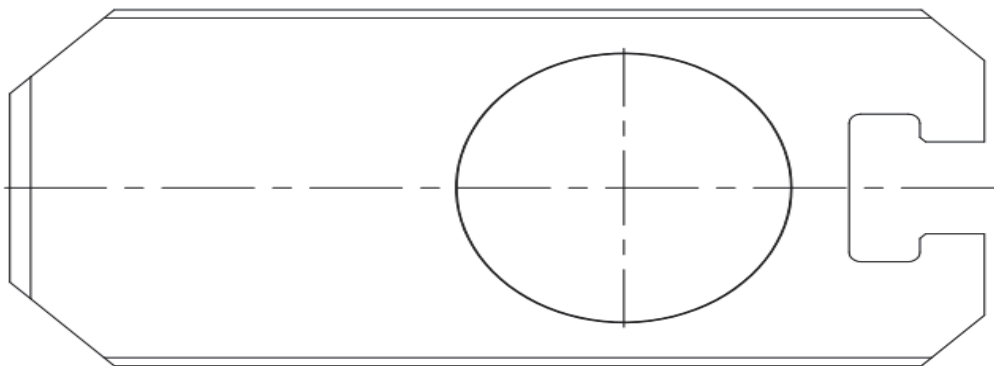
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM E92	API Monogram:	6A-2074	Report #:	20221130-07
Part No.:	X-111342-01	Material:	AISI 410 75K			Coating:	WC
Description:	7-1/16"10000Psi Gate					Quantity:	1
Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP046094	HC2211012-01	1171HV				

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		



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[illegible]

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		



HARDNESS TEST REPORT

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HARDNESS TEST REPORT

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安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1378		Date:	December,2022
Drawing #:	PFFY70/180A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1123-001	
Part No.:	X-293586-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi Body					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP046003	RC-11-44	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL					
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	2	
Drawing #:		Specification:		API Monogram:		Report #:		
Part No.:		Material:				Coating:		
Description:	7-1/16"10000Psi Bonnet					Quantity:	1	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	AP046016	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C	Couplant:	OIL					
Date of calibration	2022.03.02							
Period of validity	2023.03.02							
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL -00	Specification:	API Spec 6A 21st /ASTM A388		API Monogram:	6A-2074	Report #:	UTP-1120-003	
Part No.:	X-293587-01	Material:	AISI 4130 60K				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	AP046028	RC-10-57	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II		
Equipment:	MUT-800C		Couplant:	OIL					
Date of calibration	2022.03.02								
Period of validity	2023.03.02								
Probe Used:	2.5P Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1127-001
Part No.:	X-111326-01	Material:	PH17-4 105K			Coating:	/
Description:	7-1/16"10000Psi Stem					Quantity:	1
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	AP046047	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	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1121-001
Part No.:	X-111183-01	Material:	PH17-4 105K			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	AP046038	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 Φ 1.6 FBH Block Φ 3.2 FBH Block		Level as per UT:	II	
Equipment:	MUT-800C	Couplant:	OIL				
Date of calibration	2022.03.02						
Period of validity	2023.03.02						
Probe Used:	2.5P Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



MAGNETIC PARTICLE INSPECTION REPORT

18

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1206-001	
Part No.:	X-111185-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi 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/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	AP046016	RC-10-57	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	MTP-1205-001	
Part No.:	X-293587-01	Material:	AISI 4130 60K			Coating:	/	
Description:	7-1/16"10000Psi 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/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	AP046028	RC-10-57	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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:	2022.11



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:		Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709	API Monogram:	6A-2074	Report #:	NCS-2211-Q78
Part No.:	X-111342-01	Material:	AISI 410 75K			Coating:	/
Description:	7-1/16"10000Psi 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:		$\geq 1000\text{Uw/cm}^2$	
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	AP046094	HC2211012-01	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:	2022.11		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	QJ/JJ07.01.03.02/ ASTM E165	API Monogram:	6A-2074	Report #:	NCS-2211-H78	
Part No.:	X-111342-01	Material:	AISI 410 75K			Coating:	WC	
Description:	7-1/16"10000Psi 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	AP046094	HC2211012-01	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:		2022.11		

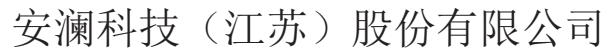


安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

MAGNETIC PARTICLE INSPECTION REPORT

Customer:				Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	API Spec 6A 21st /ASTM E709		API Monogram:	6A-2074	Report #:	NCS-2211-Q79	
Part No.:	X-111188-01	Material:	AISI 410 75K				Coating:	/	
Description:	7-1/16"10000Psi 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:		$\geq 1000Uw/cm^2$		
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	AP046111	HC2211012-01	Acceptable						
2	AP046110	HC2211012-01	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			Date:	2022.11				
NDT Level:	MT II								



LIQUID PENETRATE EXAMINATION

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:	1378		Date:	December,2022	
Drawing #:	PFFY70/180AL-00	Specification:	QJ/JJ07.01.03.02/ASTM E165		API Monogram:	6A-2074	Report #:	PTP-1202-001	
Part No.:	X-111183-01	Material:	PH17-4-105K				Coating:	/	
Description:	7-1/16"10000Psi 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	AP046038	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:			Customer PO#:			1378		Date:		December,2022	
Drawing #:		PFFY70/180A L-00	Specification:		API6A-21st	API Monogram:		6A-2074	Report #:		AP046F005
Part No.:		X-293586-01	Material:		AISI 4130 60K				Coating:		/
Description:		7-1/16"10000Psi							Quantity:		1
Item		Pressure		Method				Qty		Result	
Shell		22500psi		API 6A 21st				1		OK	
Seat		10000Psi		API 6A 21st				1		OK	
Item	S/N		Heat Log No.	Result		Item	S/N		Heat Log No.	Result	
				A	B					A	B
1	AP046003		RC-11-44	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

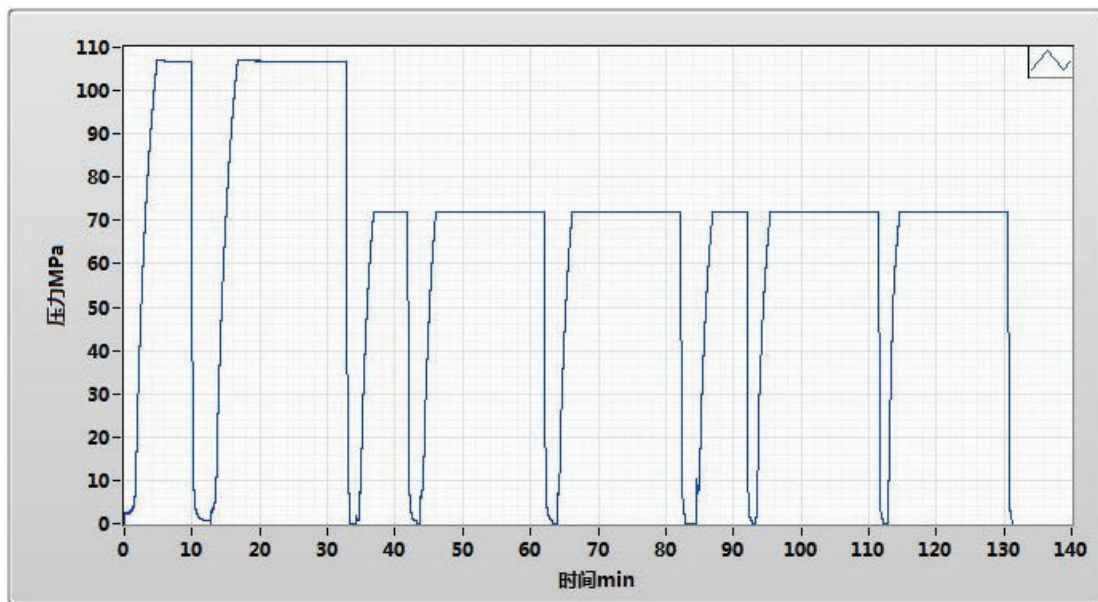
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
Hydraulic Gate Valve	AP046F005	7-1/16" 10000Psi	API 6A 21st	Shell & Seat	2#	

Test Data

LEVEL	INITIAL PRESSURE (Mpa)	TERMINATED PRESSURE (Mpa)	HOLDING TIME (Min)	PRESSURE DROPPING (Mpa)
1	106.89	106.61	4.0	0.28
2	106.94	106.58	15.0	0.37
3	72.09	72.06	4.0	0.03
4	72.05	71.92	15.0	0.13
5	72.09	71.95	15.0	0.14
6	72.06	72.01	4.0	0.06
7	71.98	71.80	15.0	0.18
8	71.96	71.82	15.0	0.14



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2022.12.17



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F001

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.: AP050F001

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications													
	1392	HYDRAULIC GATE VALVE	PFFY105/103AL-00	AP050F001	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st													
P/N	Parts	Description		Melting Practice			Austenized			Quenched			Heat Treatment			Temper(1)		Temper(2)						
		Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium						
PFFY105/103A L-00	BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	1	AP050035	Forging	860	3.5H	WATER	28	38	680	5.0H	AIR	/	/	/						
	BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050041	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/	/						
	STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050083	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	AP050063	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	AP050158	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	AP050164 AP050146	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	AP050001	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/	/							
Chemical Analysis (wt. %)																								
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)	Elongati on (%)	ROA (%)	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	/	ø 80x200	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	/	ø 80x200	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.

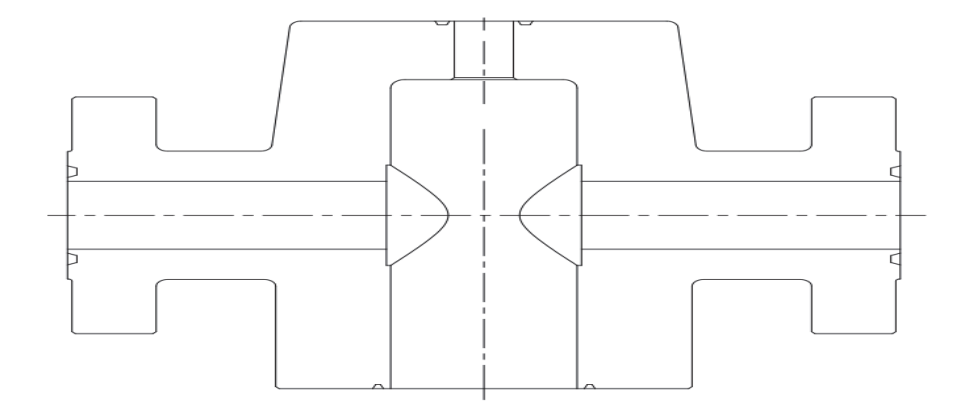
The information in this report is true and correct to our knowledge.

-----Xin Zheng-----
NAME of QA Manager, for and on the authority of COMPANY NAME



HARDNESS TEST REPORT

Sketch:

4



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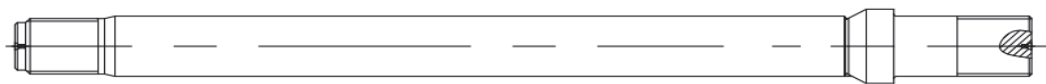
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050083	HY221113-5	29HRC					

Sketch:



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



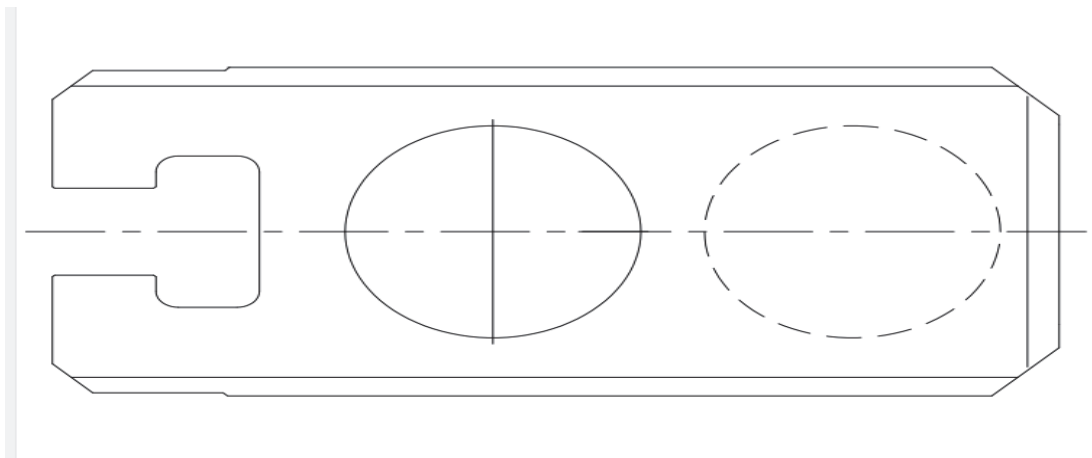
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A 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	AP050158	221110102Q2	217HBW				

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		



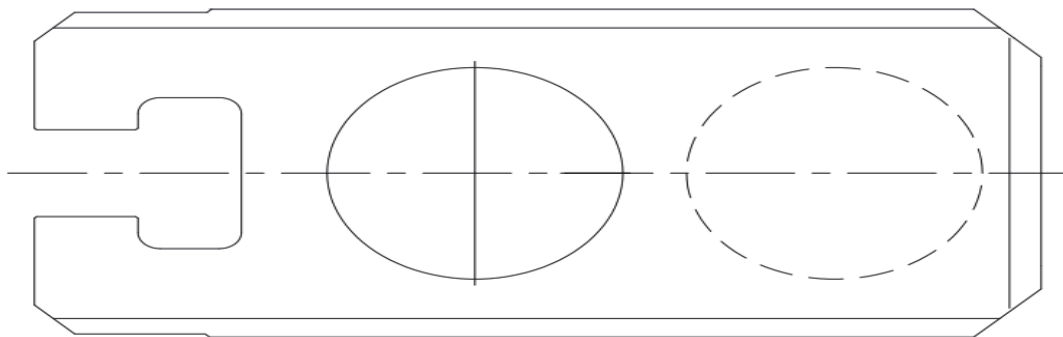
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HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-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	AP050158	221110102Q2	1312HV				

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		



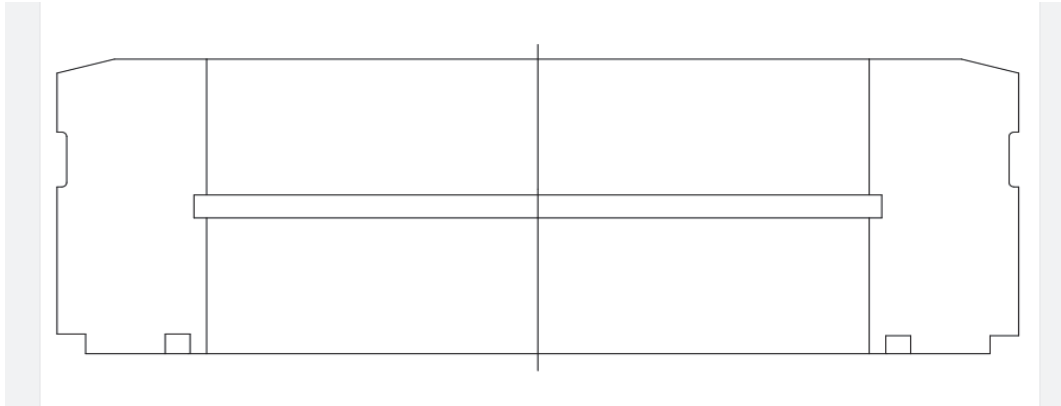
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050164	221110102Q2	98HRB					
2	AP050146	221110102Q2	95HRB					

Sketch:



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



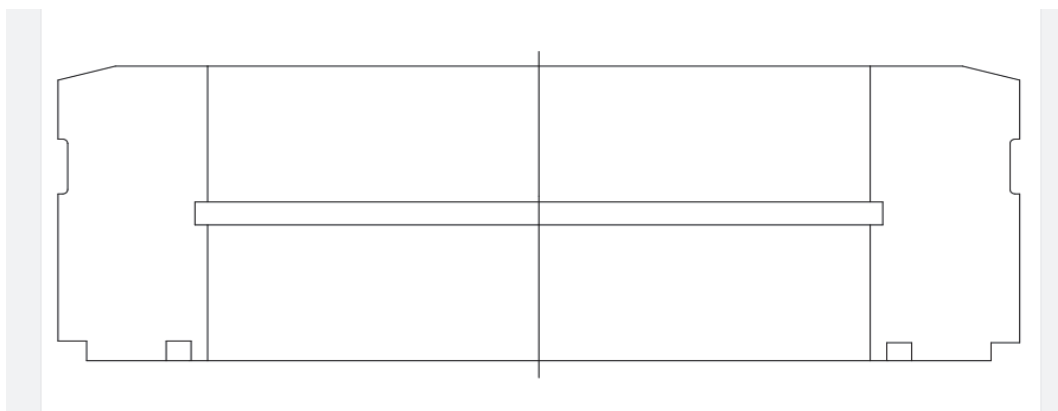
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	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	AP050164	221110102Q2	1271HV				
2	AP050146	221110102Q2	1288HV				

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050063	HY221113-5	29HRC				
Sketch:							
A technical drawing of a long, cylindrical metal component, identified as a balance stem. The drawing shows two end views and a side view. The left end view shows a hexagonal base with a central hole. The right end view shows a similar hexagonal base with a central hole, which is shaded with diagonal lines. A dashed horizontal line runs through the center of the cylinder, representing its axis of symmetry.							
Method Used:							
Acceptable Hardness:		27HRC-33HRC		Approved By:		Examined By:	
Judgments:		[V] Conforms		Xin zheng		Zhengguo Yao	
		[] Does Not Conform					



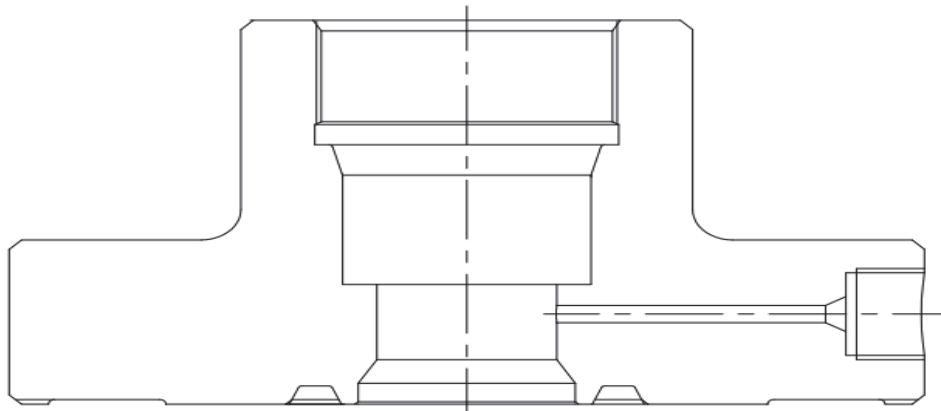
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:			
Drawing #:		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	AP050001	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	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



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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	AP050035	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II			



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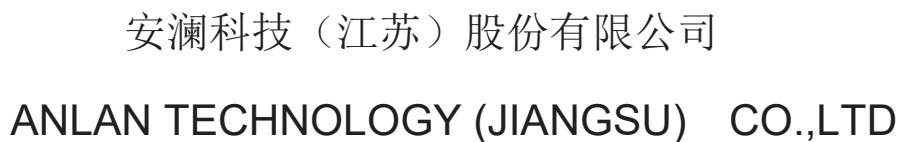
ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1392		Date:	2022.12	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1		
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	AP050041	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050083	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	

[illegible]



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ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050001	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050035	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		



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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	AP050041	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			Date:	2022.12				
NDT Level:	MT II			Date:	2022.12				



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[illegible]

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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:		$\geq 1000\text{Uw/cm}^2$	
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	AP050158	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050158	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050164	221110102Q2	Acceptable						
2	AP050146	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050164	221110102Q2	Acceptable					
2	AP050146	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			



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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	AP050063	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				



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050001	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 #:	AP050F001		
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	AP050035	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									
Judgments:					Approved By:		Examined By:		
			[V] Conforms		Xin Zheng		Yifei Ma		
			[] Does Not Conform						



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

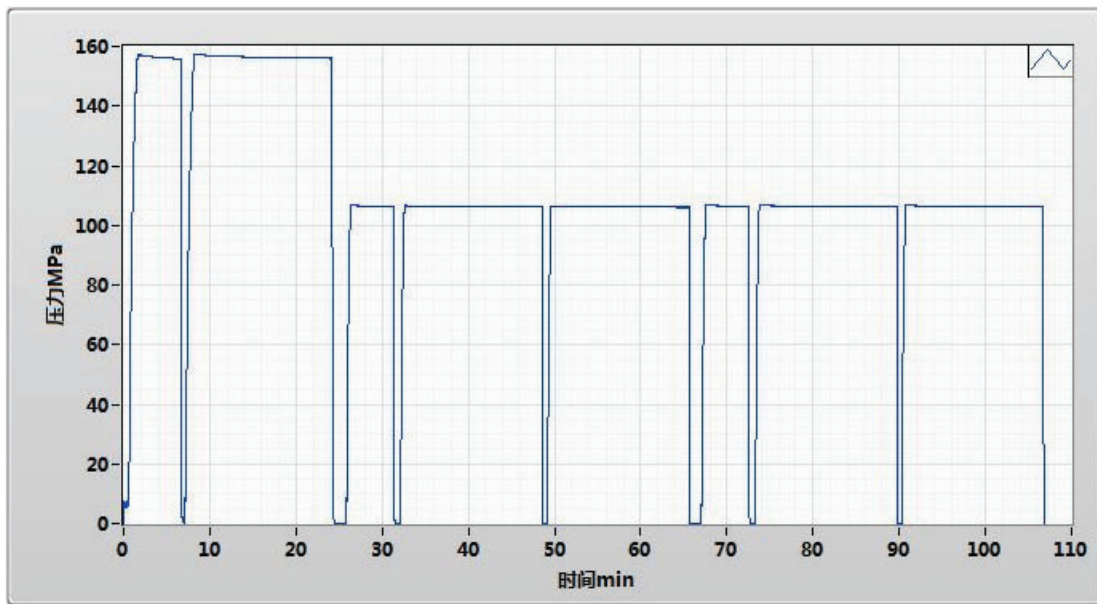
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F001	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	156.74	155.83	4.0	0.92
2	157.11	155.99	15.0	1.13
3	106.57	106.51	4.0	0.07
4	106.49	106.23	15.0	0.26
5	106.24	106.03	15.0	0.20
6	106.61	106.41	4.0	0.20
7	106.60	106.27	15.0	0.33
8	106.58	106.37	15.0	0.21



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2023.01.05



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F003

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.: AP050F003

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications										
		1392	HYDRAULIC GATE VALVE		PFFY105/103AL-00	AP050F003	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st										
P/N	Parts	Description		Melting Practice			Austenized		Quenched			Temper(1)		Temper(2)									
		Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Time (min)							
PFFY105/103A L-00	BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	1	AP050030	Forging	860	3.5H	WATER	28	38	680	AIR	/	/							
	BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050048	Forging	860	3.5H	WATER	28	37	690	AIR	/	/							
	STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050094	Forging	1030	3.5H	WATER	19	22	630	AIR	5.2H	AIR							
	BALANCE STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050062	Forging	1030	3.5H	WATER	19	22	630	AIR	5.2H	AIR							
	GATE	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	1	AP050149	Forging	990	4.5H	OIL	39	43	720	AIR	5.5H	AIR							
	BODY BUSHING	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	2	AP050161 AP050170	Forging	990	4.5H	OIL	39	43	720	AIR	5.5H	AIR							
	TAIL BONNET	22106193C	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050020	Forging	860	3.5H	WATER	28	37	690	AIR	/	/							
Chemical Analysis (wt. %)																							
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongati on (%)	ROA (%)	Impact(-46°C) 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	/	/	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	/	/	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	/	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	/	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	/	/	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	/	/	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	/	/	QTC	672	530	45.0	54.0	61/60/57	219HBW	JBW-300B/WDW-300



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[illegible]

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		



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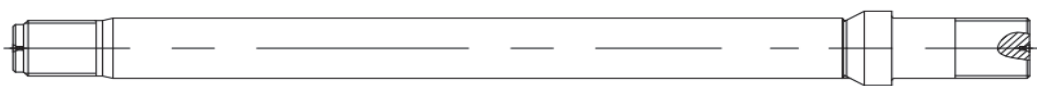
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[illegible]

Sketch:



Acceptable Hardness:

27HRC-33HRC

Approved By:

Examined By:

Judgments:

[V] Conforms

[] Does Not Conform

Xin zheng

Zhengguo Yao



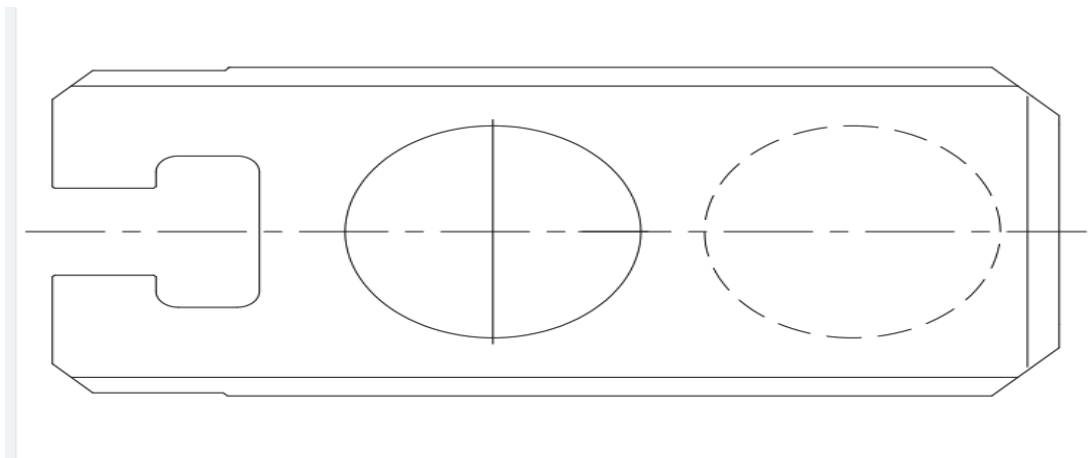
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:		
Drawing #:	PFFY105/103A 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	AP050149	221110102Q2	229HBW					

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		



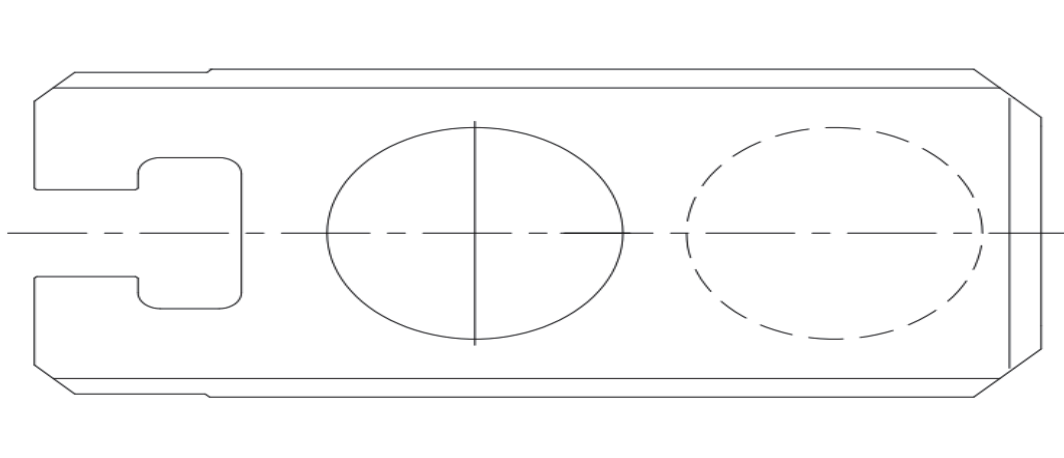
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-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	AP050149	221110102Q2	1256HV					

Sketch:

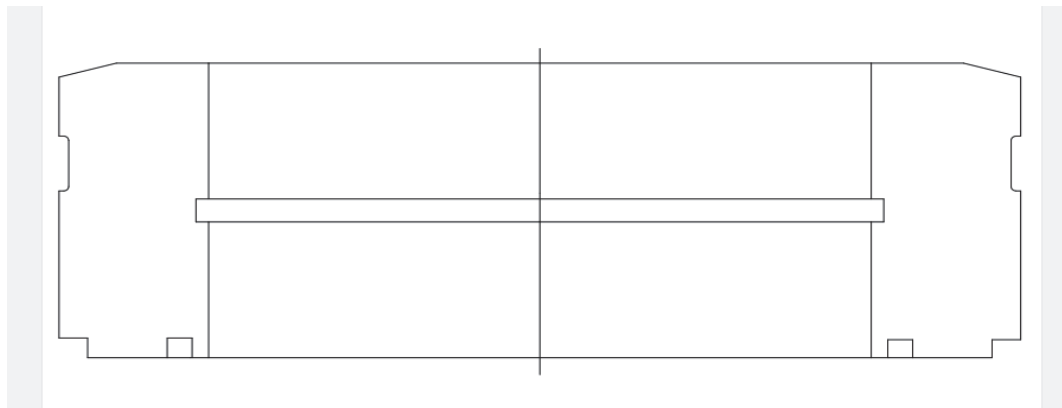


Method Used:	Impact Energy: 5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



HARDNESS TEST REPORT

Sketch:

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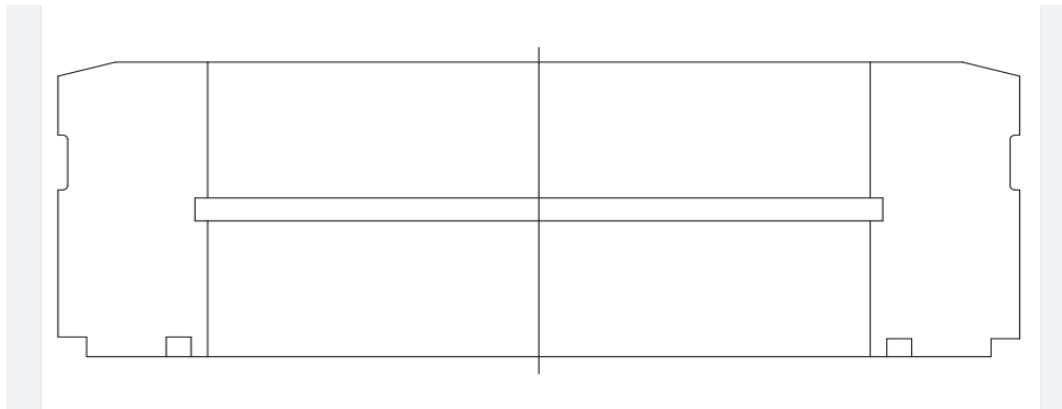
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050161	221110102Q2	1311HV					
2	AP050170	221110102Q2	1284HV					

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050062	HY221113-5	29HRC						
Sketch:									
The sketch shows a long cylindrical component with several features. On the left end, there's a flange-like structure with a central hole. A dashed horizontal line runs through the center of the cylinder, indicating its axis. Towards the right end, there's another transition where the diameter changes slightly before ending in a hexagonal shape. The internal thread at the very end is shown with cross-hatching.									
Method Used:									
Acceptable Hardness:		27HRC-33HRC		Approved By:			Examined By:		
Judgments:		[V] Conforms		Xin zheng			Zhengguo Yao		
		[] Does Not Conform							



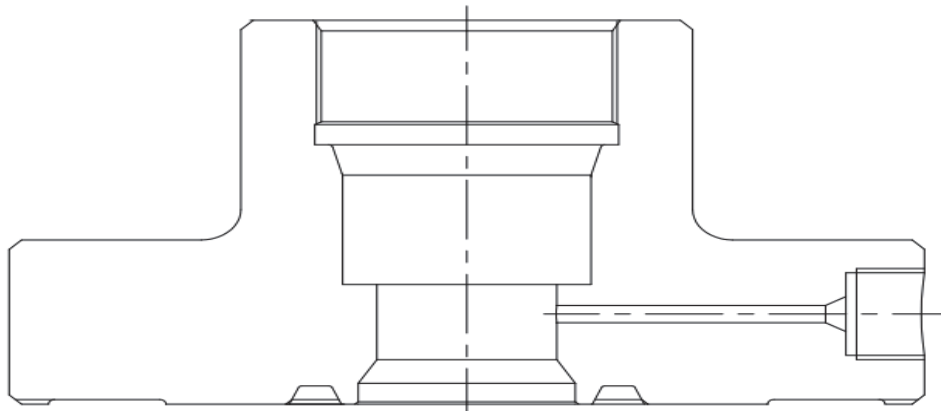
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:			
Drawing #:		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	AP050020	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	AP050030	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II			

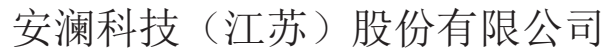


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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1392		Date:	2022.12	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1		
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	AP050048	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ULTRASONIC EXAMINATION REPORT

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



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-1214-00 1
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	AP050062	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050020	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		

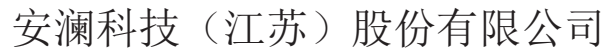


ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050030	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		

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/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	AP050048	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		



LIQUID PENETRATE EXAMINATION

Inspection Coverage:

Evaluation & Disposition:	Found to be satisfactory

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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:		$\geqslant 1000Uw/cm^2$	
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	AP050149	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050149	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050161	221110102Q2	Acceptable						
2	AP050170	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050161	221110102Q2	Acceptable					
2	AP050170	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		

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	AP050062	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		



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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	AP050020	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			Date:	2022.12				
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 #:	AP050F003		
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	AP050030	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									
Judgments:					Approved By:		Examined By:		
			[V] Conforms		Xin Zheng		Yifei Ma		
			[] Does Not Conform						



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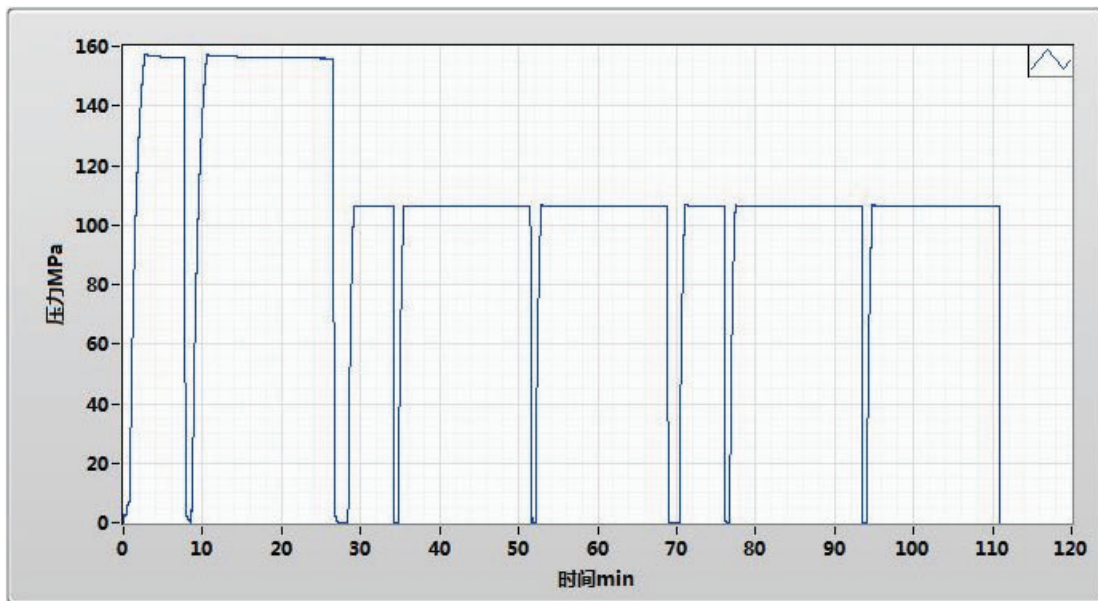
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F003	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	156.04	4.0	0.73
2	156.87	155.93	15.0	0.94
3	106.42	106.37	4.0	0.04
4	106.45	106.27	15.0	0.17
5	106.47	106.26	15.0	0.21
6	106.51	106.36	4.0	0.14
7	106.45	106.19	15.0	0.25
8	106.51	106.34	15.0	0.17



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2023.01.06



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F004

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.: AP050F004

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer	PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications													
	1392	HYDRAULIC GATE VALVE	PFFY105/103AL-00	AP050F004	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st													
P/N	Parts	Description		Melting Practice				Heat Treatment				Temper(2)												
				Material Spec Standards	Qty.	Austenized		Quenched																
		H.T. No.	Serial No.			Temp (°C)	Time (min)	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)											
		BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	1	AP050026	Forging	860	3.5H	WATER	28	38	680	5.0H	AIR	/	/						
		BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050060	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/						
		STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050091	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	5.2H	AIR						
		BALANCE STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050077	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	5.2H	AIR						
		GATE	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	1	AP050156	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	5.5H	AIR						
BODY BUSHING	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	2	AP050151 AP050180	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	5.5H	AIR								
TAIL BONNET	22106193C	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050015	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/								
Melt No.	H.T. No.	Chemical Analysis (wt. %)														Physical Properties				Impact(-46°C)		Equipment Type		
1027400A	RC-12-12	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongati on (%)	ROA (%)	Impact direction (Transverse)	Hardness	JBW-300B/ WDW-300
22E105071	RC-12-09	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
YX2208-2234	HY221113-5	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	/	ø 80x200	QTC	1067	940	19.7	58.5	44/37/49	29HRC	JBW-300B/ WDW-300
2215800290	221110102Q2	0.022	0.50	0.44	0.031	0.003	15.72	4.15	/	/	/	/	3.60	0.243	/	ø 80x200	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



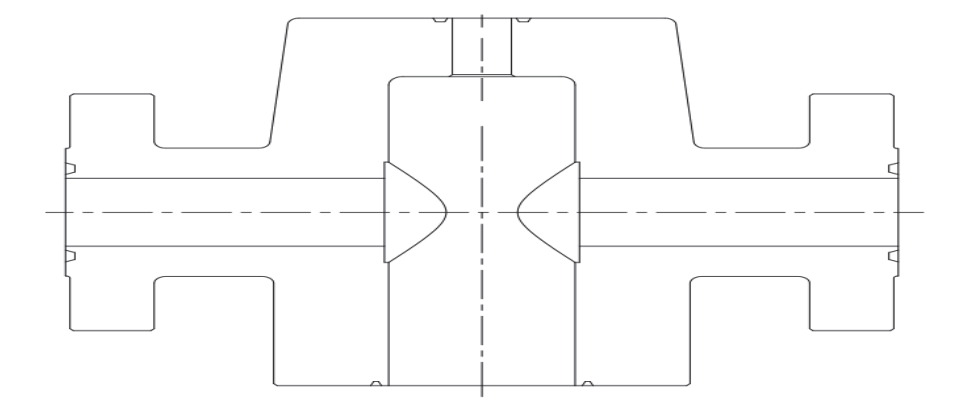
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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-1223-00 2
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	AP050026	RC-12-12	212HBW/212HBW 211HBW/214HBW				

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		



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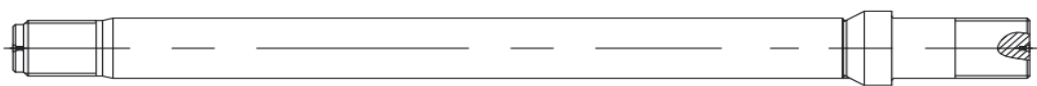
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[illegible]

Sketch:



Acceptable Hardness:

27HRC-33HRC

Approved By:

Examined By:

Judgments:

[V] Conforms

[] Does Not Conform

Xin zheng

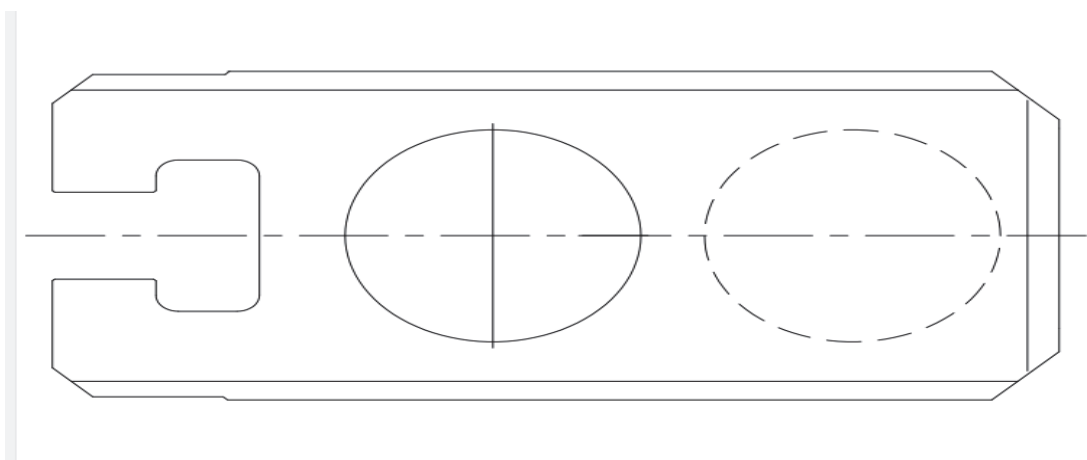
Zhengguo Yao



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[illegible]

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		



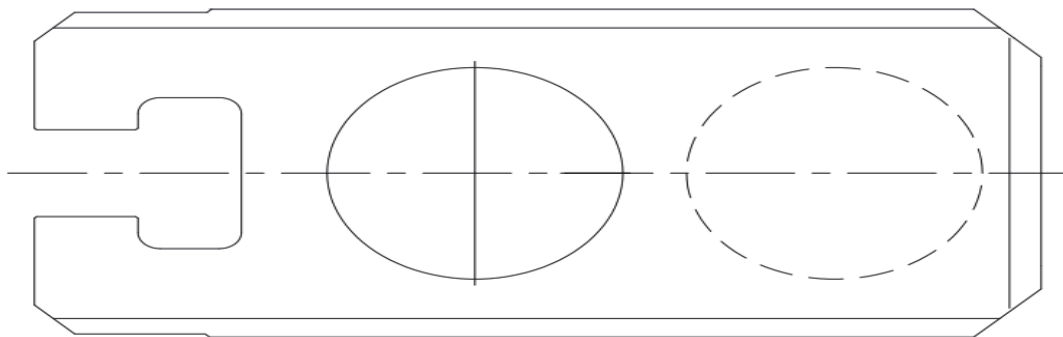
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-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	AP050156	221110102Q2	1255HV				

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	AP050151	221110102Q2	95HRB					
2	AP050180	221110102Q2	98HRB					

Sketch:



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



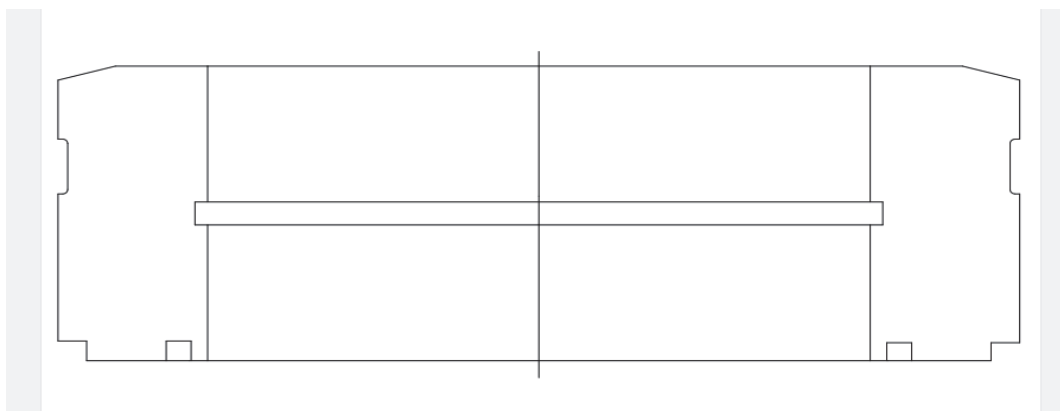
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HARDNESS TEST REPORT

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	AP050151	221110102Q2	1315HV				
2	AP050180	221110102Q2	1307HV				

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		



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[illegible]

Technical drawing of a shaft. The shaft has a central section with a keyway. A hole is located on the right side of the shaft. The drawing includes a cross-section view of the hole, showing its diameter and position relative to the shaft's centerline.

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



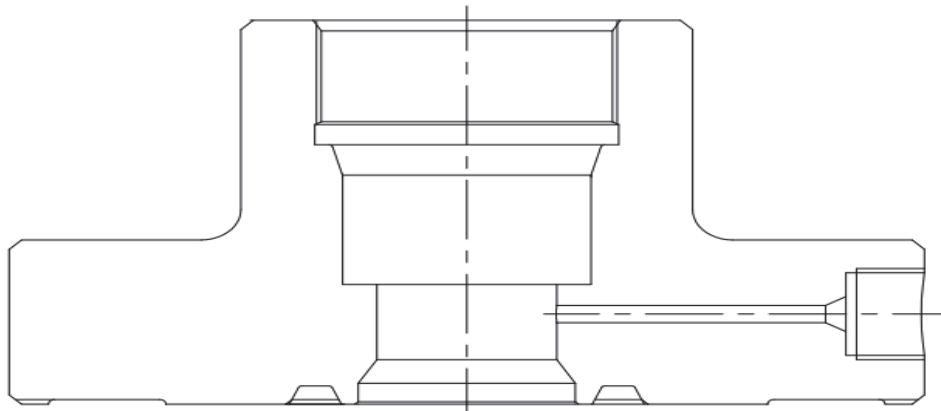
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:			
Drawing #:		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	AP050015	RC-12-09	224HBW/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

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	AP050026	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II			

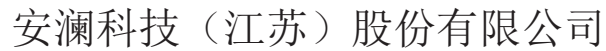


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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1
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	AP050060	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



ULTRASONIC EXAMINATION REPORT

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



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-1214-00 1
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	AP050077	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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 #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050015	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		

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/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	AP050026	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	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050060	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		



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[illegible]

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050156	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050156	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050151	221110102Q2	Acceptable						
2	AP050180	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		





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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	AP050077	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				



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050015	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		



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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 #:	AP050F004		
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	AP050026	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									
Judgments:					Approved By:		Examined By:		
			[V] Conforms		Xin Zheng		Yifei Ma		
			[] Does Not Conform						



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

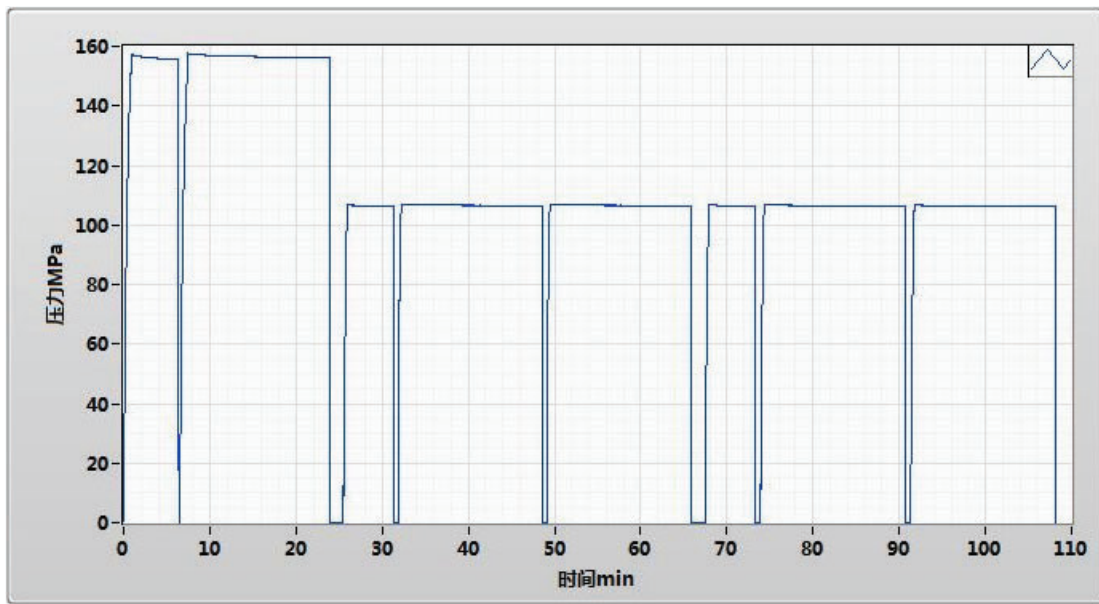
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F004	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	156.41	155.56	4.0	0.85
2	157.16	156.20	15.0	0.95
3	106.52	106.45	4.0	0.07
4	106.70	106.51	15.0	0.20
5	106.68	106.51	15.0	0.17
6	106.54	106.33	4.0	0.21
7	106.67	106.28	15.0	0.39
8	106.54	106.24	15.0	0.30



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2023.01.06



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F005

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



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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.: AP050F005

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications											
		1392	HYDRAULIC GATE VALVE		PFFY105/103AL-00	AP050F005	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st											
P/N	Parts	Description		Material Spec Standards	Qty.	Melting Practice		Austenized		Quenched		Heat Treatment												
		Melt No.	H.T. No.			Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium						
PFFY105/103A L-00	BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	1	AP050031	Forging	860	3.5H	WATER	28	38	680	5.0H	AIR	/	/							
	BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050046	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/							
	STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050100	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	5.2H	AIR							
	BALANCE STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050072	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	5.2H	AIR							
	GATE	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	1	AP050152	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	5.5H	AIR							
	BODY BUSHING	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	2	AP050166 AP050175	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	5.5H	AIR							
	TAIL BONNET	22106193C	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050010	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/							
Melt No.	H.T. No.	Chemical Analysis (wt. %)											Physical Properties				Impact (-46°C)		Equipment Type					
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongati on (%)	ROA (%)	Impact direction (Transverse)	Hardness	
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	/	ø 80x200	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	/	ø 80x200	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



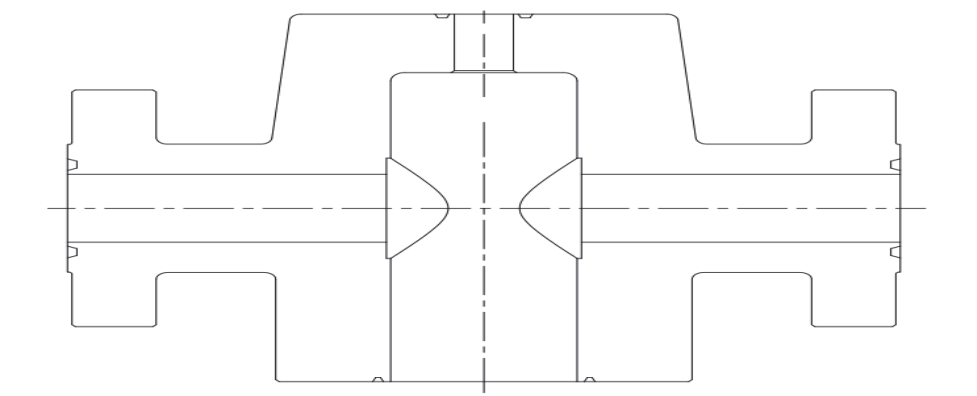
安澜科技（江苏）股份有限公司

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-1225-00 3
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	AP050031	RC-12-12	217HBW/220HBW 220HBW/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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



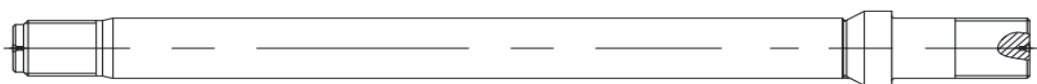
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A 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	AP050100	HY221113-5	31HRC					

Sketch:



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



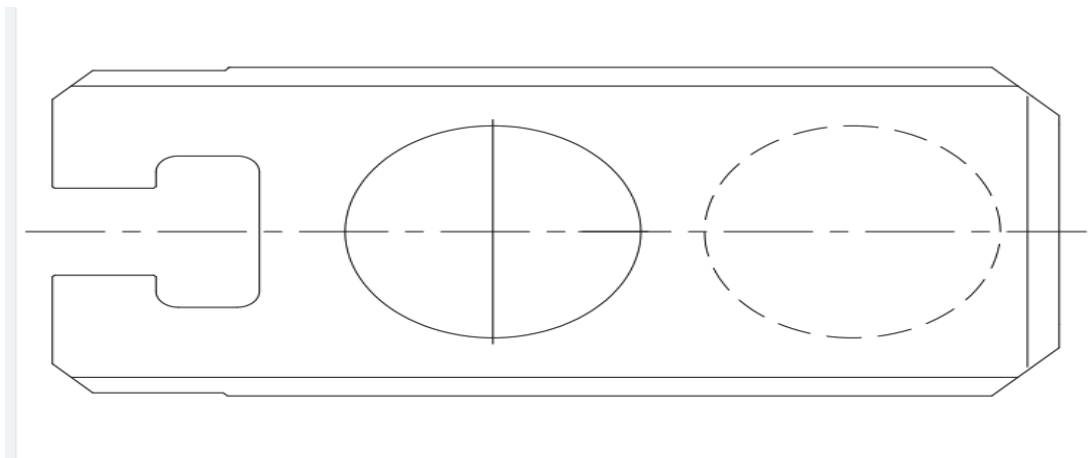
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:		
Drawing #:	PFFY105/103A 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	AP050152	221110102Q2	219HBW					

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		



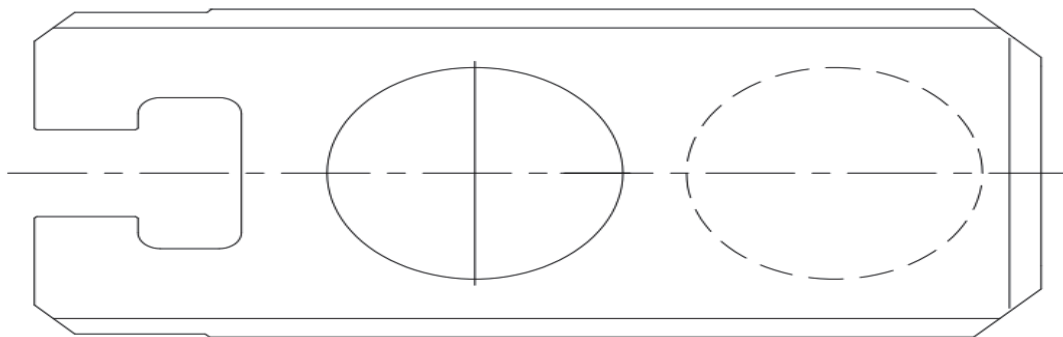
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-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	AP050152	221110102Q2	1317HV				

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		



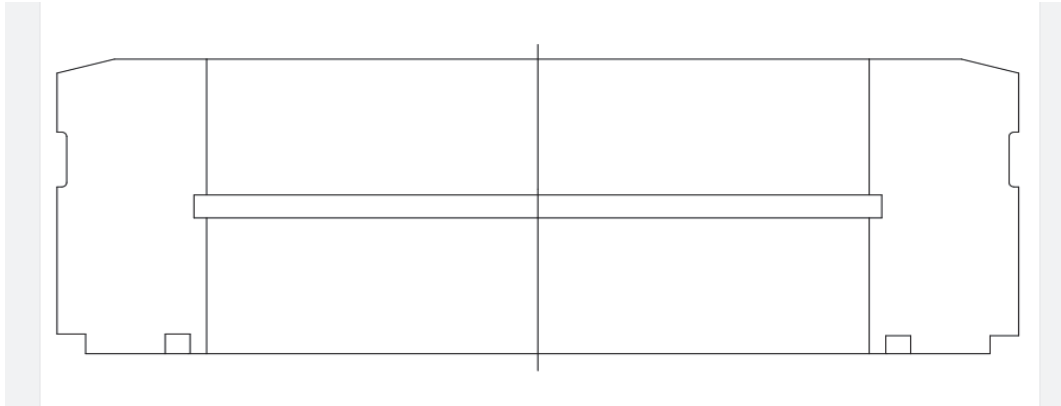
安澜科技（江苏）股份有限公司

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	AP050166	221110102Q2	96HRB					
2	AP050175	221110102Q2	98HRB					

Sketch:



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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

A technical drawing of a rectangular object, possibly a cross-section of a beam or a structural component. The drawing is symmetrical about a central vertical line. It features a central horizontal bar that spans most of the width. The ends of the object are slightly wider than the central part, with small rectangular protrusions on the outer edges. The drawing is composed of simple black lines on a white background.

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050072	HY221113-5	30HRC						
Sketch:									
Method Used:									
Acceptable Hardness:		27HRC-33HRC		Approved By:			Examined By:		
Judgments:		[V] Conforms		Xin zheng			Zhengguo Yao		
		[] Does Not Conform							



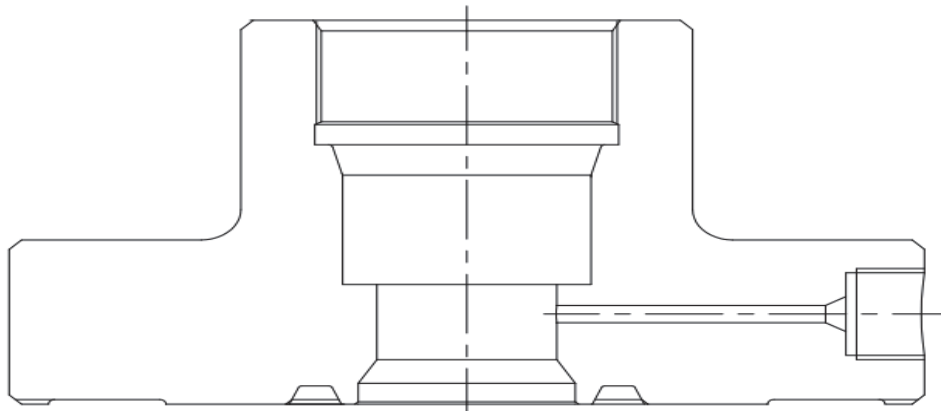
安澜科技（江苏）股份有限公司

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	AP050010	RC-12-09	226HBW/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

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	AP050031	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II			



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1
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	AP050046	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



ULTRASONIC EXAMINATION REPORT

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



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	AP050072	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st			Approved by:	Xin Zheng
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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 #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050010	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		

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/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	AP050031	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		

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/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	AP050046	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050100	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050152	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050152	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050166	221110102Q2	Acceptable						
2	AP050175	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		



LIQUID PENETRATE EXAMINATION

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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	AP050072	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				

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/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	AP050010	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 #:	AP050F005		
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	AP050031	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									
Judgments:					Approved By:		Examined By:		
			[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

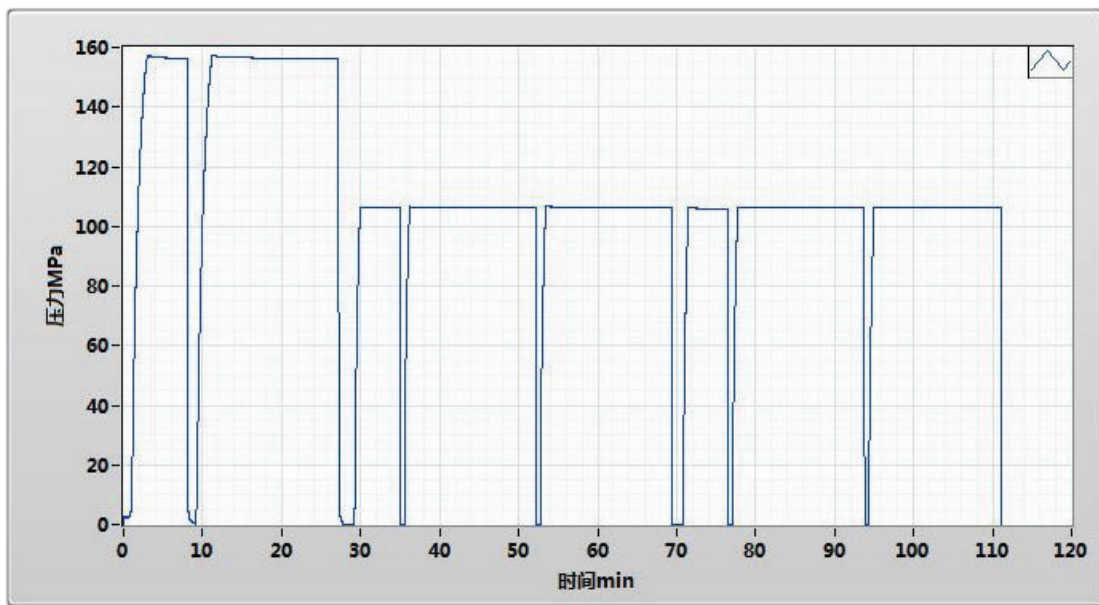
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F005	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	156.11	4.0	0.72
2	156.96	156.08	15.0	0.88
3	106.22	106.14	4.0	0.08
4	106.47	106.28	15.0	0.19
5	106.56	106.39	15.0	0.17
6	106.04	105.87	4.0	0.17
7	106.37	106.10	15.0	0.27
8	106.28	106.06	15.0	0.22



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



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F006

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.: AP050F006

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications											
		1392	HYDRAULIC GATE VALVE		PFFY105/103AL-00	AP050F006	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st											
P/N	Parts	Description		Material Spec Standards	Qty.	Melting Practice		Austenized		Quenched		Temper(1)		Temper(2)										
		Melt No.	H.T. No.			Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Time (min)	Medium							
PFFY105/103A L-00	BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	1	AP050027	Forging	860	3.5H	WATER	28	38	680	5.0H	AIR	/	/	/						
	BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050058	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/	/						
	STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050093	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	AP050071	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	AP050157	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	AP050172 AP050177	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	AP050003	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/	/						
Chemical Analysis (wt. %)																								
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)	Elongati on (%)	ROA (%)	Impact(-46°C) 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	/	ø 80x200	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	/	ø 80x200	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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



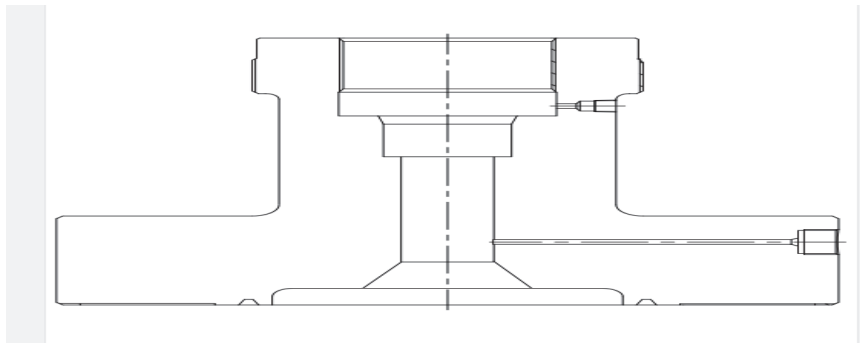
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050058	RC-12-09	224HBW/224HBW				

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		



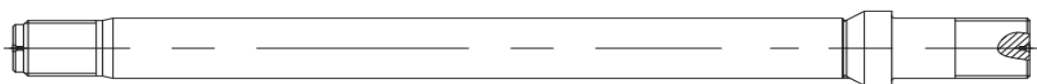
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050093	HY221113-5	30HRC					

Sketch:



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



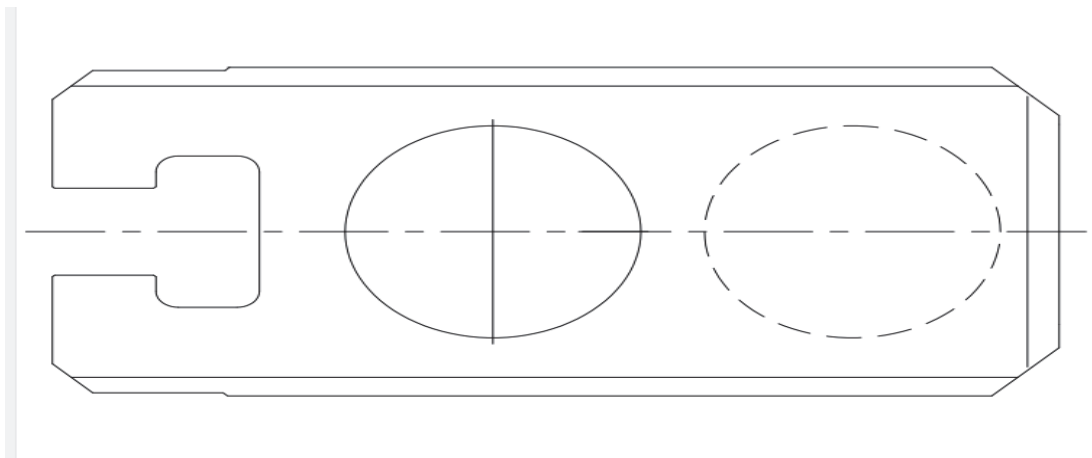
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A 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	AP050157	221110102Q2	213HBW				

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		



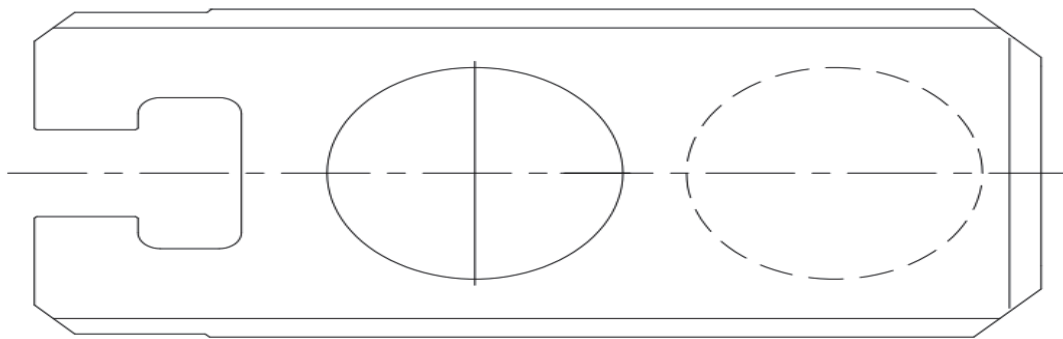
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-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	AP050157	221110102Q2	1270HV					

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		



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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	AP050172	221110102Q2	97HRB				
2	AP050177	221110102Q2	98HRB				

Sketch:



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



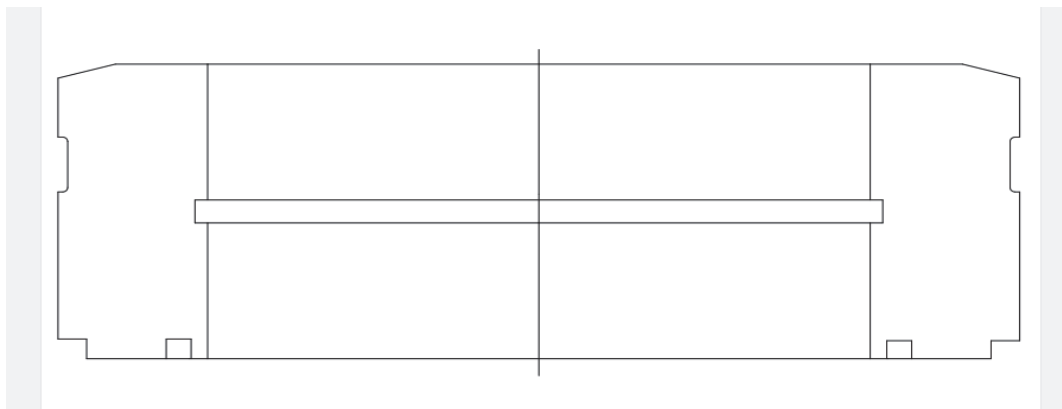
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	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	AP050172	221110102Q2	1309HV					
2	AP050177	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		



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[illegible]

Technical drawing of a shaft. The shaft has a central section with a keyway. A hole is located on the right side of the shaft. The drawing includes a dashed line indicating the center of the shaft.

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



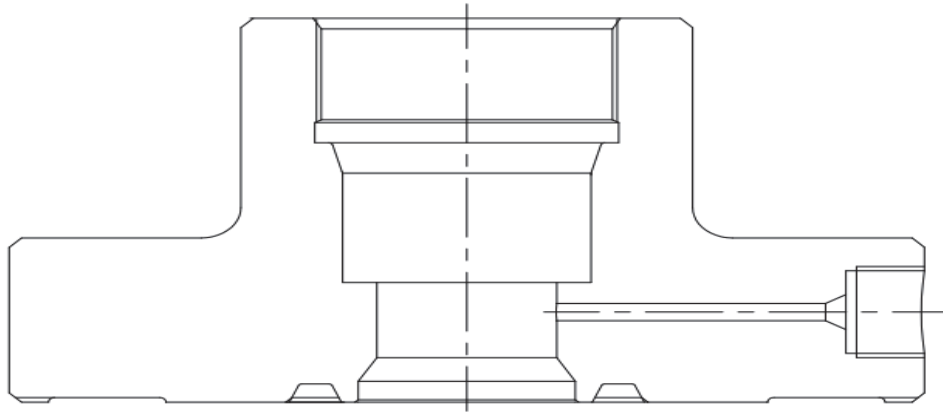
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HARDNESS TEST REPORT

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	AP050003	RC-12-09	218HBW/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		



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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	AP050027	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II			



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1
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	AP050058	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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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	AP050093	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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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-1214-00 1
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	AP050071	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050003	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050027	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050058	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050093	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	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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:		$\geq 1000\text{Uw/cm}^2$	
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	AP050157	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050172	221110102Q2	Acceptable						
2	AP050177	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050172	221110102Q2	Acceptable					
2	AP050177	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			



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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	AP050071	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				



MAGNETIC PARTICLE INSPECTION REPORT

Inspection Coverage:

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:		1392		Date:		2023.01					
Drawing #:		PFFY105/103 AL-00		Specification:		API6A-21st		API Monogram:		6A-2074		Report #:		AP050F006	
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	AP050027	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													



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

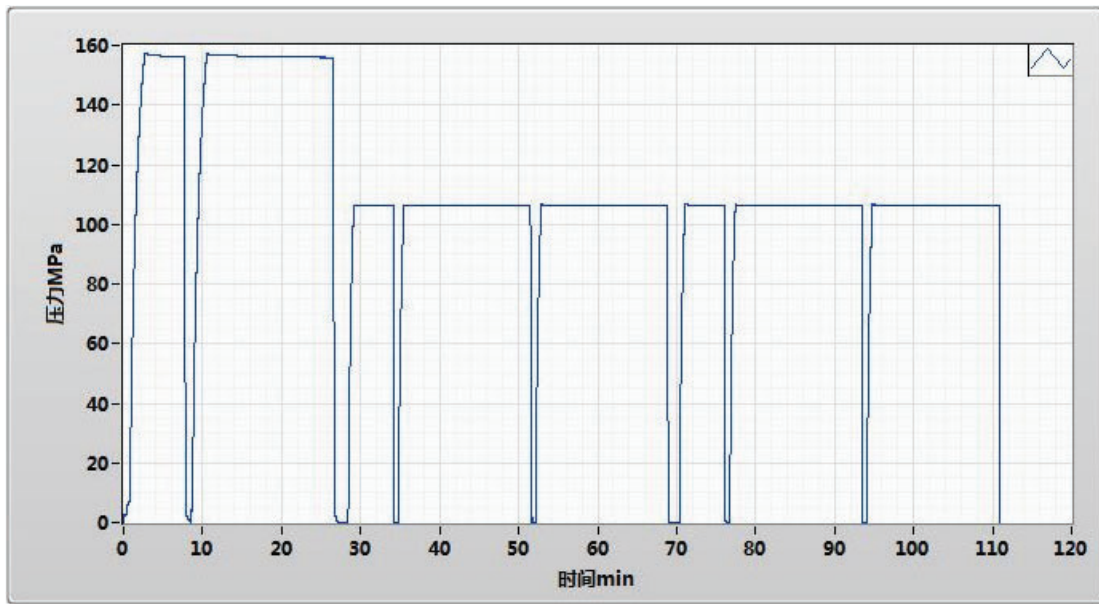
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F006	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	156.04	4.0	0.73
2	156.87	155.93	15.0	0.94
3	106.42	106.37	4.0	0.04
4	106.45	106.27	15.0	0.17
5	106.47	106.26	15.0	0.21
6	106.51	106.36	4.0	0.14
7	106.45	106.19	15.0	0.25
8	106.51	106.34	15.0	0.17



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2023.01.06



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F007

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



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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.: AP050F007

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications											
		1392	HYDRAULIC GATE VALVE		PFFY105/103AL-00	AP050F007	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st											
P/N	Parts	Description		Melting Practice			Austenized		Quenched		Temper(1)			Temper(2)										
		Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium									
		BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	1	AP050033	Forging	860	3.5H	WATER	28	38	680	5.0H	AIR	/	/						
		BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050047	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/						
		STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050092	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	5.2H						
		BALANCE STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050066	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	5.2H						
		GATE	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	1	AP050145	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H						
		BODY BUSHING	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	2	AP050163 AP050153	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H						
		TAIL BONNET	22106193C	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050014	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/						
		Chemical Analysis (wt. %)																						
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)	Elongati on (%)	ROA (%)	Impact(-46°C) 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	/	ø 80x200	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	/	ø 80x200	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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Technical drawing of a mechanical component, likely a valve or actuator, showing a cross-section view. The drawing includes a central vertical shaft with a flange, a horizontal pipe connection on the right, and a base. A dashed line indicates the center of rotation.

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 #:	PFFY105/103A 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	AP050092	HY221113-5	30HRC					

Sketch:



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



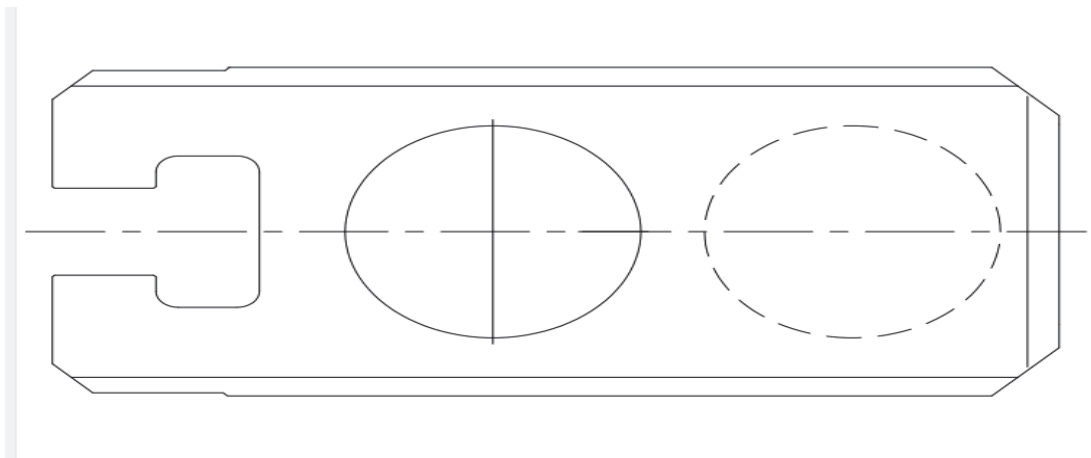
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A 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	AP050145	221110102Q2	210HBW				

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		



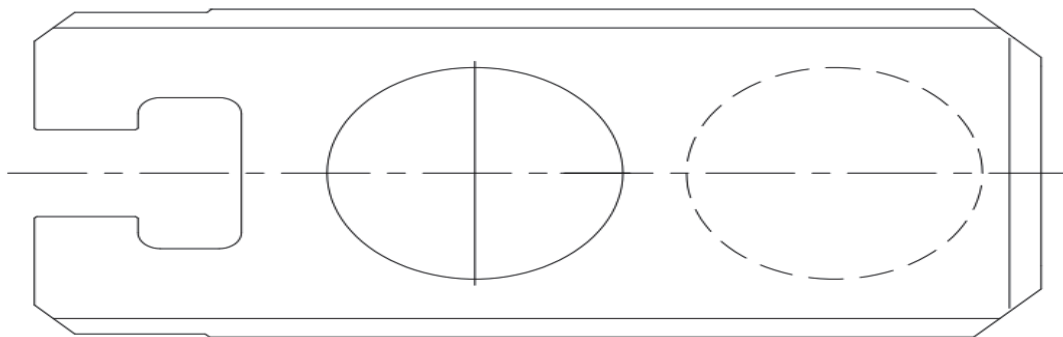
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HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-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	AP050145	221110102Q2	1299HV				

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		



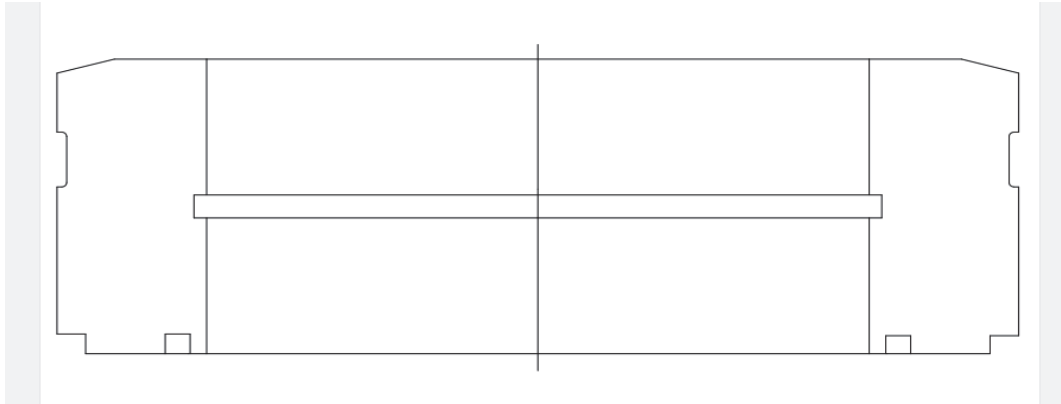
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HARDNESS TEST REPORT

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	AP050163	221110102Q2	98HRB				
2	AP050153	221110102Q2	95HRB				

Sketch:



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



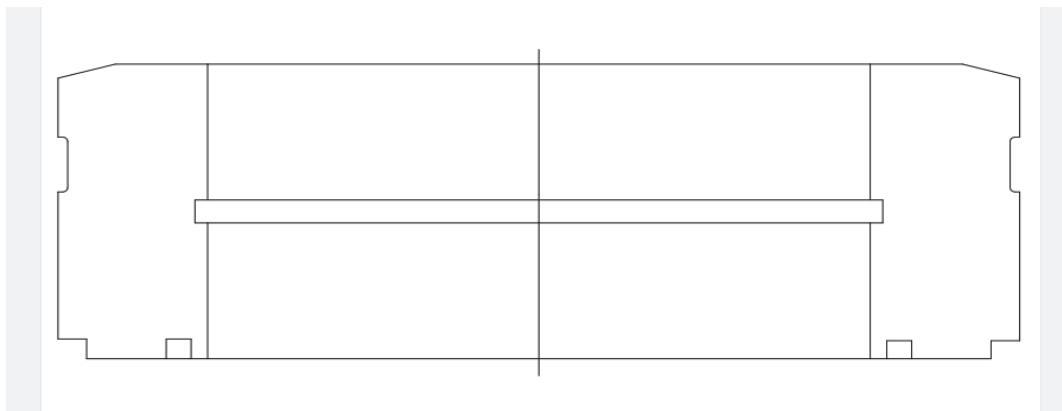
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	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	AP050163	221110102Q2	1265HV					
2	AP050153	221110102Q2	1274HV					

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050066	HY221113-5	29HRC				
Sketch:							
The sketch shows a long cylindrical component, identified as a balance stem. It features a threaded section at one end and a wider, possibly flanged or knurled section at the other. A dashed centerline runs through the middle of the cylinder. The drawing is presented in a perspective view against a light gray background.							
Method Used:							
Acceptable Hardness:		27HRC-33HRC		Approved By:		Examined By:	
Judgments:		[V] Conforms		Xin zheng		Zhengguo Yao	
		[] Does Not Conform					



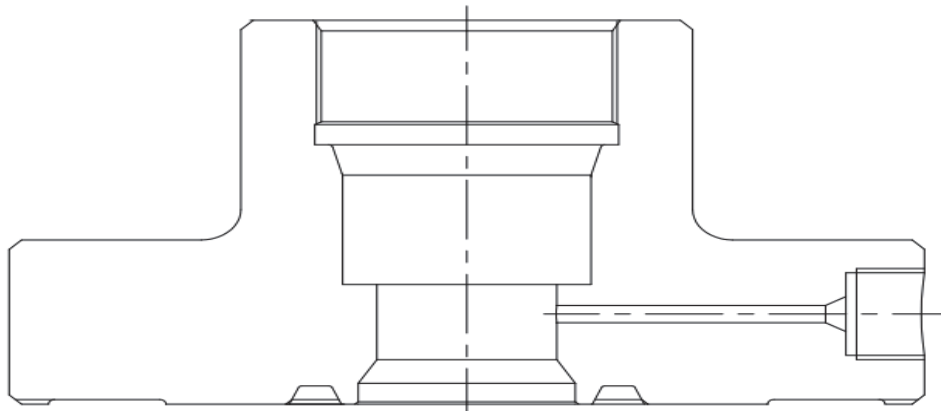
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:			
Drawing #:		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	AP050014	RC-12-09	220HBW/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

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	AP050033	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+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 #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1		
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	AP050047	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050092	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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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-1214-00 1
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	AP050066	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050014	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		

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/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	AP050033	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	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050047	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050092	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		



MAGNETIC PARTICLE INSPECTION REPORT

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050145	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050163	221110102Q2	Acceptable						
2	AP050153	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050163	221110102Q2	Acceptable					
2	AP050153	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050066	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			

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/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	AP050014	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 #:	AP050F007		
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	AP050033	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									
Judgments:					Approved By:		Examined By:		
			[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

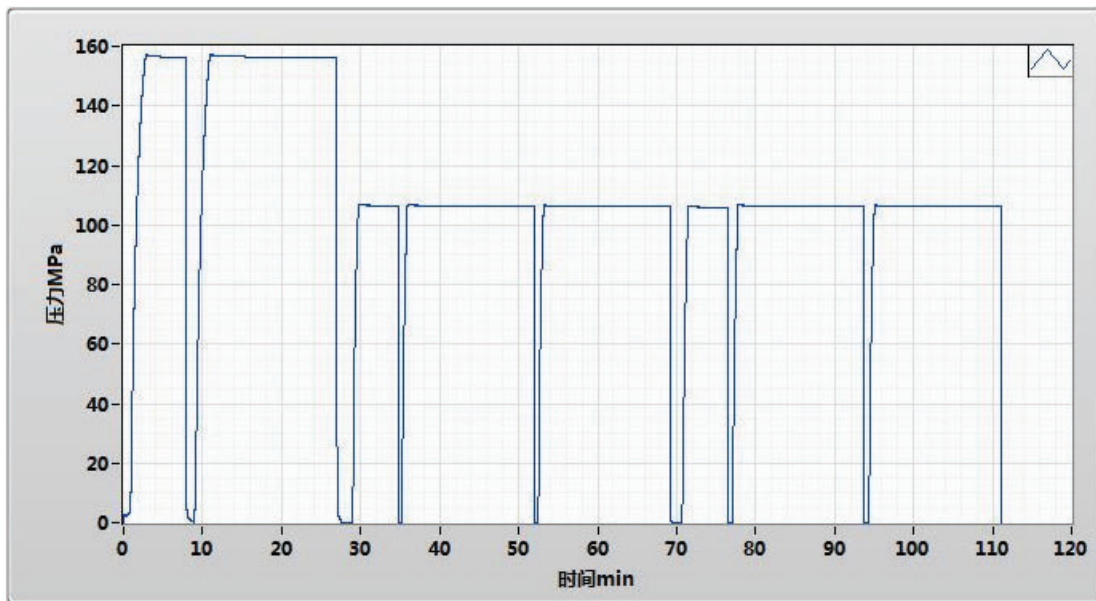
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F007	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	156.74	156.03	4.0	0.72
2	156.90	156.01	15.0	0.89
3	106.57	106.51	4.0	0.06
4	106.59	106.41	15.0	0.18
5	106.49	106.15	15.0	0.34
6	106.05	105.87	4.0	0.18
7	106.55	106.22	15.0	0.33
8	106.48	106.11	15.0	0.37



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2023.01.06



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F008

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
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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.: AP050F008

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications											
		1392	HYDRAULIC GATE VALVE		PFFY105/103AL-00	AP050F008	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st											
P/N	Parts	Description		Material Spec Standards	Qty.	Melting Practice		Austenized		Quenched		Heat Treatment		Temper(2)										
		Melt No.	H.T. No.			Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)		Time (min)	Medium	Temp (°C)							
PFFY105/103A L-00	BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	1	AP050039	Forging	860	3.5H	WATER	28	38	680	5.0H	AIR	/	/							
	BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050049	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/							
	STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050082	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	5.2H							
	BALANCE STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050074	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	5.2H							
	GATE	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	1	AP050155	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H							
	BODY BUSHING	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	2	AP050152 AP050179	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	5.5H							
	TAIL BONNET	22106193C	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050004	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/							
Chemical Analysis (wt. %)																								
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)	Elongati on (%)	ROA (%)	Impact(-46°C) 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	/	ø 80x200	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	/	ø 80x200	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.

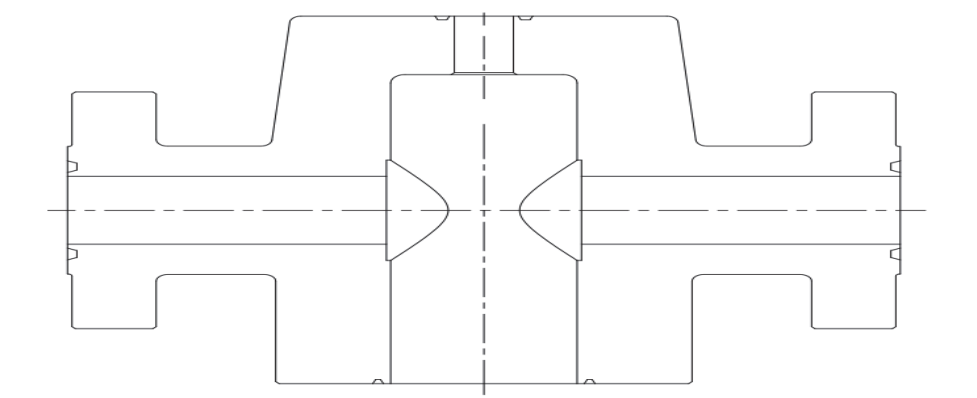
Xin Zheng

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

HARDNESS TEST REPORT

[illegible]

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



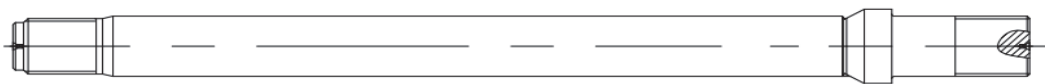
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A 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	AP050082	HY221113-5	29HRC					

Sketch:



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



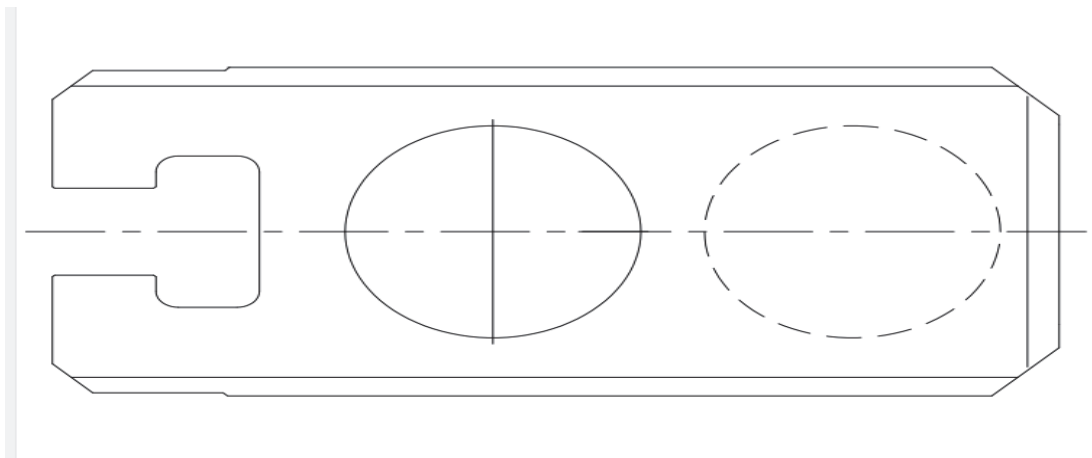
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:		
Drawing #:	PFFY105/103A 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	AP050155	221110102Q2	226HBW					

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		



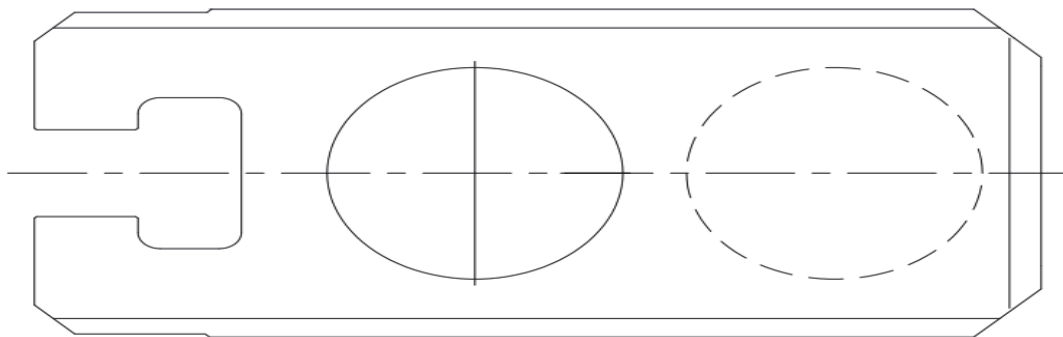
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-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	AP050155	221110102Q2	1277HV				

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		



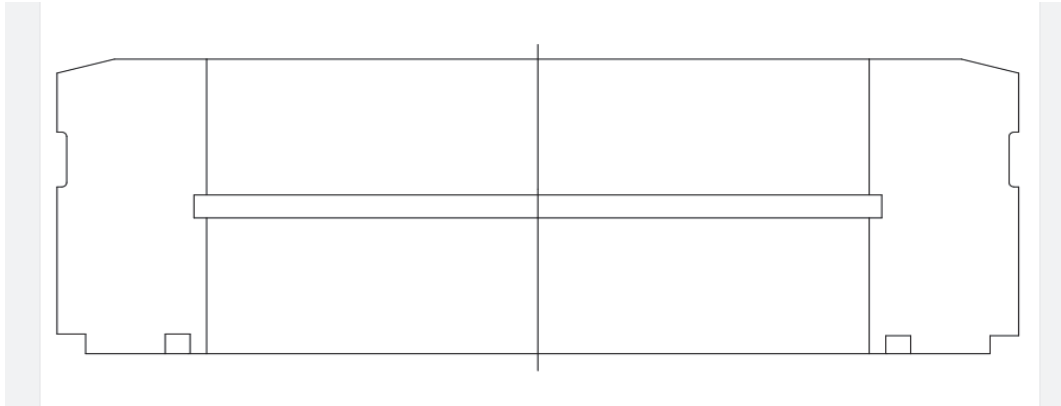
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050152	221110102Q2	96HRB				
2	AP050179	221110102Q2	95HRB				

Sketch:



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



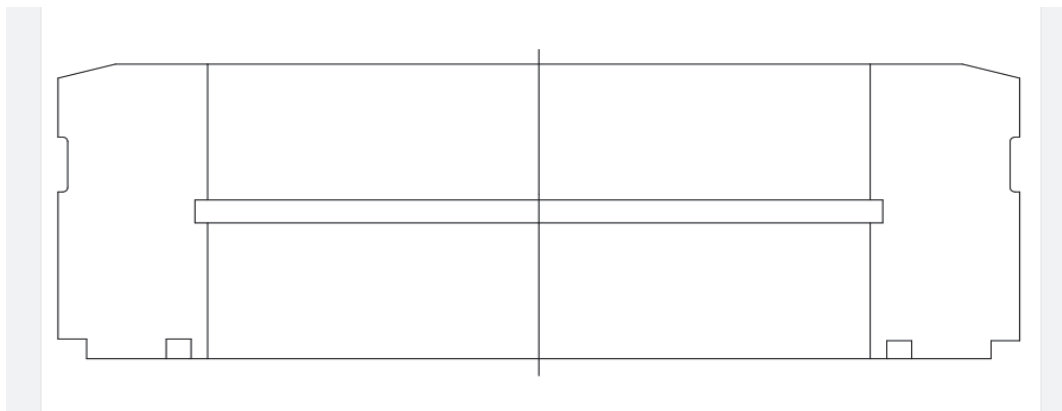
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	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	AP050152	221110102Q2	1277HV				
2	AP050179	221110102Q2	1265HV				

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Technical drawing of a shaft. The shaft has a central section with a keyway. The left end has a hole with a diameter of 10 mm. The right end has a hole with a diameter of 12 mm. The shaft is shown in a perspective view with a dashed line indicating the central axis.

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



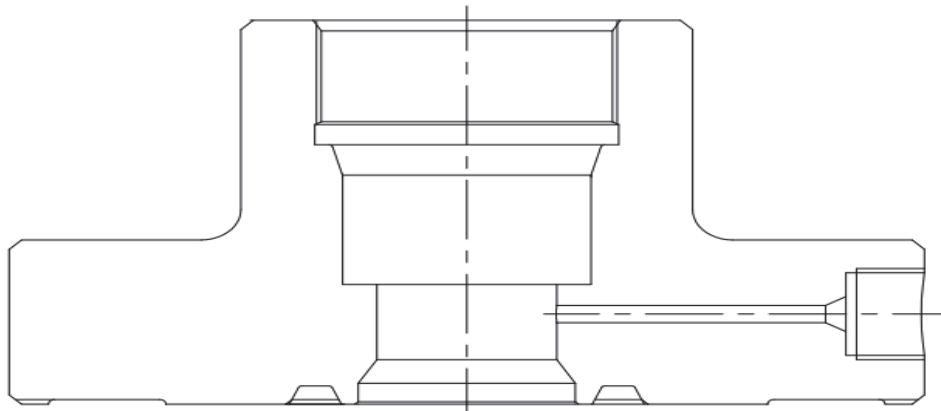
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:			
Drawing #:		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	AP050004	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	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	AP050039	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+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 #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1
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	AP050049	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050082	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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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-1214-00 1
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	AP050074	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050004	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		

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/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	AP050039	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	

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/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	AP050049	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		



LIQUID PENETRATE EXAMINATION

20



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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:		$\geqslant 1000\text{Uw/cm}^2$	
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					
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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050155	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050152	221110102Q2	Acceptable						
2	AP050179	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050152	221110102Q2	Acceptable					
2	AP050179	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050074	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050004	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

Customer:				Customer PO#:		1392		Date:		2023.01					
Drawing #:		PFFY105/103 AL-00		Specification:		API6A-21st		API Monogram:		6A-2074		Report #:		AP050F008	
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	AP050039	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													



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

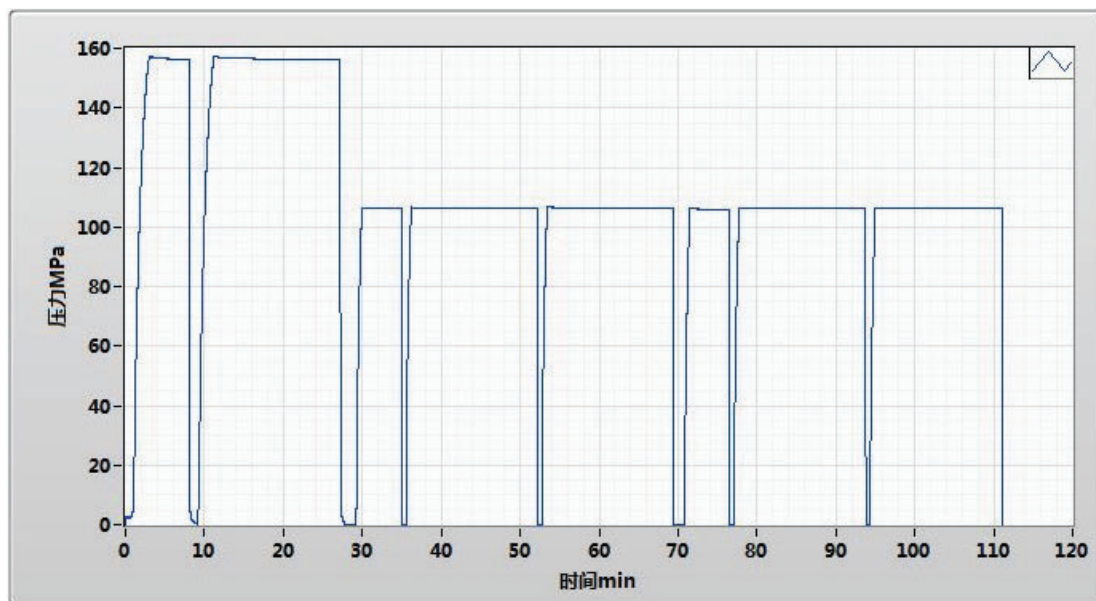
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F008	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	156.11	4.0	0.72
2	156.96	156.08	15.0	0.88
3	106.22	106.14	4.0	0.08
4	106.47	106.28	15.0	0.19
5	106.56	106.39	15.0	0.17
6	106.04	105.87	4.0	0.17
7	106.37	106.10	15.0	0.27
8	106.28	106.06	15.0	0.22



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



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F009

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



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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.: AP050F009

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications																																																																																																																																																																																																																																																																																																																																																																																																										
		1392	HYDRAULIC GATE VALVE		PFFY105/103AL-00	AP050F009	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st																																																																																																																																																																																																																																																																																																																																																																																																										
P/N	Parts	Description		Material Spec Standards	Qty.	Melting Practice		Austenized		Quenched		Temper(1)		Heat Treatment		Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (

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



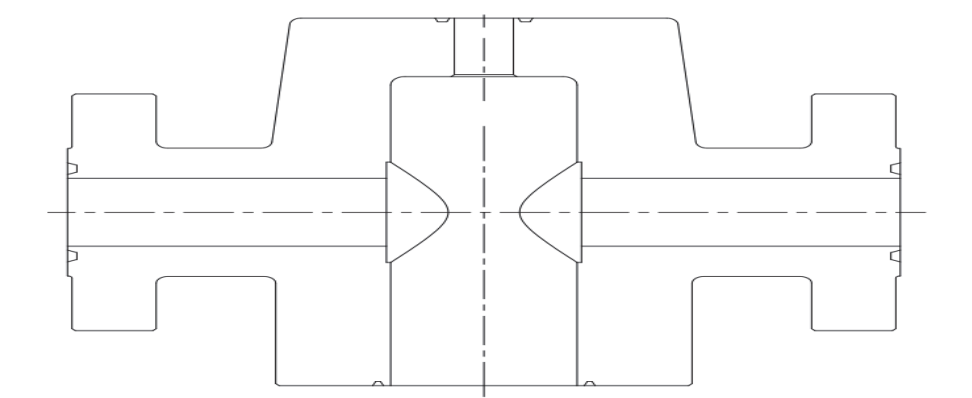
安澜科技（江苏）股份有限公司

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	AP050021	RC-12-12	214HBW/212HBW 214HBW/228HBW				

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		



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[illegible]



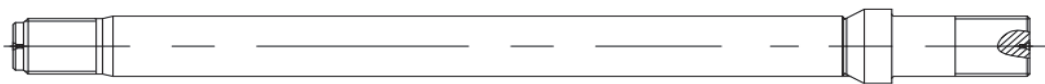
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050084	HY221113-5	29HRC					

Sketch:



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



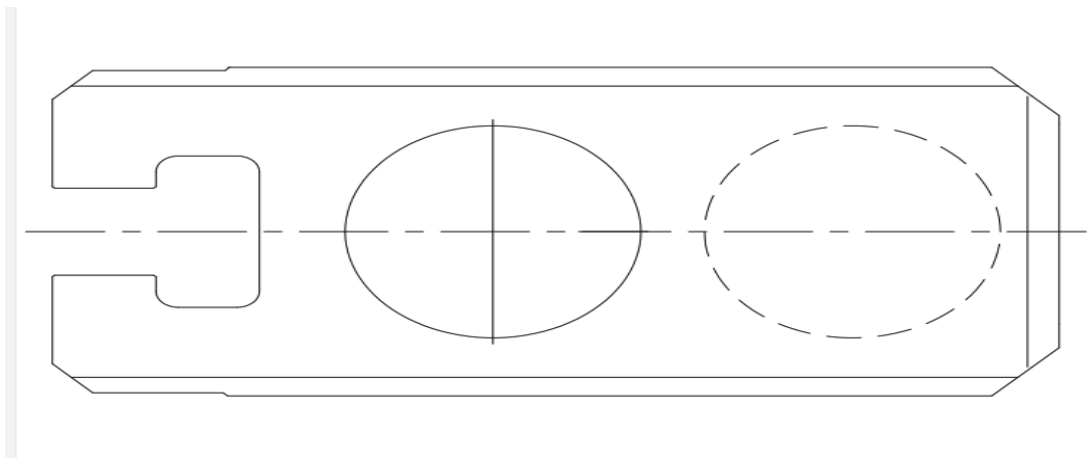
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A 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	AP050146	221110102Q2	230HBW				

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		



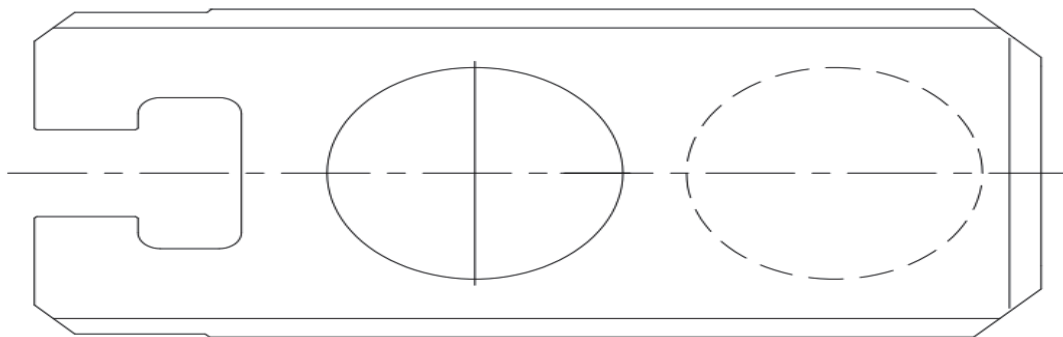
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-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	AP050146	221110102Q2	1257HV				

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	AP050158	221110102Q2	96HRB				
2	AP050150	221110102Q2	95HRB				

Sketch:



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



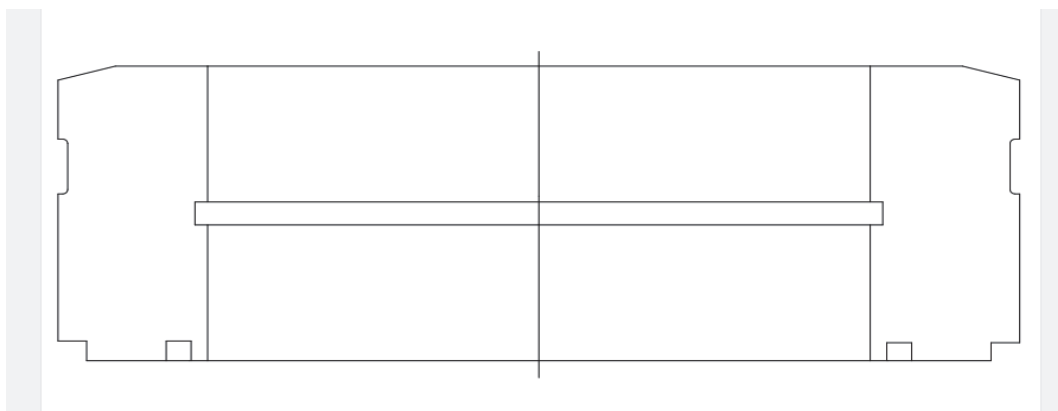
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	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	AP050158	221110102Q2	1292HV				
2	AP050150	221110102Q2	1282HV				

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Technical drawing of a shaft. The shaft has a central section with a keyway. A hole is located on the right side of the shaft. The drawing includes a cross-section view of the hole, showing its diameter and position relative to the shaft's centerline.

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



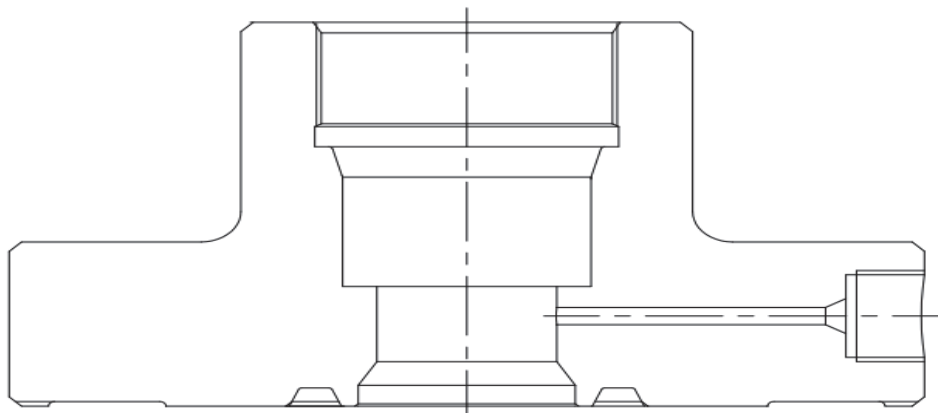
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:		
Drawing #:		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	AP050005	RC-12-09	224HBW/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	AP050021	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II			

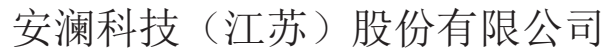


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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1
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	AP050053	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



ULTRASONIC EXAMINATION REPORT

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



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-1214-00 1	
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	AP050067	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident. #:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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 #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050005	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



MAGNETIC PARTICLE INSPECTION REPORT

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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/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	AP050053	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		



LIQUID PENETRATE EXAMINATION

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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:		$\geq 1000\text{Uw/cm}^2$	
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	AP050146	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050146	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050158	221110102Q2	Acceptable						
2	AP050150	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050158	221110102Q2	Acceptable					
2	AP050150	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050067	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050005	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 #:	AP050F009		
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	AP050021	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

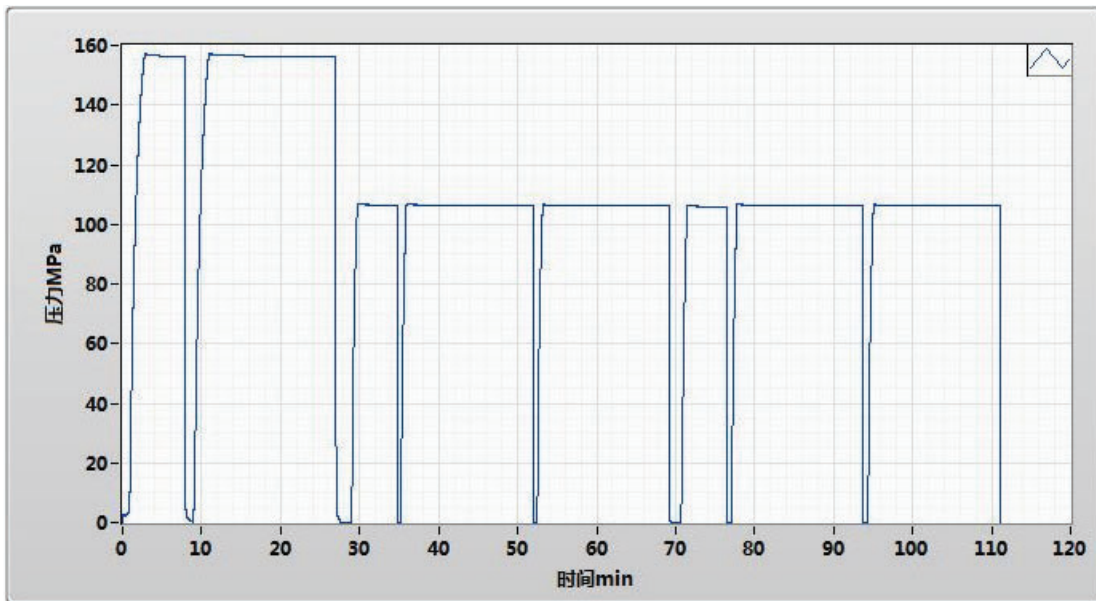
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F009	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	156.74	156.03	4.0	0.72
2	156.90	156.01	15.0	0.89
3	106.57	106.51	4.0	0.06
4	106.59	106.41	15.0	0.18
5	106.49	106.15	15.0	0.34
6	106.05	105.87	4.0	0.18
7	106.55	106.22	15.0	0.33
8	106.48	106.11	15.0	0.37



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Yifei Ma	Xin Zheng	Zhicheng Feng	2023.01.06



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F010

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.: AP050F010

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications										
		1392	HYDRAULIC GATE VALVE		PFFY105/103AL-00	AP050F010	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st										
P/N	Parts	Description		Material Spec Standards	Qty.	Melting Practice		Austenized		Quenched		Heat Treatment			Medium	Temper(2)							
		Melt No.	H.T. No.			Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)		Temp (°C)	Time (min)						
PFFY105/103A L-00	BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	1	AP050025	Forging	860	3.5H	WATER	28	38	680	5.0H	AIR	/	/						
	BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050054	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/						
	STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050087	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	AIR						
	BALANCE STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050070	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	AIR						
	GATE	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	1	AP050143	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	AIR						
	BODY BUSHING	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	2	AP050149 AP050143	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	AIR						
	TAIL BONNET	22106193C	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050006	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/						
Melt No.	H.T. No.	Chemical Analysis (wt. %)										Physical Properties				Impact(-46°C) 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	/	/	533	672	QTC	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	/	/	532	675	QTC	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	/	940	1067	QTC	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	/	940	1067	QTC	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	/	/	560	722	QTC	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	/	/	560	722	QTC	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	/	/	530	672	QTC	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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]5



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	AP050087	HY221113-5	29HRC					

Sketch:



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



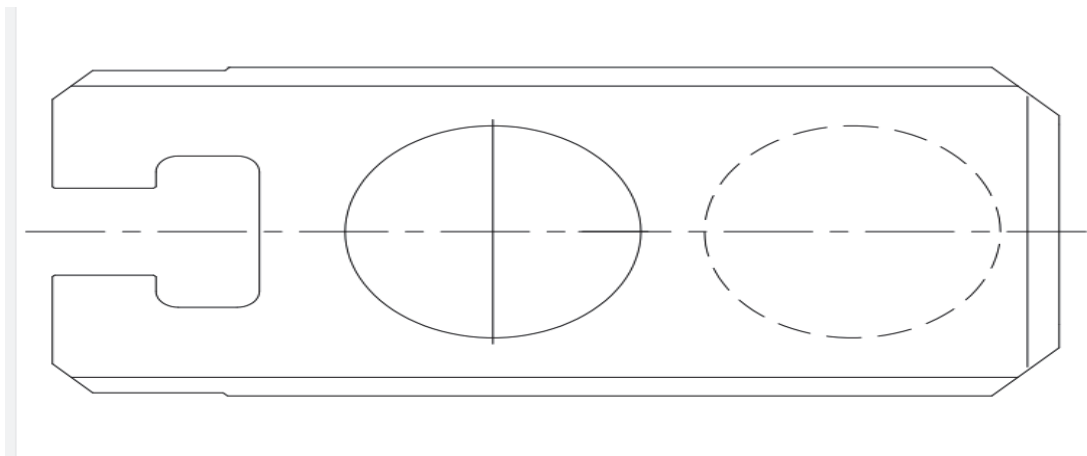
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	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	AP050143	221110102Q2	220HBW				

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		



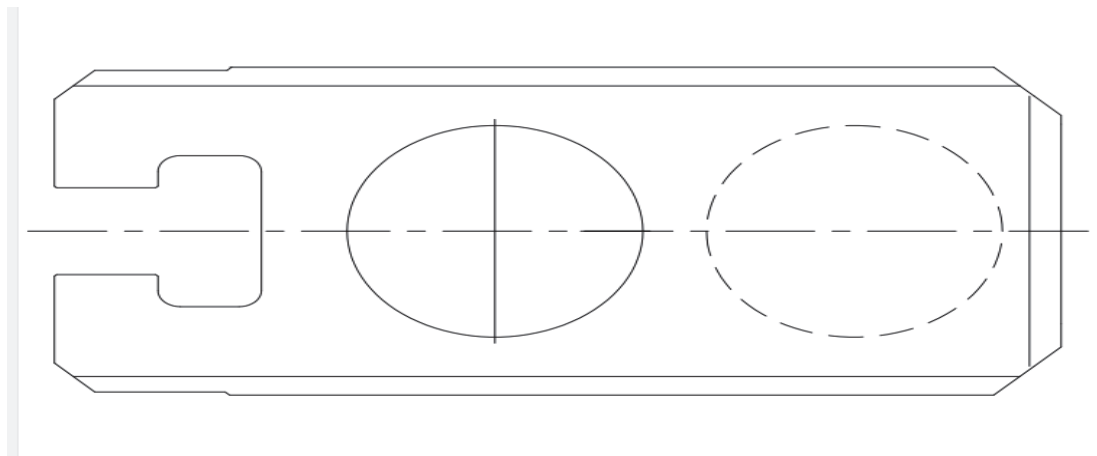
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:		
Drawing #:	PFFY105/103A L-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	AP050143	221110102Q2	1308HV					

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		



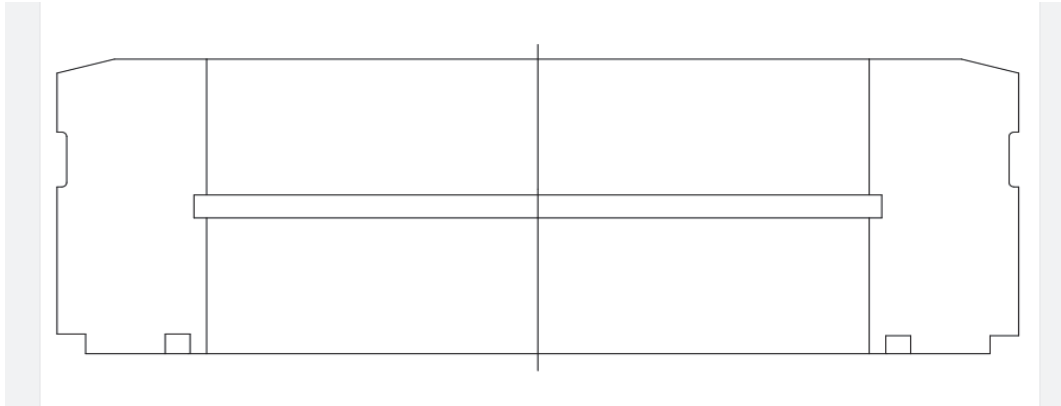
安澜科技（江苏）股份有限公司

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	AP050149	221110102Q2	97HRB					
2	AP050143	221110102Q2	96HRB					

Sketch:



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



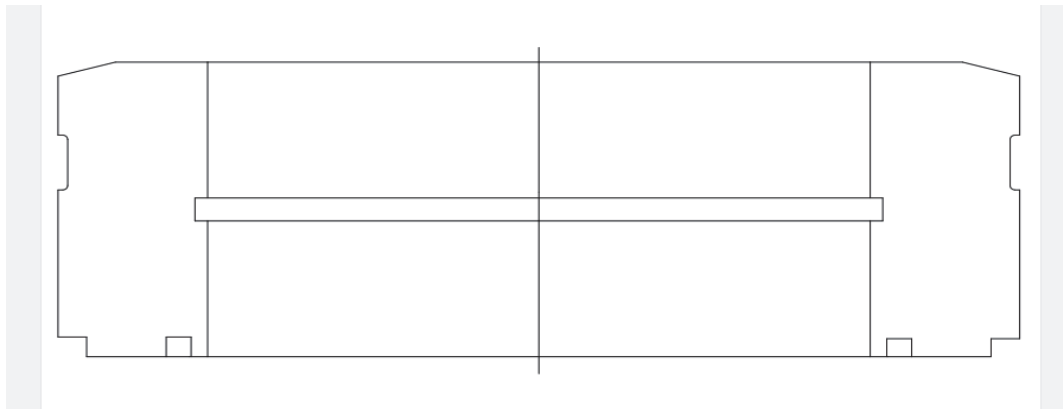
安澜科技（江苏）股份有限公司

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	AP050149	221110102Q2	1285HV				
2	AP050143	221110102Q2	1302HV				

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	AP050070	HY221113-5	30HRC				

Sketch:



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



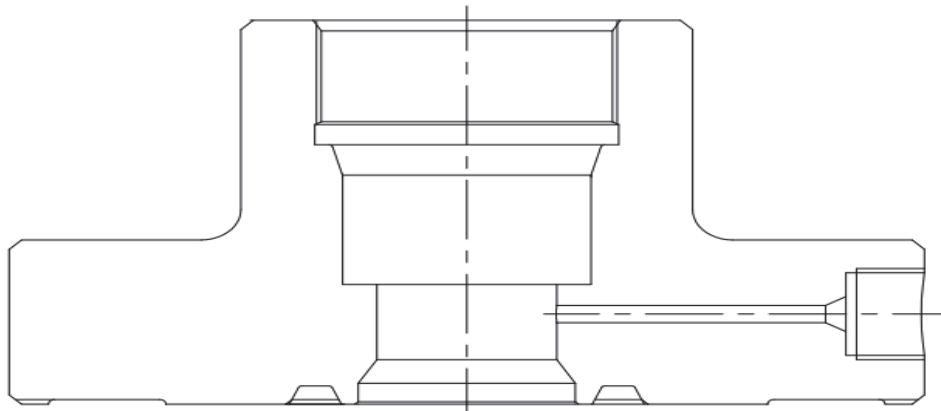
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:			
Drawing #:		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	AP050006	RC-12-09	226HBW/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

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	AP050025	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+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 #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1		
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	AP050054	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050087	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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-1214-00 1
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	AP050070	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident. #:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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 #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050006	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



MAGNETIC PARTICLE INSPECTION REPORT

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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050054	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		

LIQUID PENETRATE EXAMINATION

[illegible]

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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:		$\geq 1000\text{Uw/cm}^2$	
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	AP050143	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050143	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			



MAGNETIC PARTICLE INSPECTION REPORT

23



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050149	221110102Q2	Acceptable					
2	AP050143	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			



LIQUID PENETRATE EXAMINATION

25



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050006	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 #:	AP050F010		
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	AP050025	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

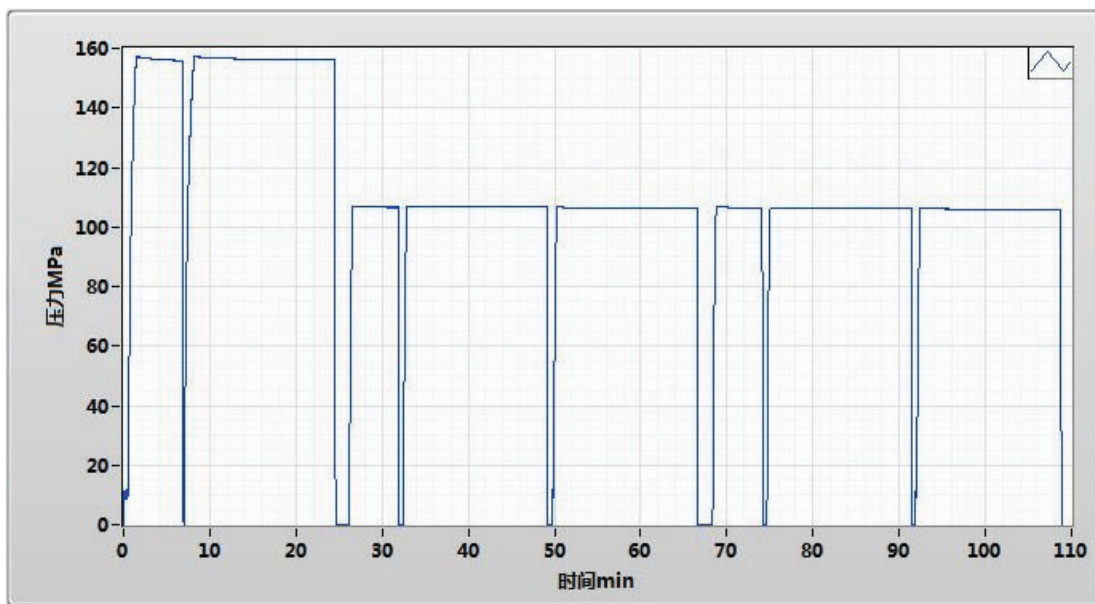
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F010	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	156.62	155.84	4.0	0.78
2	156.92	156.01	15.0	0.91
3	106.64	106.57	4.0	0.07
4	106.89	106.70	15.0	0.19
5	106.51	106.08	15.0	0.43
6	106.58	106.38	4.0	0.21
7	106.37	106.07	15.0	0.31
8	106.14	105.70	15.0	0.44



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



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F011

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.: AP050F011

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications																																																																																																																																																																																																																																																																																																																																																																																																											
		1392	HYDRAULIC GATE VALVE		PFFY105/103AL-00	AP050F011	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st																																																																																																																																																																																																																																																																																																																																																																																																											
P/N	Parts	Description		Material Spec Standards	Qty.	Melting Practice		Austenized		Quenched		Temper(1)		Heat Treatment		Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



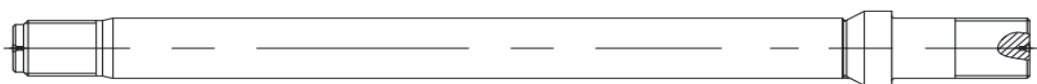
安澜科技（江苏）股份有限公司

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	AP050098	HY221113-5	31HRC					

Sketch:



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



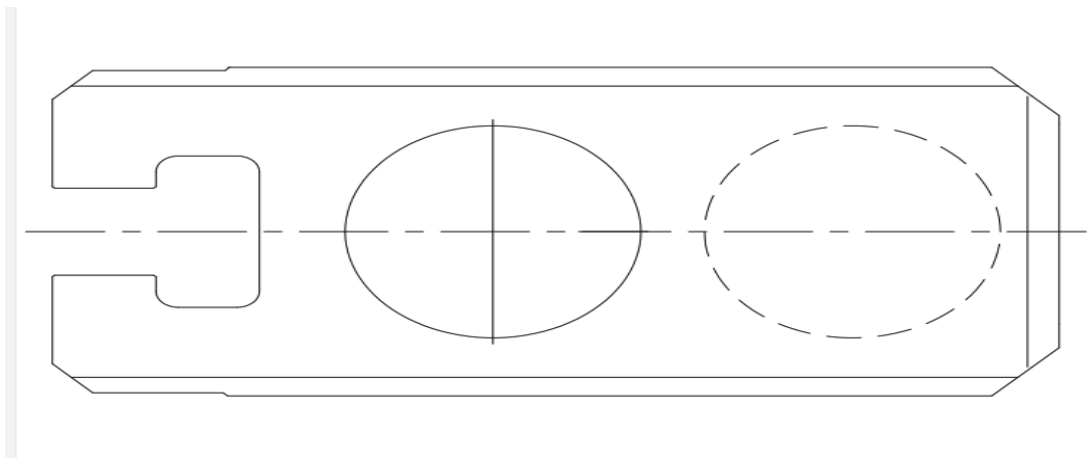
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A 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	AP050150	221110102Q2	223HBW				

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		



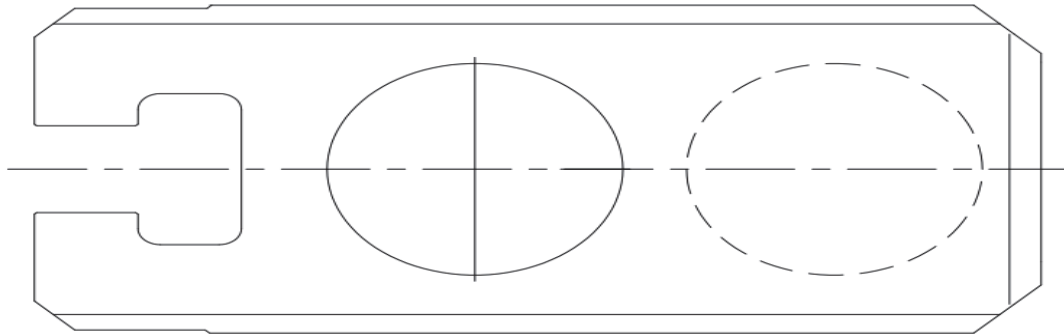
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:		
Drawing #:	PFFY105/103A L-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	AP050150	221110102Q2	1320HV					

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		



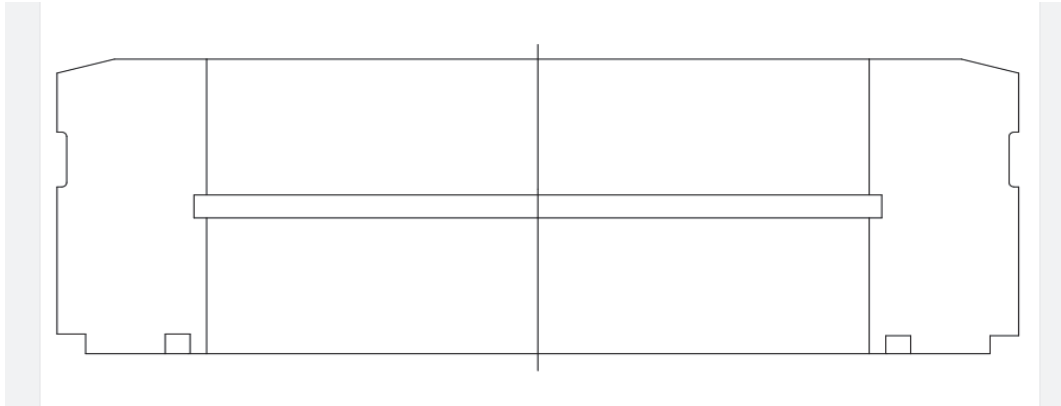
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050144	221110102Q2	96HRB					
2	AP050147	221110102Q2	97HRB					

Sketch:



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



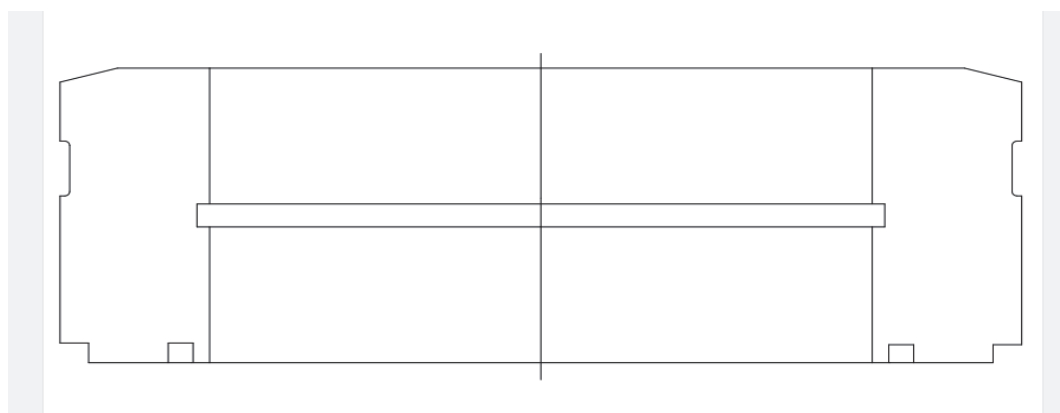
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	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	AP050144	221110102Q2	1251HV				
2	AP050147	221110102Q2	1257HV				

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Technical drawing of a shaft. The shaft has a central section with a keyway. A hole is located on the right side of the shaft. The drawing includes a cross-section view of the hole, showing its diameter and position relative to the shaft's centerline.

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



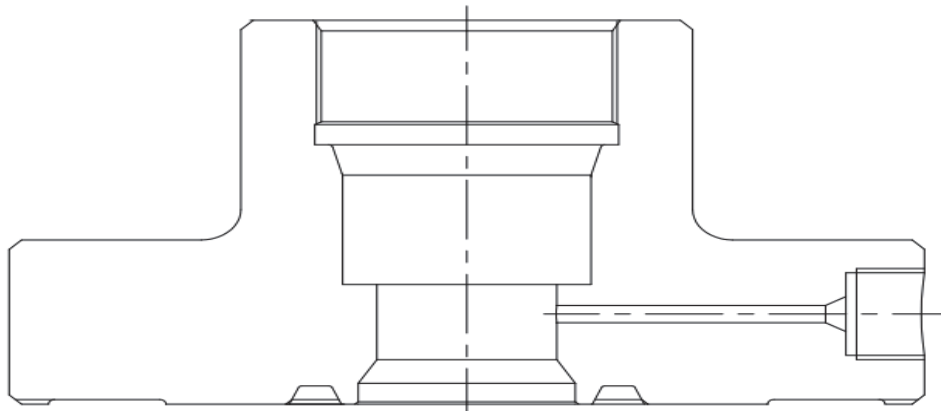
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:			
Drawing #:		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	AP050007	RC-12-09	224HBW/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

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	AP050022	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+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 #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1		
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	AP050052	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		

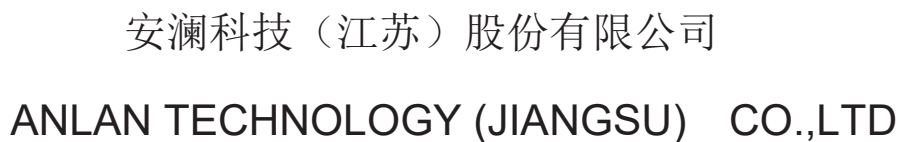


安澜科技（江苏）股份有限公司

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	AP050098	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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	AP050076	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st			Approved by:	Xin Zheng
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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 #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050007	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



MAGNETIC PARTICLE INSPECTION REPORT

18

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/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	AP050052	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050098	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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:		$\geq 1000\text{Uw/cm}^2$	
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	AP050150	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050150	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050144	221110102Q2	Acceptable						
2	AP050147	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050144	221110102Q2	Acceptable					
2	AP050147	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		



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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	AP050076	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				

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/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	AP050007	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		



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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 #:	AP050F011		
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	AP050022	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		



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

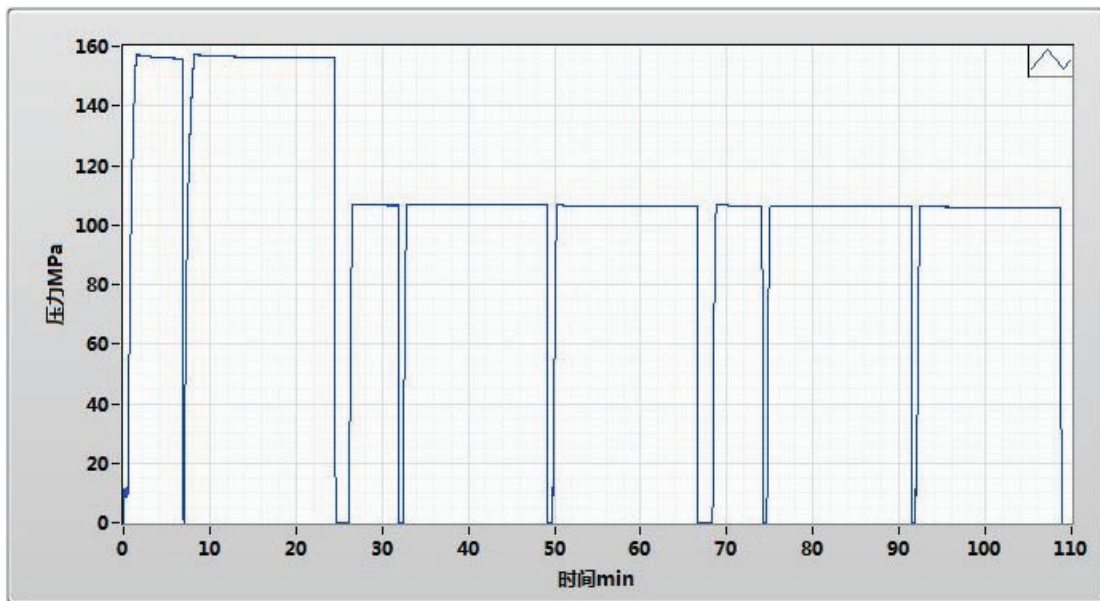
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F011	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	156.62	155.84	4.0	0.78
2	156.92	156.01	15.0	0.91
3	106.64	106.57	4.0	0.07
4	106.89	106.70	15.0	0.19
5	106.51	106.08	15.0	0.43
6	106.58	106.38	4.0	0.21
7	106.37	106.07	15.0	0.31
8	106.14	105.70	15.0	0.44



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



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F012

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



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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.: AP050F012

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications											
		1392	HYDRAULIC GATE VALVE		PFFY105/103AL-00	AP050F012	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st											
P/N	Parts	Description		Material Spec Standards	Melting Practice		Austenized		Quenched		Temper(1)		Temper(2)											
		Melt No.	H.T. No.		Serial No.	Qty.	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Time (min)									
PFFY105/103A L-00	BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	AP050040	1	860	3.5H	WATER	28	38	680	AIR	/	/									
	BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	AP050042	1	860	3.5H	WATER	28	37	690	AIR	/	/									
	STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	AP050088	1	1030	3.5H	WATER	19	22	630	AIR	5.2H	AIR									
	BALANCE STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	AP050073	1	1030	3.5H	WATER	19	22	630	AIR	5.2H	AIR									
	GATE	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	AP050151	1	990	4.5H	OIL	39	43	720	AIR	5.5H	AIR									
	BODY BUSHING	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	AP050173 AP050145	2	990	4.5H	OIL	39	43	720	AIR	5.5H	AIR									
TAIL BONNET	22106193C	RC-12-09	AISI 4130 75K,Per ASTM A29	AP050011	1	860	3.5H	WATER	28	37	690	AIR	/	/										
Chemical Analysis (wt. %)																								
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongati on (%)	ROA (%)	Impact(-46°C) 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	/	ø 80x200	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	/	ø 80x200	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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



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[illegible]



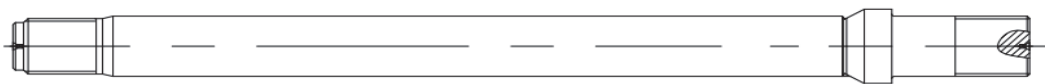
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050088	HY221113-5	30HRC					

Sketch:



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



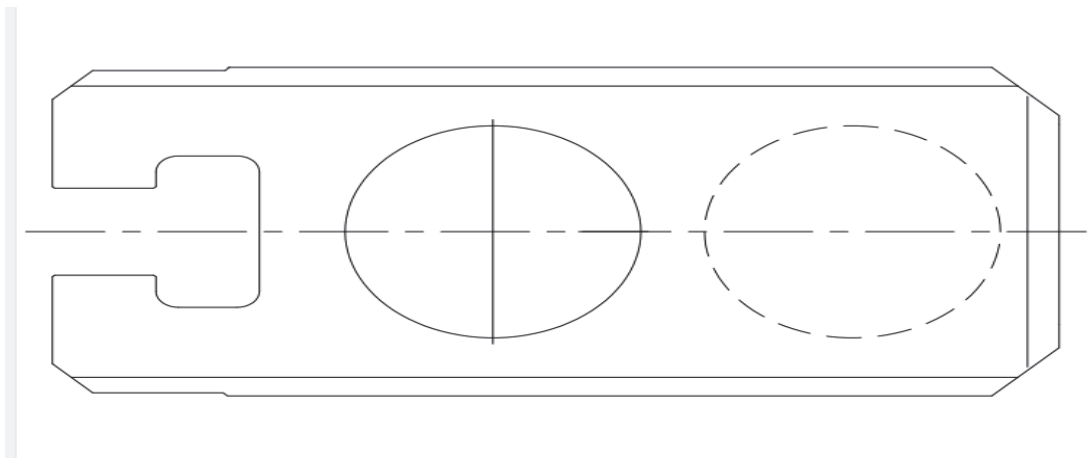
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A 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	AP050151	221110102Q2	229HBW				

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		



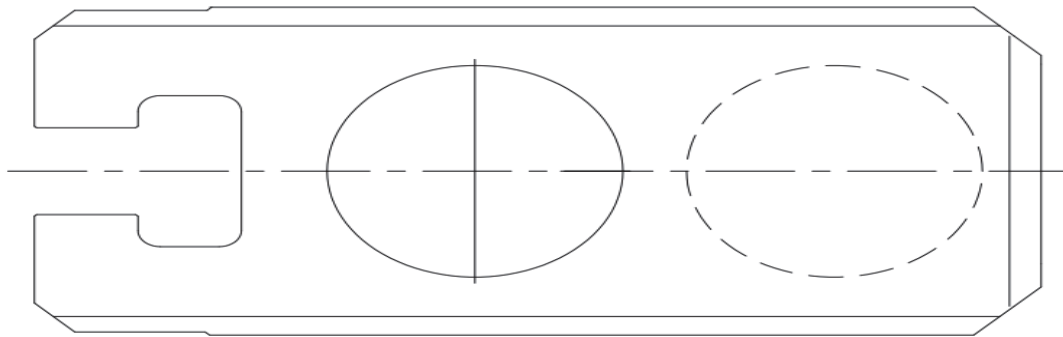
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-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	AP050151	221110102Q2	1283HV					

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		



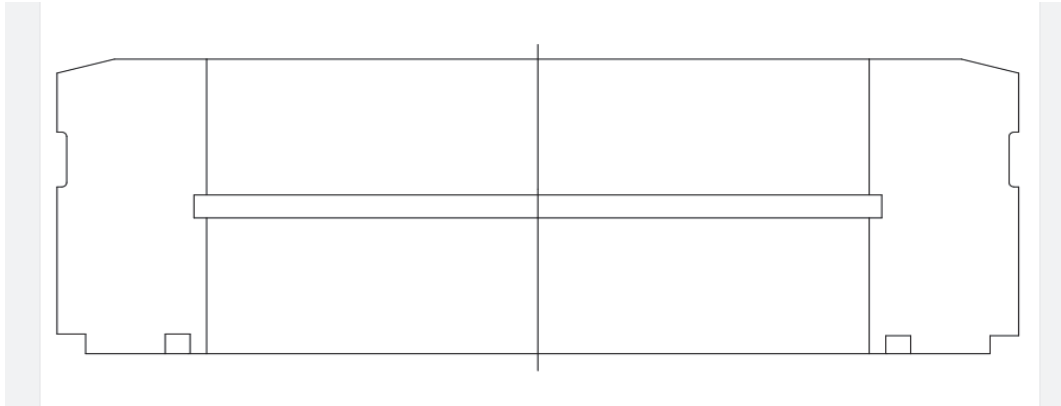
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050173	221110102Q2	97HRB					
2	AP050145	221110102Q2	98HRB					

Sketch:



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



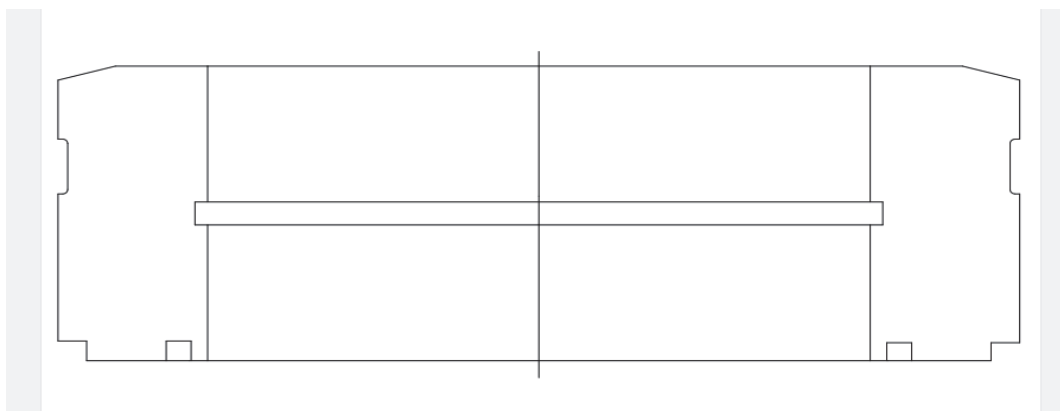
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	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	AP050173	221110102Q2	1290HV				
2	AP050145	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Technical drawing of a shaft. The shaft has a central section with a keyway. The left end has a hole with a diameter of 10 mm. The right end has a hole with a diameter of 10 mm. The shaft is shown in a perspective view.

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



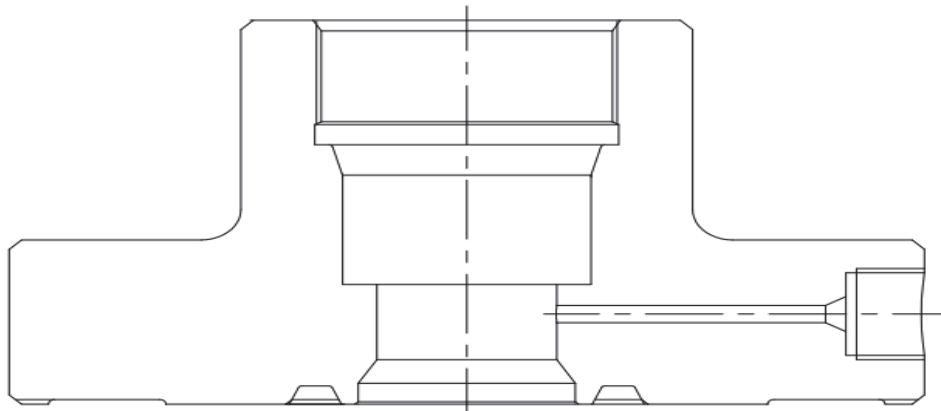
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:			
Drawing #:		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	AP050011	RC-12-09	224HBW/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

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	AP050040	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II			

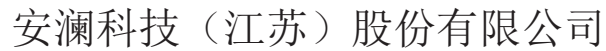


安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1392		Date:	2022.12	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1		
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	AP050042	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ULTRASONIC EXAMINATION REPORT

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



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-1214-00 1
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	AP050073	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050011	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050040	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		

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/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	AP050042	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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:	$\geq 1000\text{Uw/cm}^2$		
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	AP050151	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050151	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050173	221110102Q2	Acceptable						
2	AP050145	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050173	221110102Q2	Acceptable					
2	AP050145	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050073	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			



MAGNETIC PARTICLE INSPECTION REPORT

Inspection Coverage:

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

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:		1392		Date:		2023.01					
Drawing #:		PFFY105/103 AL-00	Specification:		API6A-21st		API Monogram:		6A-2074		Report #:		AP050F012	
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	AP050040		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

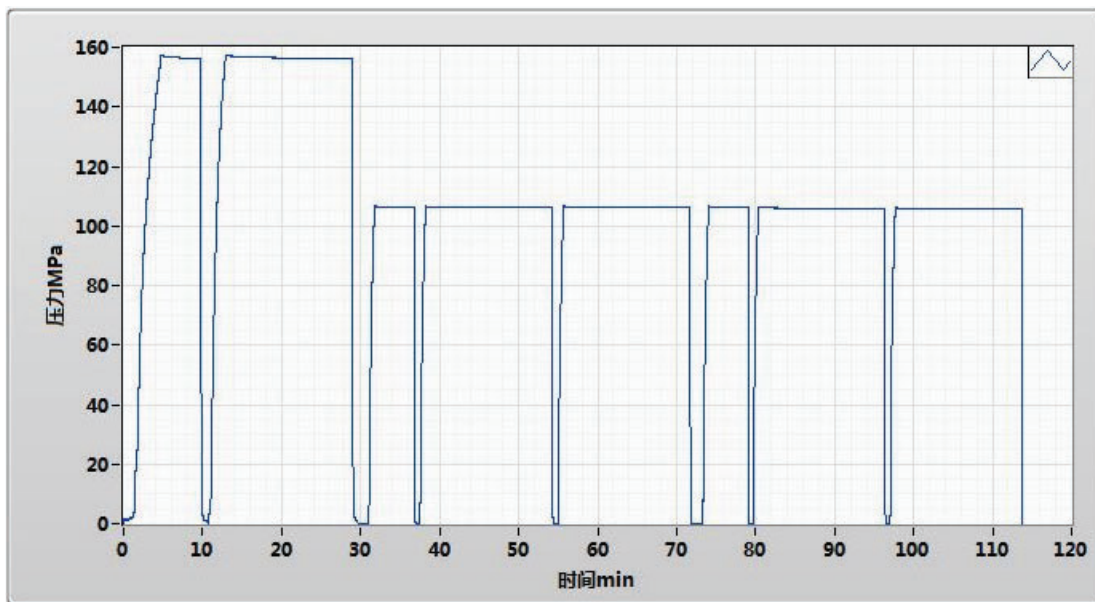
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F012	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	156.80	156.13	4.0	0.67
2	157.00	156.16	15.0	0.84
3	106.48	106.38	4.0	0.10
4	106.45	106.20	15.0	0.25
5	106.49	106.21	15.0	0.28
6	106.44	106.22	4.0	0.22
7	106.11	105.76	15.0	0.35
8	105.96	105.71	15.0	0.25



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



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F013

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.: AP050F013

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

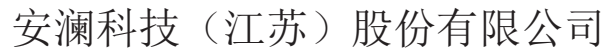
Customer		PO No.	Product		P/N		Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications	
		1392	HYDRAULIC GATE VALVE		PFFY105/103AL-00		AP050F013	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st	
P/N	Parts	Description		Material Spec Standards	Melting Practice			Austenized		Quenched		Temper(1)		Temper(2)	
		Melt No.	H.T. No.		Serial No.	Qty.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Temp (°C)	Time (min)	Temp (°C)	Time (min)
PFFY105/103A L-00	BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	AP050036	1	Forging	860	3.5H	WATER	28	680	5.0H	AIR	/
	BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	AP050043	1	Forging	860	3.5H	WATER	28	690	5.5H	AIR	/
	STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	AP050099	1	Forging	1030	3.5H	WATER	19	630	5.0H	AIR	5.2H
	BALANCE STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	AP050078	1	Forging	1030	3.5H	WATER	19	630	5.0H	AIR	5.2H
	GATE	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	AP050154	1	Forging	990	4.5H	OIL	39	43	5.5H	AIR	5.5H
	BODY BUSHING	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	AP050176 AP050171	2	Forging	990	4.5H	OIL	39	43	5.5H	AIR	5.5H
	TAIL BONNET	22106193C	RC-12-09	AISI 4130 75K,Per ASTM A29	AP050012	1	Forging	860	3.5H	WATER	28	690	5.5H	AIR	/
Chemical Analysis (wt, %)															
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe
1027400A	RC-12-12	0.30	0.57	0.29	0.011	0.0037	1.02	0.03	0.213	0.001	/	/	0.01	/	/
22E105071	RC-12-09	0.30	0.56	0.30	0.010	0.002	0.99	0.03	0.21	0.003	/	/	0.02	/	/
YX2208-2234	HY221113-5	0.022	0.50	0.44	0.031	0.003	15.72	4.15	/	/	/	/	3.60	0.243	/
YX2208-2234	HY221113-5	0.022	0.50	0.44	0.031	0.003	15.72	4.15	/	/	/	/	3.60	0.243	/
2215800290	221110102Q2	0.14	0.30	0.44	0.015	0.016	12.12	0.11	/	/	/	/	0.06	/	/
2215800290	221110102Q2	0.14	0.30	0.44	0.015	0.016	12.12	0.11	/	/	/	/	0.06	/	/
22106193C	RC-12-09	0.31	0.57	0.27	0.010	0.005	1.06	0.23	0.24	0.01	/	/	0.03	/	/
Physical Properties															
								Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongati on (%)	ROA (%)	Impact (-46°C) Impact direction (Transverse)	Equipment Type
								4"x4"x8"	QTC	672	533	37.0	51.0	56/60/64	JBW-300B/ WDW-300
								4"x4"x8"	QTC	675	532	48.0	50.0	65/62/59	JBW-300B/ WDW-300
								ø 80x200	QTC	1067	940	19.7	58.5	44/37/49	JBW-300B/ WDW-300
								ø 80x200	QTC	1067	940	19.7	58.5	44/37/49	JBW-300B/ WDW-300
								100x100x200	QTC	722	560	27.0	66.0	/	JBW-300B/ WDW-300
								100x100x200	QTC	722	560	27.0	66.0	/	JBW-300B/ WDW-300
								4"x4"x8"	QTC	672	530	45.0	54.0	61/60/57	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.

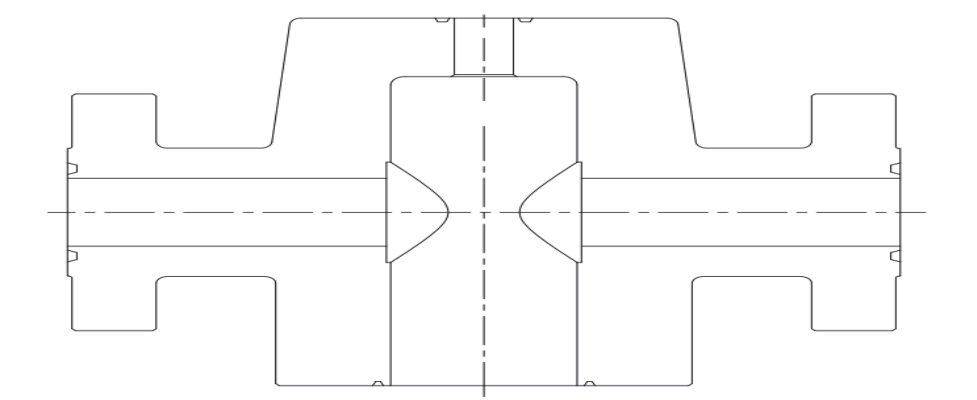
Xin Zheng

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



HARDNESS TEST REPORT

Sketch:

4



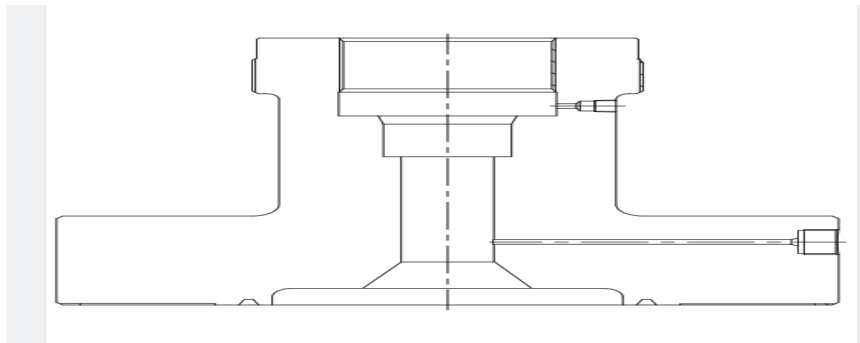
安澜科技（江苏）股份有限公司

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	AP050043	RC-12-09	226HBW/228HBW				

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		



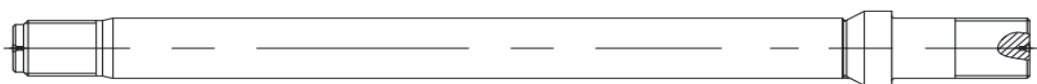
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A 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	AP050099	HY221113-5	31HRC					

Sketch:



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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



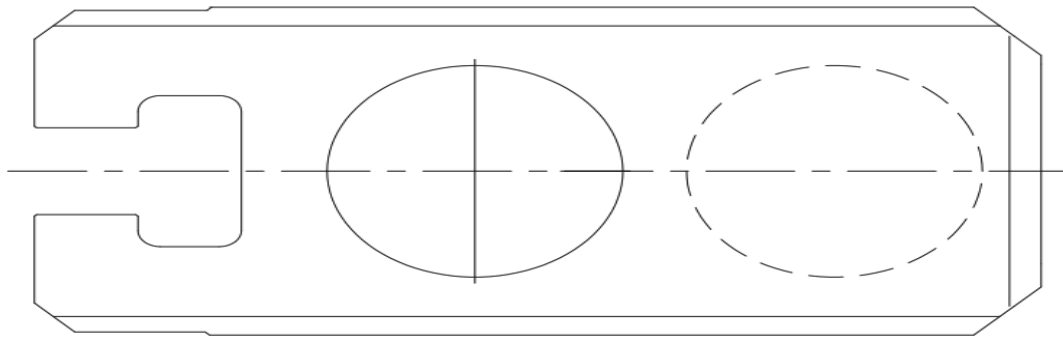
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-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	AP050154	221110102Q2	1285HV					

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		



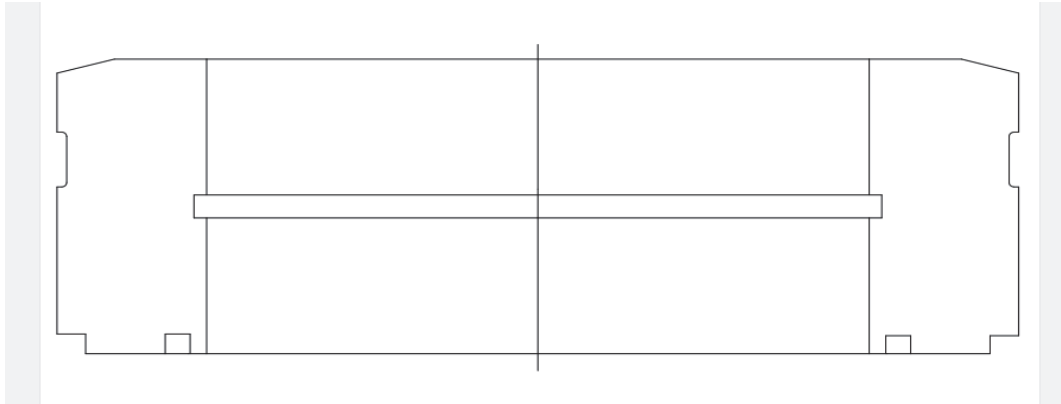
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050176	221110102Q2	95HRB					
2	AP050171	221110102Q2	97HRB					

Sketch:



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



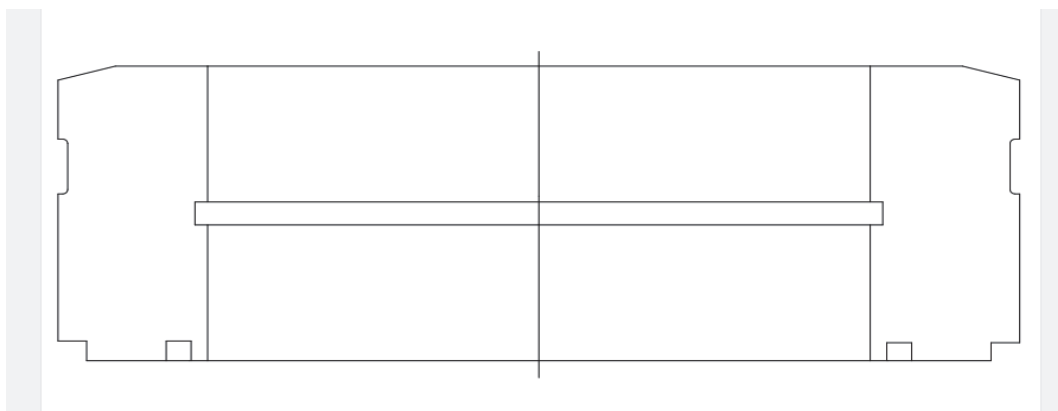
安澜科技（江苏）股份有限公司

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	AP050176	221110102Q2	1305HV				
2	AP050171	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		



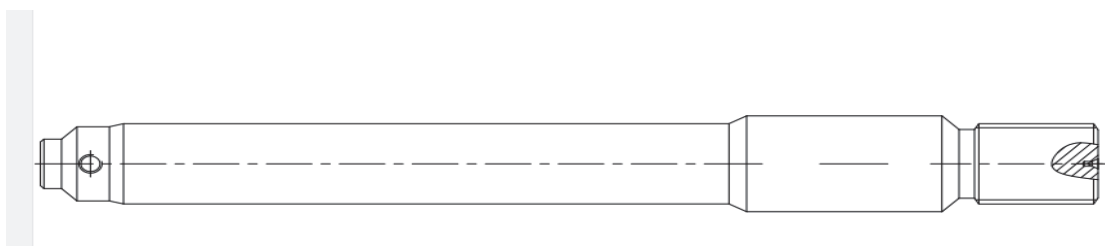
安澜科技（江苏）股份有限公司

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	AP050078	HY221113-5	31HRC				

Sketch:



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



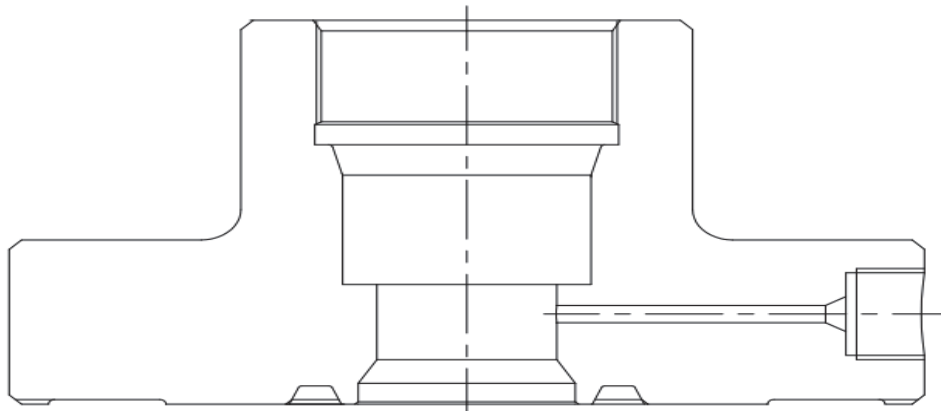
安澜科技（江苏）股份有限公司

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	AP050012	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	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	AP050036	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+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 #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1
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	AP050043	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



ULTRASONIC EXAMINATION REPORT

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

[illegible]



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 #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050012	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		

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/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	AP050036	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	

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/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	AP050043	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		



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[illegible]

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050154	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050154	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050176	221110102Q2	Acceptable						
2	AP050171	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050176	221110102Q2	Acceptable					
2	AP050171	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	AP050078	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	AP050012	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			Date:	2022.12				
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 #:	AP050F013		
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	AP050036	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							



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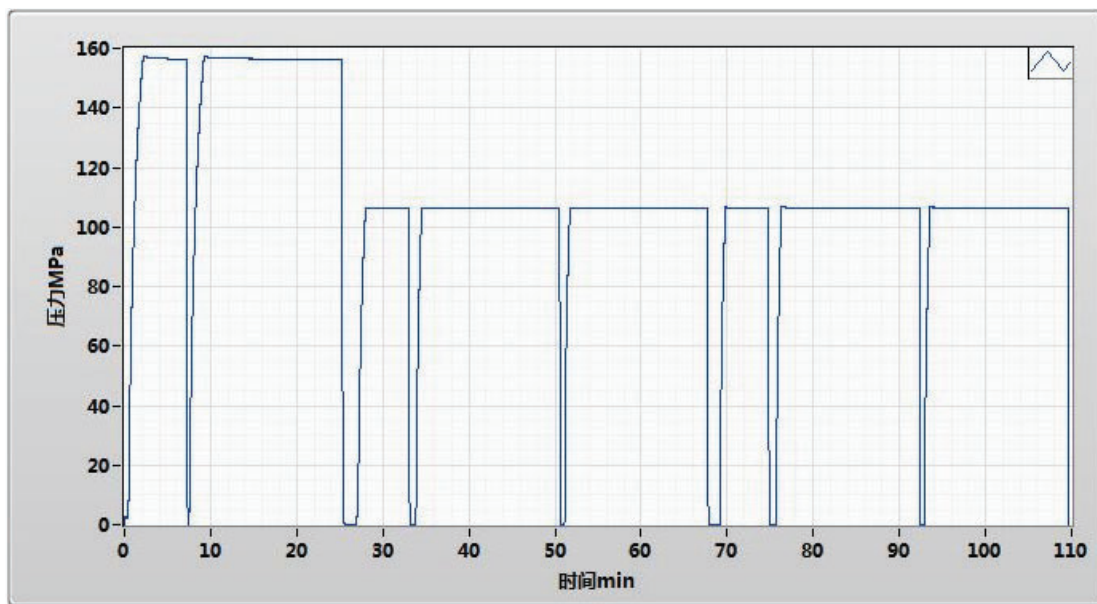
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F013	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	156.87	156.23	4.0	0.65
2	156.95	156.16	15.0	0.80
3	106.38	106.31	4.0	0.07
4	106.41	106.13	15.0	0.28
5	106.42	106.23	15.0	0.19
6	106.49	106.38	4.0	0.11
7	106.53	106.10	15.0	0.43
8	106.52	106.28	15.0	0.24



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



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F014

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



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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.: AP050F014

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications											
		1392	HYDRAULIC GATE VALVE		PFFY105/103AL-00	AP050F014	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st											
P/N	Parts	Description		Melting Practice			Austenized		Quenched		Temper(1)			Temper(2)										
		Melt No.	H.T. No.	Material Spec Standards	Qty.	Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Time (min)								
PFFY105/103A L-00	BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	1	AP050037	Forging	860	3.5H	WATER	28	38	680	5.0H	AIR	/	/							
	BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050051	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/							
	STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050096	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	AIR							
	BALANCE STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050065	Forging	1030	3.5H	WATER	19	22	630	5.0H	AIR	630	AIR							
	GATE	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	1	AP050148	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	AIR							
	BODY BUSHING	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	2	AP050165 AP050168	Forging	990	4.5H	OIL	39	43	720	5.5H	AIR	680	AIR							
	TAIL BONNET	22106193C	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050008	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/							
Chemical Analysis (wt. %)																								
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)	Elongati on (%)	ROA (%)	Impact(-46°C) 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	/	ø 80x200	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	/	ø 80x200	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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



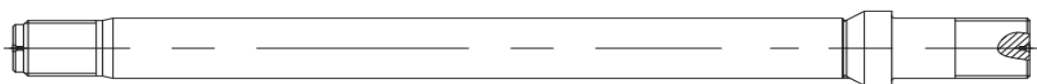
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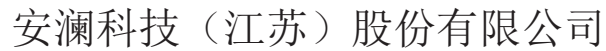
HARDNESS TEST REPORT

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	AP050096	HY221113-5	31HRC					

Sketch:

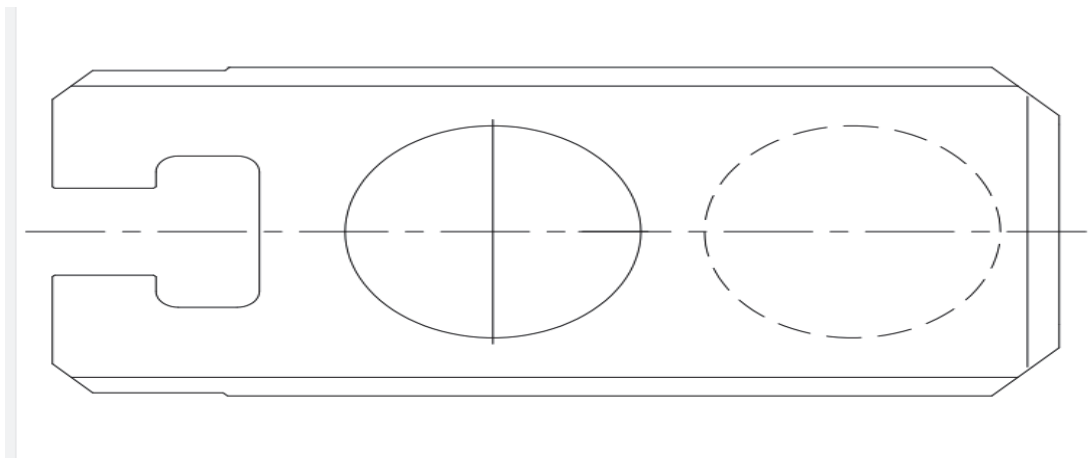


Method Used:			
Acceptable Hardness:	27HRC-33HRC	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



HARDNESS TEST REPORT

Sketch:

7



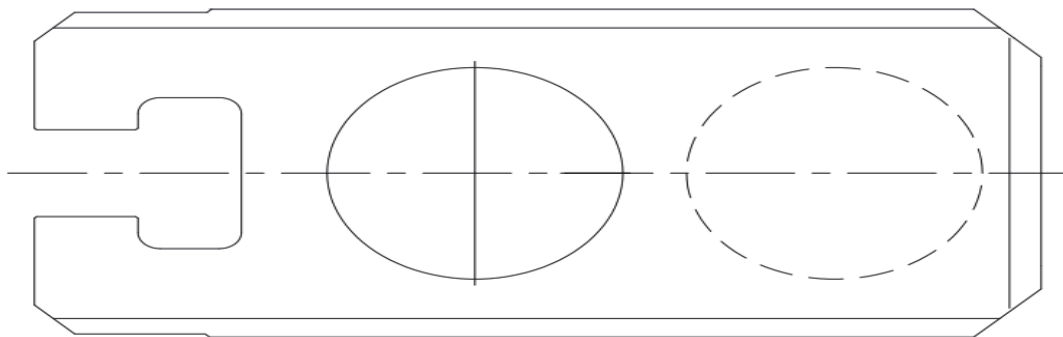
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HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-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	AP050148	221110102Q2	1291HV				

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		



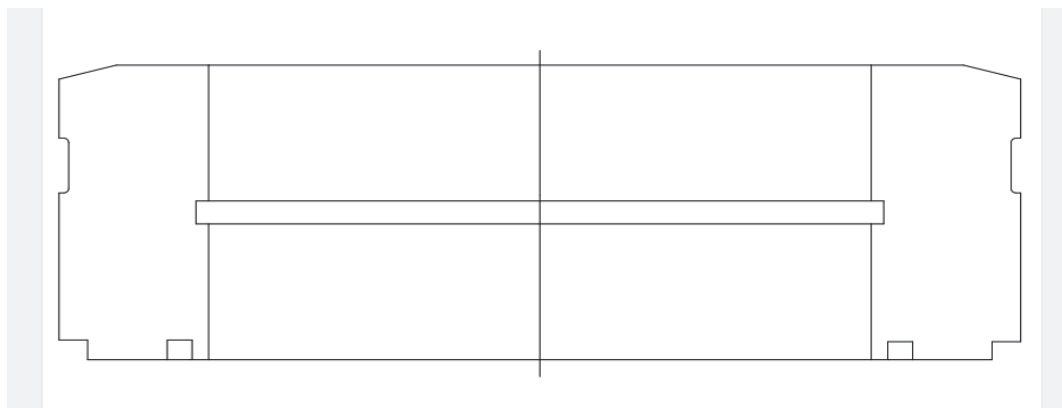
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HARDNESS TEST REPORT

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	AP050165	221110102Q2	96HRB					
2	AP050168	221110102Q2	96HRB					

Sketch:



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



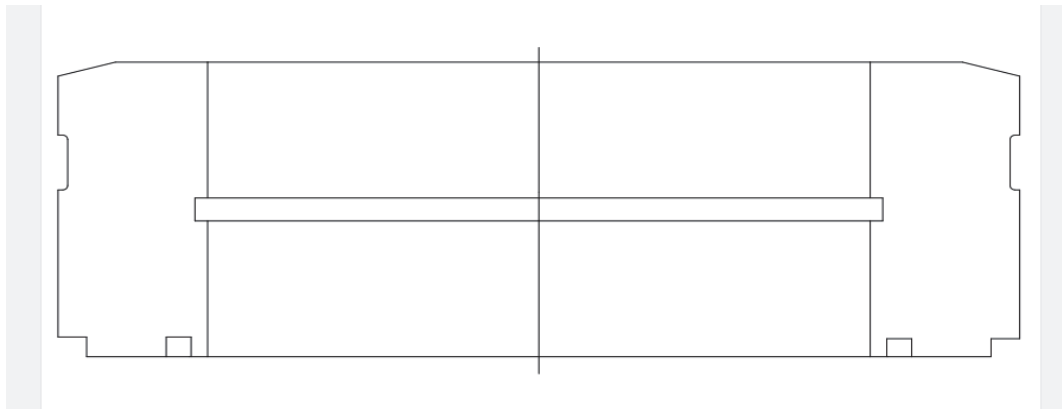
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	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	AP050165	221110102Q2	1282HV					
2	AP050168	221110102Q2	1300HV					

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		



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[illegible]

Technical drawing of a shaft. The shaft has a central section with a keyway. A hole is located on the right side of the shaft. The drawing includes a cross-section view of the hole, showing its diameter and position relative to the shaft's centerline.

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



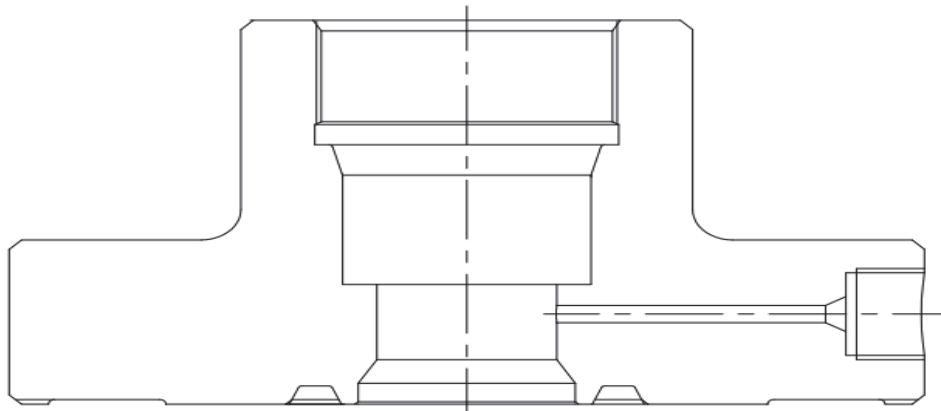
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HARDNESS TEST REPORT

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	AP050008	RC-12-09	221HBW/221HBW				

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		



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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	AP050037	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II			



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:	1392		Date:	2022.12	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1		
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	AP050051	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050096	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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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-1214-00 1
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	AP050065	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident. #:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050008	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		

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/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	AP050037	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	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050051	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		



LIQUID PENETRATE EXAMINATION

20



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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:	$\geqslant 1000\text{Uw/cm}^2$		
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	AP050148	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050148	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		





ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050165	221110102Q2	Acceptable					
2	AP050168	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			



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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	AP050065	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				

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/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	AP050008	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		



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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 #:	AP050F014		
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	AP050037	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							



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

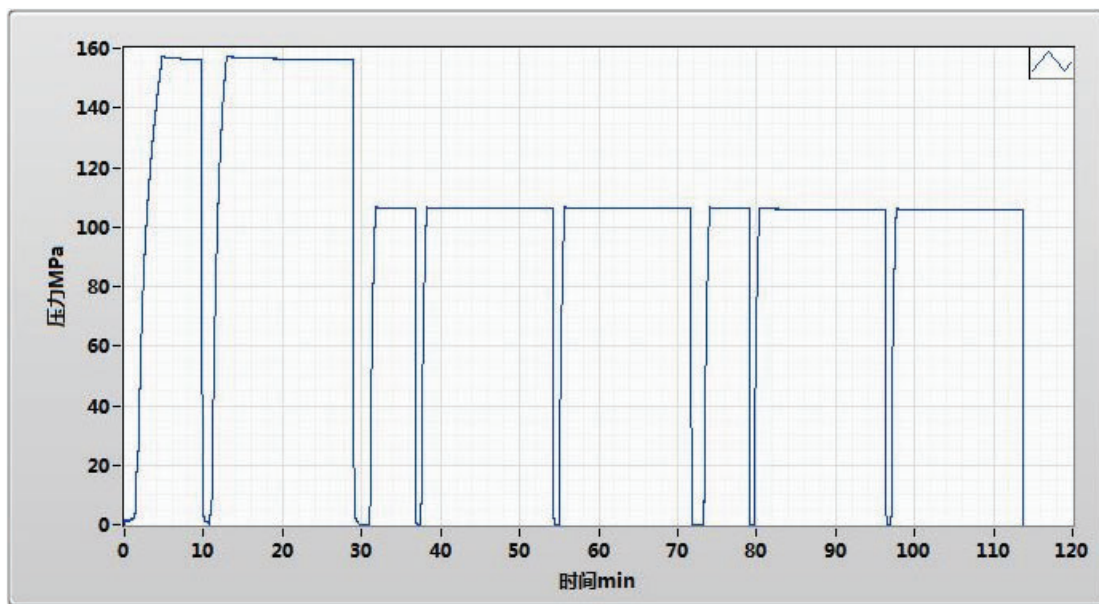
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F014	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	156.80	156.13	4.0	0.67
2	157.00	156.16	15.0	0.84
3	106.48	106.38	4.0	0.10
4	106.45	106.20	15.0	0.25
5	106.49	106.21	15.0	0.28
6	106.44	106.22	4.0	0.22
7	106.11	105.76	15.0	0.35
8	105.96	105.71	15.0	0.25



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



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F015

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



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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.: AP050F015

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications											
		1392	HYDRAULIC GATE VALVE		PFFY105/103AL-00	AP050F015	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st											
P/N	Parts	Description		Material Spec Standards	Melting Practice		Austenized		Quenched		Temper(1)		Temper(2)											
		Melt No.	H.T. No.		Serial No.	Qty.	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Time (min)									
PFFY105/103A L-00	BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	AP050034	1	860	3.5H	WATER	28	38	680	AIR	/	/									
	BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	AP050045	1	860	3.5H	WATER	28	37	690	AIR	/	/									
	STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	AP050081	1	1030	3.5H	WATER	19	22	630	AIR	5.2H	AIR									
	BALANCE STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	AP050079	1	1030	3.5H	WATER	19	22	630	AIR	5.2H	AIR									
	GATE	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	AP050147	1	990	4.5H	OIL	39	43	720	AIR	5.5H	AIR									
	BODY BUSHING	2215800290	221110102Q2	AISI 410 75K,Per ASTM A276/276M	AP050167 AP050141	2	990	4.5H	OIL	39	43	720	AIR	5.5H	AIR									
TAIL BONNET	22106193C	RC-12-09	AISI 4130 75K,Per ASTM A29	AP050018	1	860	3.5H	WATER	28	37	690	AIR	/	/										
Chemical Analysis (wt. %)																								
Melt No.	H.T. No.	C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongati on (%)	ROA (%)	Impact(-46°C) 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	/	ø 80x200	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	/	ø 80x200	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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

A technical line drawing of a mechanical component, possibly a valve or actuator, shown in a side profile. The component features a central vertical axis, indicated by a dashed line. It has a cylindrical upper section with a flange, a central body, and a base. A horizontal line extends from the right side of the central body, ending in a small rectangular feature. The drawing is a black and white line art, typical of engineering specifications.

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 #:	PFFY105/103A 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	AP050081	HY221113-5	29HRC					

Sketch:



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



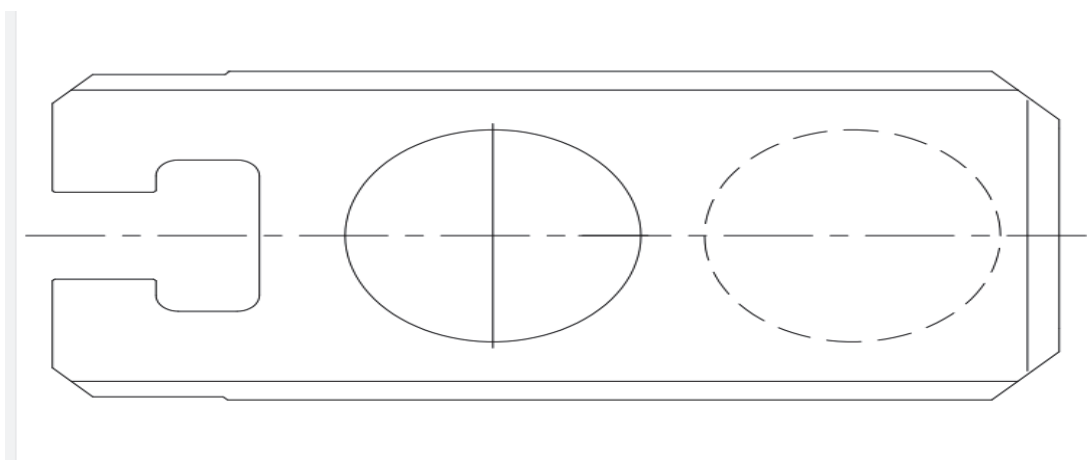
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A 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	AP050147	221110102Q2	224HBW				

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		



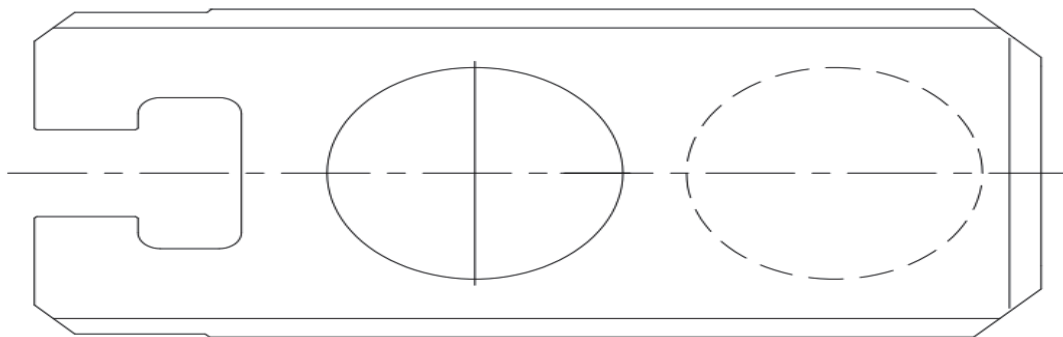
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HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-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	AP050147	221110102Q2	1274HV				

Sketch:

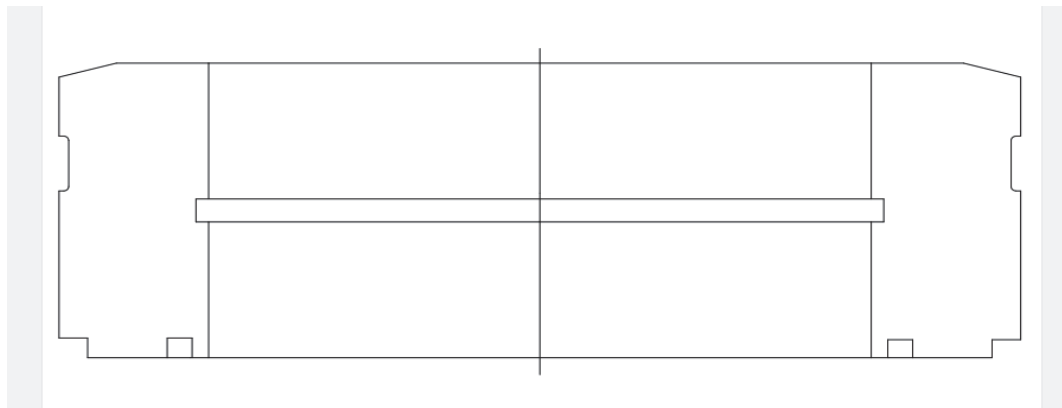


Method Used:	Impact Energy: 5Kg-f(49.03N).		
Acceptable Hardness:	≥1050HV	Approved By:	Examined By:
Judgments:	[V] Conforms	Xin zheng	Zhengguo Yao
	[] Does Not Conform		



HARDNESS TEST REPORT

Sketch:

9



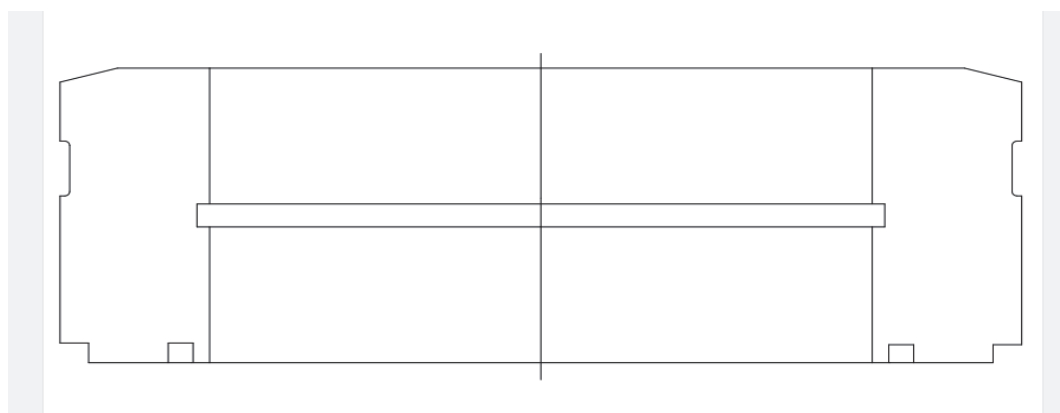
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050167	221110102Q2	1307HV				
2	AP050141	221110102Q2	1254HV				

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Technical drawing of a shaft. The shaft has a central section with a keyway. The left end has a hole with a diameter of 10 mm. The right end has a hole with a diameter of 12 mm. The shaft is shown in a perspective view with a dashed line indicating the keyway.

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



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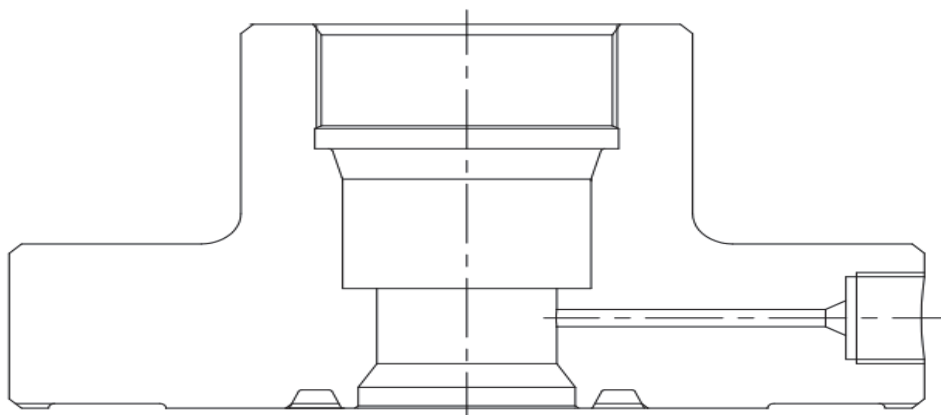
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HARDNESS TEST REPORT

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

Item	S/N	Heat Log No.	Hardness	Item	S/N	Heat Log No.	Hardness
1	AP050018	RC-12-09	224HBW/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

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	AP050034	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II		

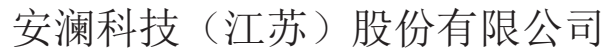


安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1
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	AP050045	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



ULTRASONIC EXAMINATION REPORT

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



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-1214-00 1
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	AP050079	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident. #:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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 #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050018	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		

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/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	AP050034	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	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050045	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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:		$\geqslant 1000\text{Uw/cm}^2$	
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	AP050147	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			



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050147	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		



MAGNETIC PARTICLE INSPECTION REPORT

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LIQUID PENETRATE EXAMINATION

24

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	AP050079	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		

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/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	AP050018	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 #:	AP050F015		
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	AP050034	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

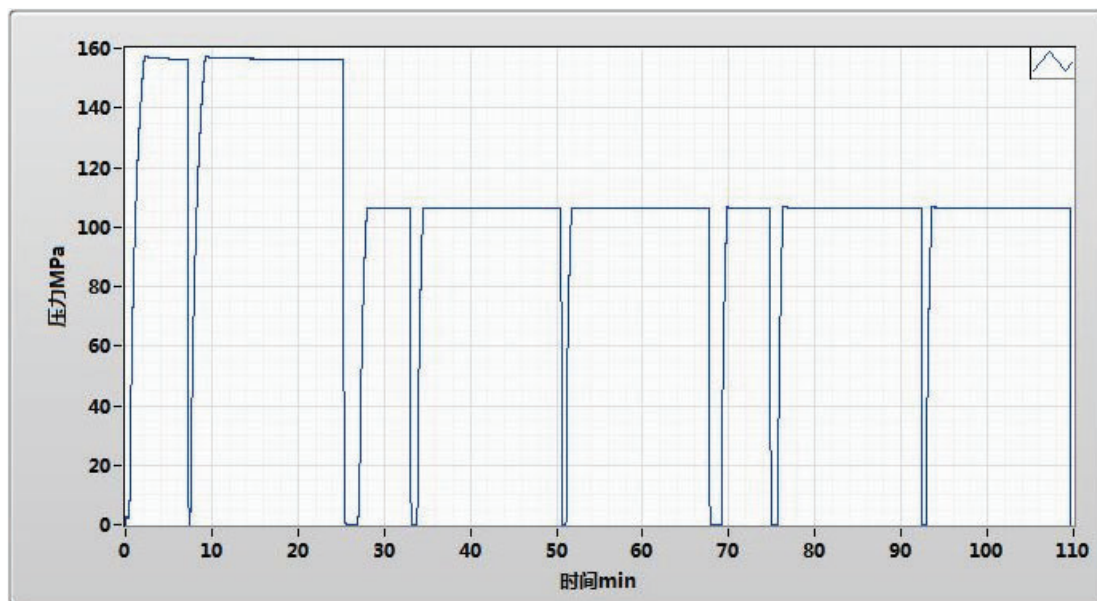
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F015	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	156.87	156.23	4.0	0.65
2	156.95	156.16	15.0	0.80
3	106.38	106.31	4.0	0.07
4	106.41	106.13	15.0	0.28
5	106.42	106.23	15.0	0.19
6	106.49	106.38	4.0	0.11
7	106.53	106.10	15.0	0.43
8	106.52	106.28	15.0	0.24



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



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F016

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.: AP050F016

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications											
		1392	HYDRAULIC GATE VALVE		PFFY105/103AL-00	AP050F016	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st											
P/N	Parts	Description		H.T. No.	Material Spec Standards	Qty.	Melting Practice		Austenized			Quenched			Temper(1)			Temper(2)						
		Melt No.					Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium					
PFFY105/103A L-00	BODY	1027400A		RC-12-12	AISI 4130 75K,Per ASTM A29	1	AP050038	Forging	860	3.5H	WATER	28	38	680	AIR	/	/	/	/					
	BONNET	22E105071		RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050055	Forging	860	3.5H	WATER	28	37	690	AIR	/	/	/	/					
	STEM	YX2208-2234		HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050090	Forging	1030	3.5H	WATER	19	22	630	AIR	5.2H	AIR	AIR						
	BALANCE STEM	YX2208-2234		HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050064	Forging	1030	3.5H	WATER	19	22	630	AIR	5.2H	AIR	AIR						
	GATE	2215800290		221110102Q2	AISI 410 75K,Per ASTM A276/276M	1	AP050142	Forging	990	4.5H	OIL	39	43	720	AIR	5.5H	AIR	AIR						
	BODY BUSHING	2215800290		221110102Q2	AISI 410 75K,Per ASTM A276/276M	2	AP050156 AP050174	Forging	990	4.5H	OIL	39	43	720	AIR	5.5H	AIR	AIR						
	TAIL BONNET	22106193C		RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050013	Forging	860	3.5H	WATER	28	37	690	AIR	/	/	/						
Melt No.	H.T. No.	Chemical Analysis (wt. %)										Physical Properties				Impact(-46°C) Impact direction (Transverse)	Hardness	Equipment Type						
		C	Mn	Si	P	S	Cr	Ni	Mo	V	Co	W	Cu	Nb	Fe				Spec Size	Spec Origin	Tensile (MPa)	Yield (MPa)	Elongati on (%)	ROA (%)
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	/	ø 80x200	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	/	ø 80x200	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.

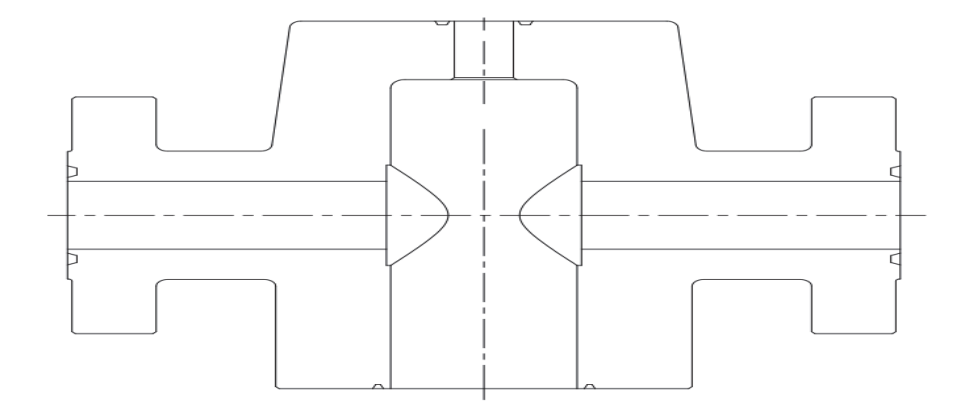
Xin Zheng

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



HARDNESS TEST REPORT

Sketch:

4



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]



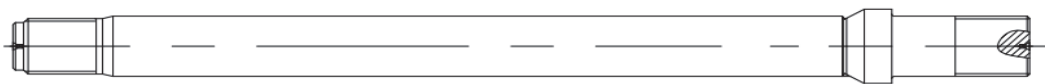
安澜科技（江苏）股份有限公司

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	AP050090	HY221113-5	30HRC					

Sketch:



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



HARDNESS TEST REPORT

The image shows a technical drawing of a mechanical part, likely a bracket or a base plate, with two views: a front view (top) and a top view (bottom). The part has a rectangular body with a semi-circular cutout on the left side. The front view shows a solid line for the top and bottom edges, and a dashed line for the hidden internal edge. The top view shows a solid line for the front edge and a dashed line for the hidden back edge. The part is symmetrical about a vertical centerline.

7



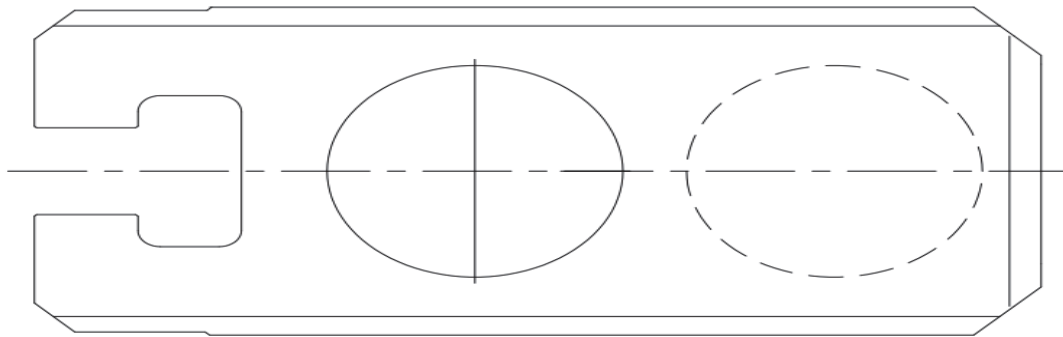
安澜科技（江苏）股份有限公司

ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM 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	AP050142	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		



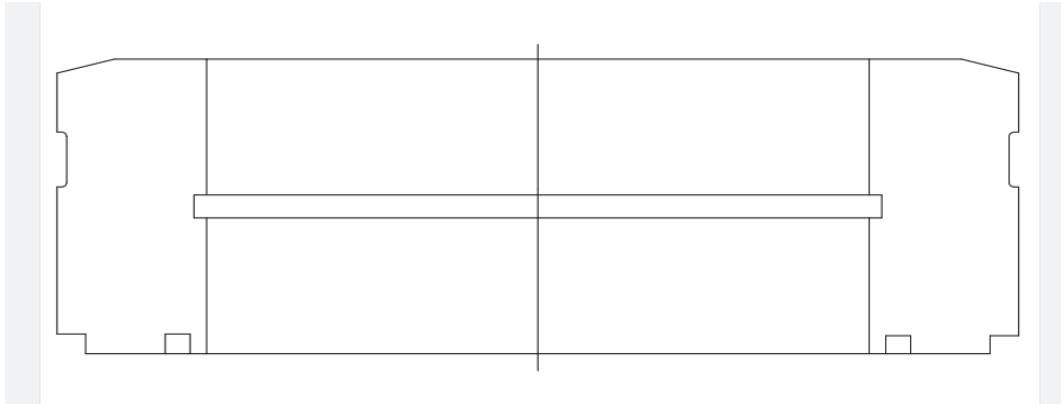
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050156	221110102Q2	98HRB				
2	AP050174	221110102Q2	96HRB				

Sketch:



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



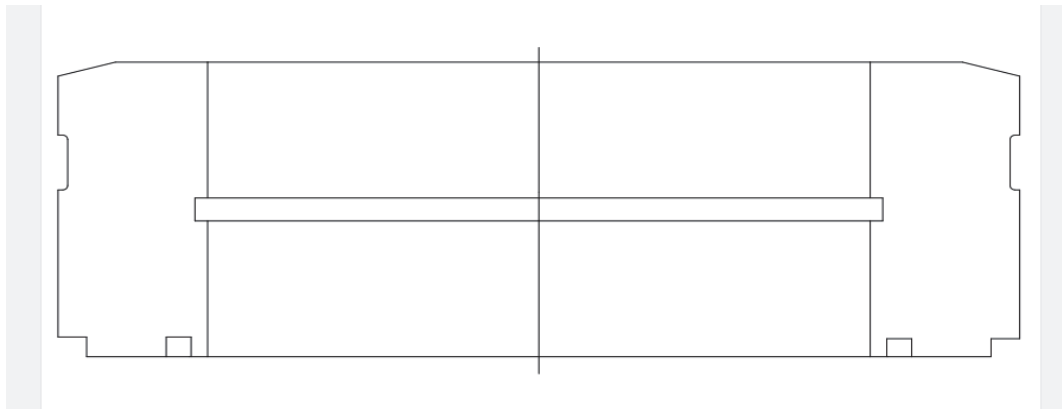
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	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	AP050156	221110102Q2	1304HV					
2	AP050174	221110102Q2	1290HV					

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		



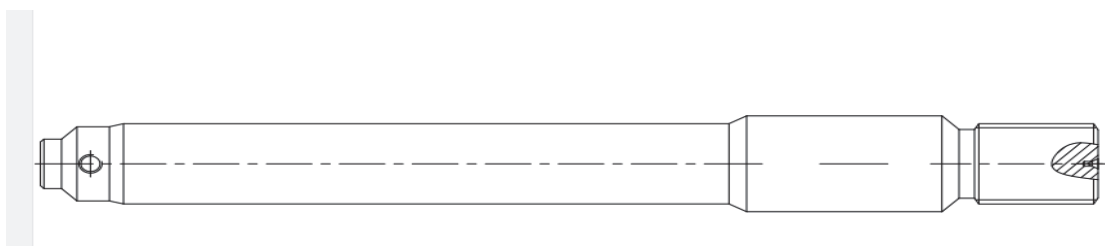
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050064	HY221113-5	29HRC				

Sketch:



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



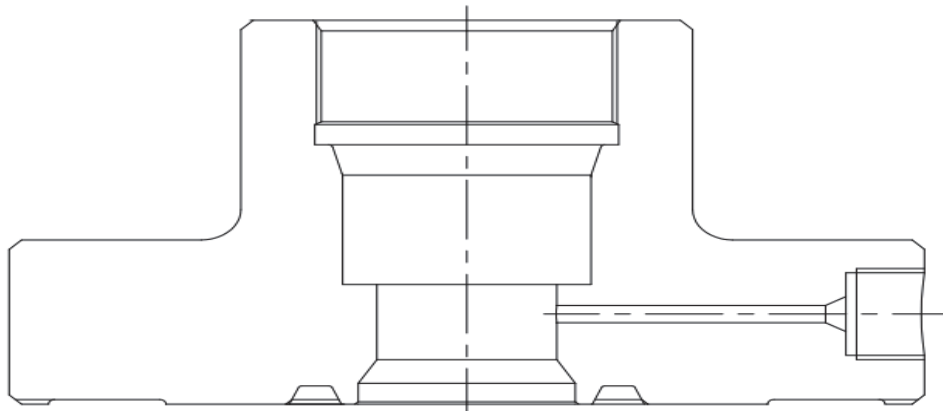
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:			
Drawing #:		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	AP050013	RC-12-09	220HBW/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

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	AP050038	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+6dB		Level as per UT:	II			



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:			Customer PO#:	1392		Date:	2022.12
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1
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	AP050055	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



ULTRASONIC EXAMINATION REPORT

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



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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-1214-00 1
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	AP050064	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II	



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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

ULTRASONIC EXAMINATION REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050013	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050038	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050055	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		



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[illegible]

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



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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:		$\geq 1000\text{Uw/cm}^2$	
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				
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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050142	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		



MAGNETIC PARTICLE INSPECTION REPORT

23



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050156	221110102Q2	Acceptable					
2	AP050174	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050064	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			

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/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	AP050013	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 #:	AP050F016		
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	AP050038	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									
Judgments:					Approved By:		Examined By:		
			[V] Conforms		Xin Zheng		Yifei Ma		
			[] Does Not Conform						



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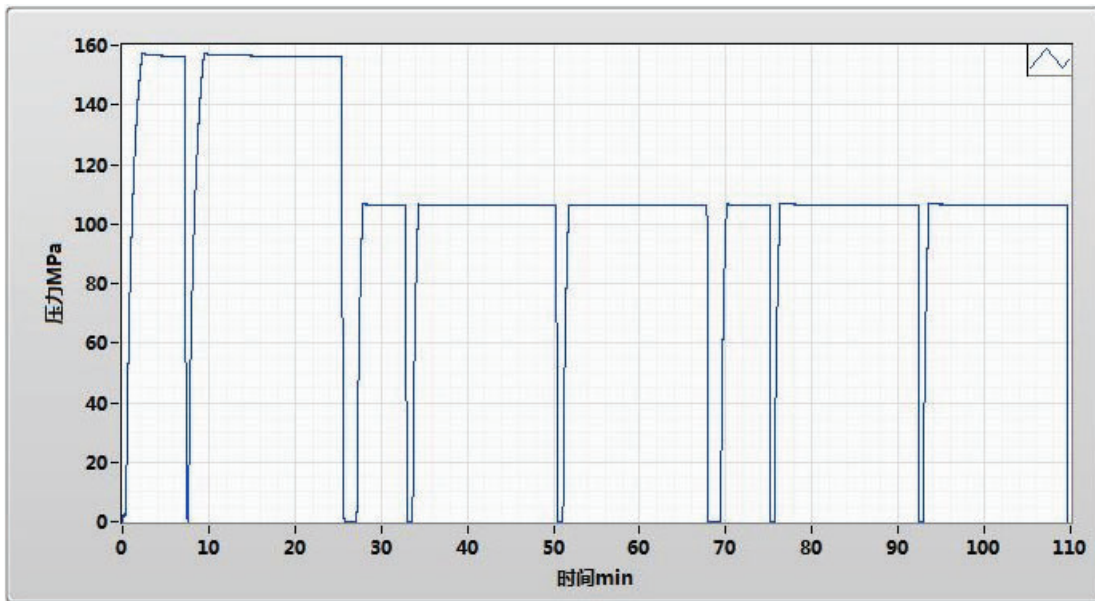
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
HYDRAULIC GATE VALVE	AP050F016	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



REPORT INDEX

Purchase Order: 1392

Quantity: 1EA

Shipment No.: Crate# AP050F017

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.: AP050F017

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:

INSPECTOR: Zhicheng Feng

(STAMP)

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
Certified Material Test Report

Date:January,2023

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications											
		1392	HYDRAULIC GATE VALVE		PFFY105/103AL-00	AP050F017	1	4-1/16"	15000Psi	EE-0.5	PSL3	LU	API Spec 6A 21st											
P/N	Parts	Description		Material Spec Standards	Qty.	Melting Practice		Austenized		Quenched		Temper(1)		Heat Treatment										
		Melt No.	H.T. No.			Serial No.	Finished	Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Medium	Temp (°C)	Time (min)	Medium						
PFFY105/103A L-00	BODY	1027400A	RC-12-12	AISI 4130 75K,Per ASTM A29	1	AP050029	Forging	860	3.5H	WATER	28	38	680	5.0H	AIR	/	/	/						
	BONNET	22E105071	RC-12-09	AISI 4130 75K,Per ASTM A29	1	AP050056	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/	/						
	STEM	YX2208-2234	HY221113-5	PH17-4 105K,Per ASTM A564/564M	1	AP050097	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	AP050068	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	AP050160	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	AP050154 AP050157	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	AP050016	Forging	860	3.5H	WATER	28	37	690	5.5H	AIR	/	/	/						
Chemical Analysis (wt. %)																								
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)	Elongati on (%)	ROA (%)	Impact(-46°C) 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	/	ø 80x200	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	/	ø 80x200	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



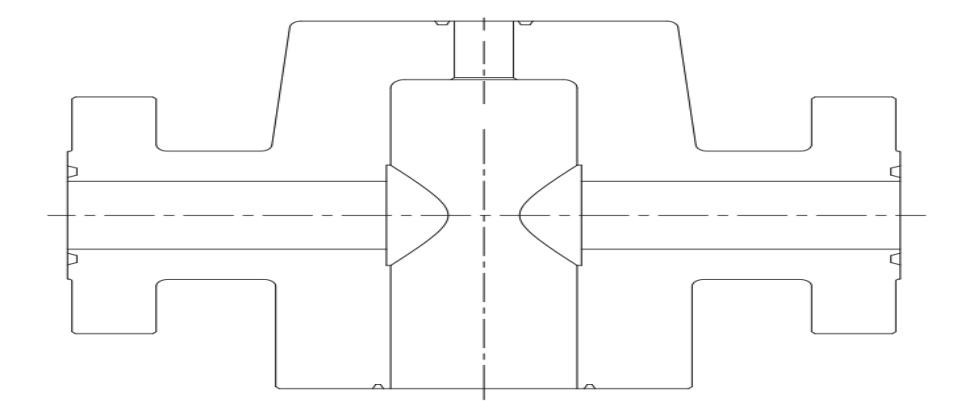
安澜科技（江苏）股份有限公司

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-1223-00 2
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	AP050029	RC-12-12	229HBW/225HBW 225HBW/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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

[illegible]

Technical drawing of a mechanical component, likely a valve or actuator, showing a cross-section view. The drawing includes a central vertical shaft with a flange, a horizontal pipe connection on the right, and a base. A dashed line indicates the center of rotation.

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 #:	PFFY105/103A 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	AP050097	HY221113-5	31HRC					

Sketch:



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



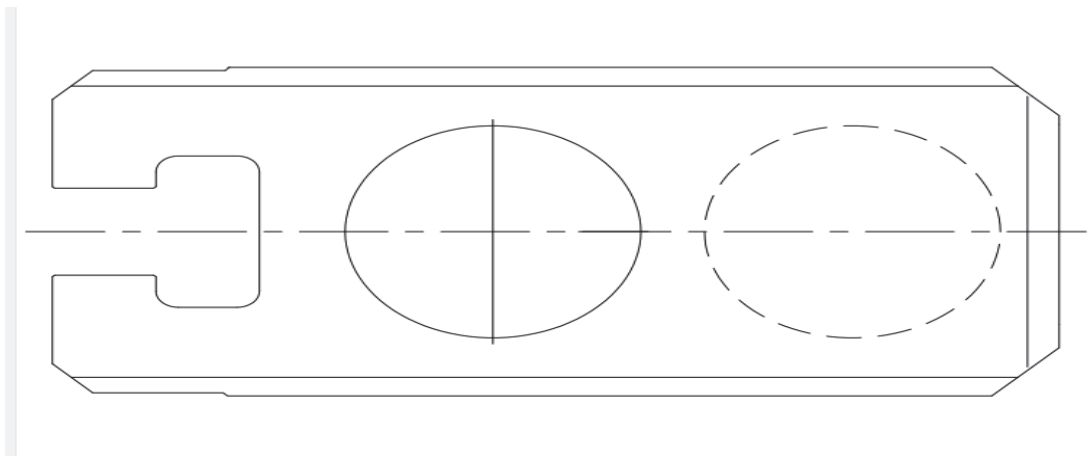
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:			Date:	
Drawing #:	PFFY105/103A 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	AP050160	221110102Q2	218HBW				

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		



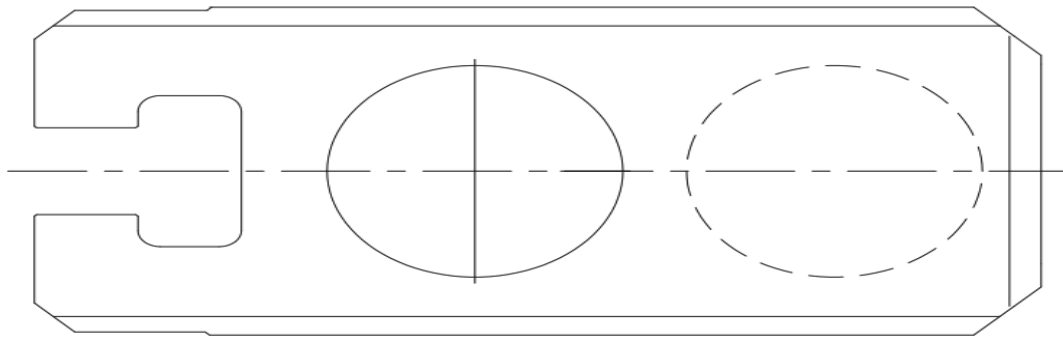
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:				Customer PO#:			Date:	
Drawing #:	PFFY105/103A L-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	AP050160	221110102Q2	1291HV					

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		



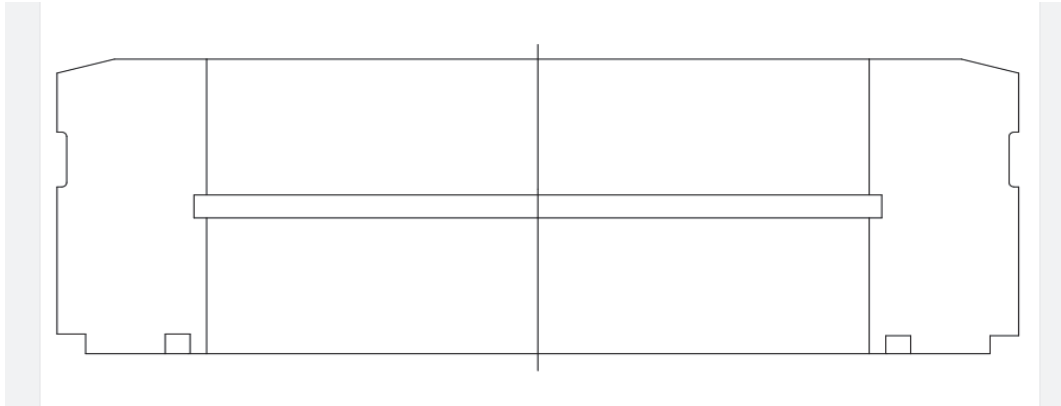
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050154	221110102Q2	95HRB					
2	AP050157	221110102Q2	95HRB					

Sketch:



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



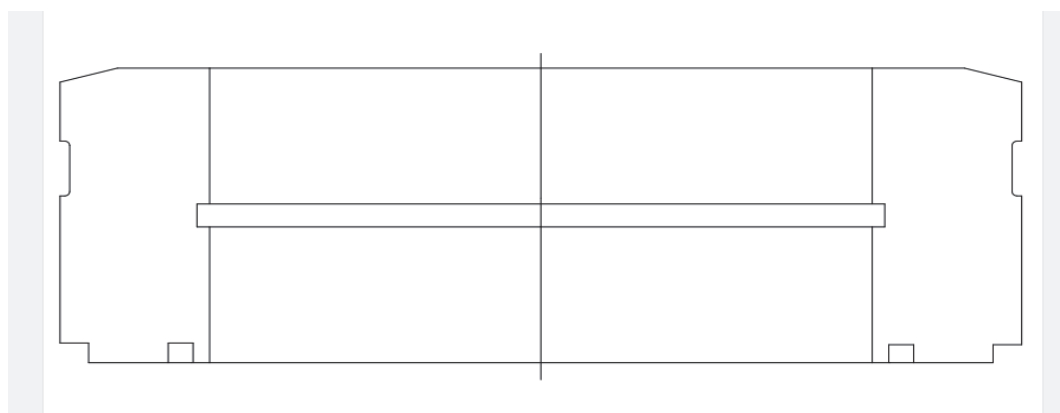
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:			Customer PO#:	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	AP050154	221110102Q2	1314HV				
2	AP050157	221110102Q2	1289HV				

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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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	AP050068	HY221113-5	30HRC						
Sketch:									
Method Used:									
Acceptable Hardness:		27HRC-33HRC		Approved By:			Examined By:		
Judgments:		[V] Conforms		Xin zheng			Zhengguo Yao		
		[] Does Not Conform							



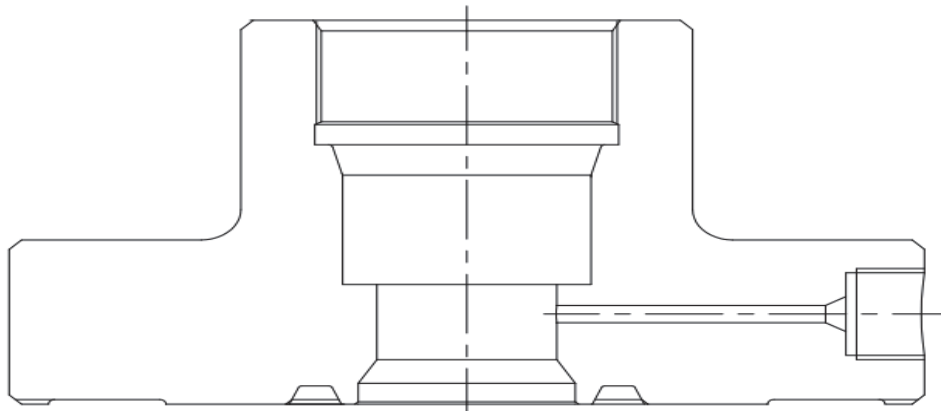
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ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

HARDNESS TEST REPORT

Customer:		Customer PO#:		Date:			
Drawing #:		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	AP050016	RC-12-09	221HBW/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	AP050029	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 Φ 1.6 FBH Block Φ 3.2 FBH Block Φ 6.4 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng			
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB Φ 6.4DAC+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 #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1215-00 1		
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	AP050056	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20		Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504		Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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	AP050097	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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-1214-00 1
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	AP050068	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng	
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+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 #:	PFFY105/103A L-00	Specification:	API Spec 6A 21st /ASTM A388	API Monogram:	6A-2074	Report #:	UTP-1216-00 1	
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	AP050016	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 Φ 1.6 FBH Block Φ 3.2 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 Φ 14+ Φ 20	Acceptance Criteria:	API Spec. 6A 21st		Approved by:	Xin Zheng		
Instrmt/Ident.#:	FD14082504	Test Gain:	Φ 1.6DAC+6dB Φ 3.2DAC+6dB		Level as per UT:	II		

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/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	AP050029	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	



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050056	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		



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[illegible]

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



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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:		$\geqslant 1000\text{Uw/cm}^2$	
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	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		



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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	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		



ANLAN TECHNOLOGY (JIANGSU) CO.,LTD

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/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	AP050154	221110102Q2	Acceptable						
2	AP050157	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		