

ULTRASONIC EXAMINATION REPORT

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江苏政轩石油机械股份有限公司

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06	
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-1	
Part No.:	FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/	
Description:	4-1/16"15000psi	Body				Quantity:	1	
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3		Circular AMPS:	3200A		
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence		UV-Light Intensity:	$\geq 1000Uw/cm^2$		
Stage:	Machined	Concentration:	0.3m/100ml		Magnetizing Time:	1-3S		
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result	
1	IA011006	HC2103024-03	Acceptable					
Sketch/Inspection Coverage:								
Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.								
Evaluation & Disposition:	Found to be satisfactory							
Inspected by:	Meng Yi			Organization:	QC Department			
Approved by:	Meng Yi							
NDT Level:	MT II			Date:	2021.06			

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

[illegible]

江苏政轩石油机械股份有限公司

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:		/		Date:	2021.06	
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709		API Monogram:	6A-1748	Report #:	MT2021021901-3	
Part No.:	FC105/103-08	Material:	17-4PH 105K,Per ASTM A693				Coating:	/	
Description:	4-1/16"15000psi Stem						Quantity:	1	
Equipment:	CW-10000	Acceptance Criteria:		API 6A/PSL3		Circular AMPS:		1400A	
Test Method:	FluorescenceWet Continuous	Particle Type:		Fluorescence		UV-Light Intensity:		$\geq 1000\text{Uw}/\text{cm}^2$	
Stage:	Machined	Concentration:		0.3m/100ml		Magnetizing Time:		1-3S	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result		
1	IA041014	HC2103025-08	Acceptable						
Sketch/Inspection Coverage:									
Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.									
Evaluation & Disposition:		Found to be satisfactory							
Inspected by:		Meng Yi			Organization:	QC Department			
Approved by:		Meng Yi							
NDT Level:		MT II			Date:	2021.06			

江苏政轩石油机械股份有限公司

MAGNETIC PARTICLE INSPECTION REPORT

[illegible]

江苏政轩石油机械股份有限公司

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-5
Part No.:	FC105/103-04	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi	Body Bushing				Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3		Circular AMPS:	3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence		UV-Light Intensity:	$\geq 1000\text{Uw/cm}^2$	
Stage:	Machined	Concentration:	0.3m/100ml		Magnetizing Time:	1-3S	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA051028	HC2103023-08	Acceptable				
2	IA051011	HC2103023-08	Acceptable				
Sketch/Inspection Coverage:							
Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.							
Evaluation & Disposition:	Found to be satisfactory						
Inspected by:	Meng Yi			Organization:	QC Department		
Approved by:	Meng Yi						
NDT Level:	MT II			Date:	2021.06		

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/		Date:	2021.06
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-6
Part No.:	SEA416HLW15M	Material:	AISI 410 75K,Per NACE MR0175			Coating:	/
Description:	4-1/16"15000psi Seat					Quantity:	2
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3		Circular AMPS:	3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence		UV-Light Intensity:	≥1000Uw/cm²	
Stage:	Machined	Concentration:	0.3m/100ml		Magnetizing Time:	1-3S	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	CB06074	1502010-1	Acceptable				
2	CB06085	1502010-1	Acceptable				
Sketch/Inspection Coverage:							
Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.							
Evaluation & Disposition:	Found to be satisfactory						
Inspected by:	Meng Yi			Organization:	QC Department		
Approved by:	Meng Yi						
NDT Level:	MT II			Date:	2021.06		

江苏政轩石油机械股份有限公司

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:		/		Date:		2021.06	
Drawing #:		FC105/103-00	Specification:	API 6A-20		API Monogram:	6A-1748	Report #:		HT2021021901-1
Part No.:		FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29				Coating:		/
Description:		4-1/16"15000psi						Quantity:		1
Item		Pressure	Method			Qty		Result		
Shell		22500psi	API 6A			1		OK		
Seat		15000psi	API 6A			1		OK		
Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result		
			A	B				A	B	
1	IA001006	HC2103024-03	OK	OK						
Sketch/Inspection Coverage:										
Per Specification & Requirements: API 6A										
					Approved By:			Examined By:		
Judgments:		[<input checked="" type="checkbox"/>] Conforms			Meng Yi			Yong Zhao		
		[<input type="checkbox"/>] Does Not Conform								

江苏政轩石油机械股份有限公司
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

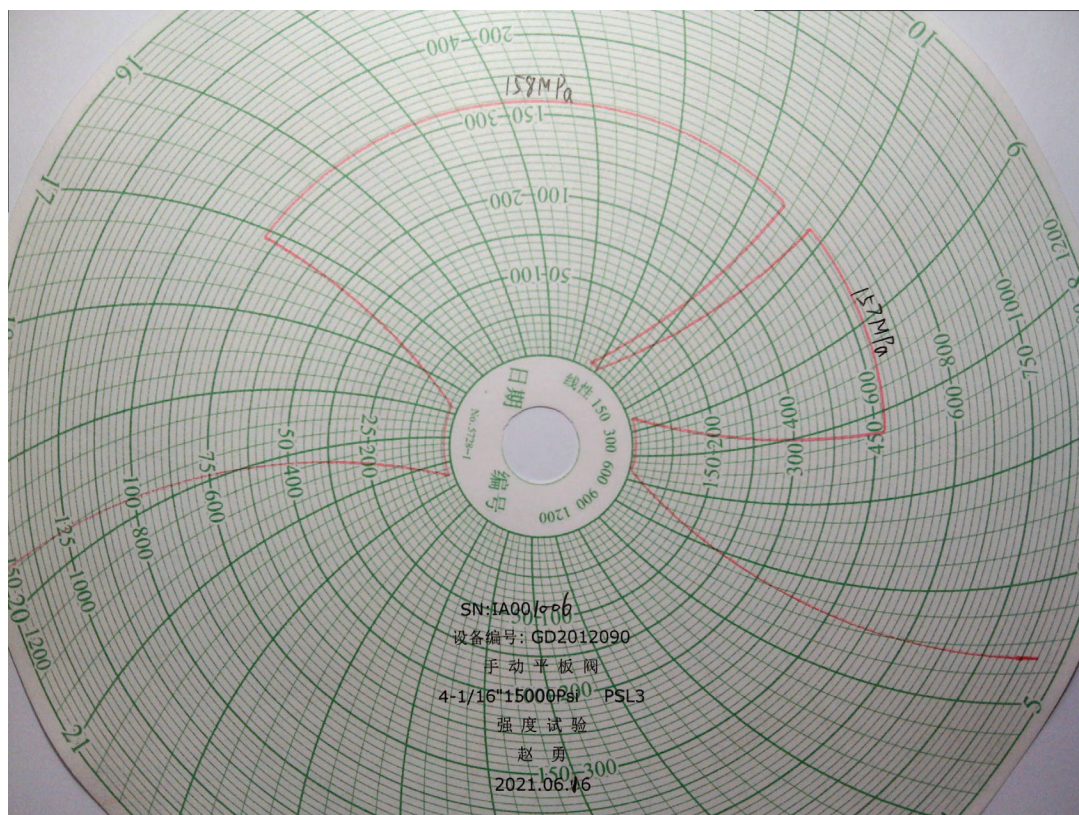
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001006	4-1/16" 15000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	157.0Mpa	156.4Mpa	180S	0.6Mpa
2	158.0Mpa	157.3Mpa	900S	0.7Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.16

江苏政轩石油机械股份有限公司
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

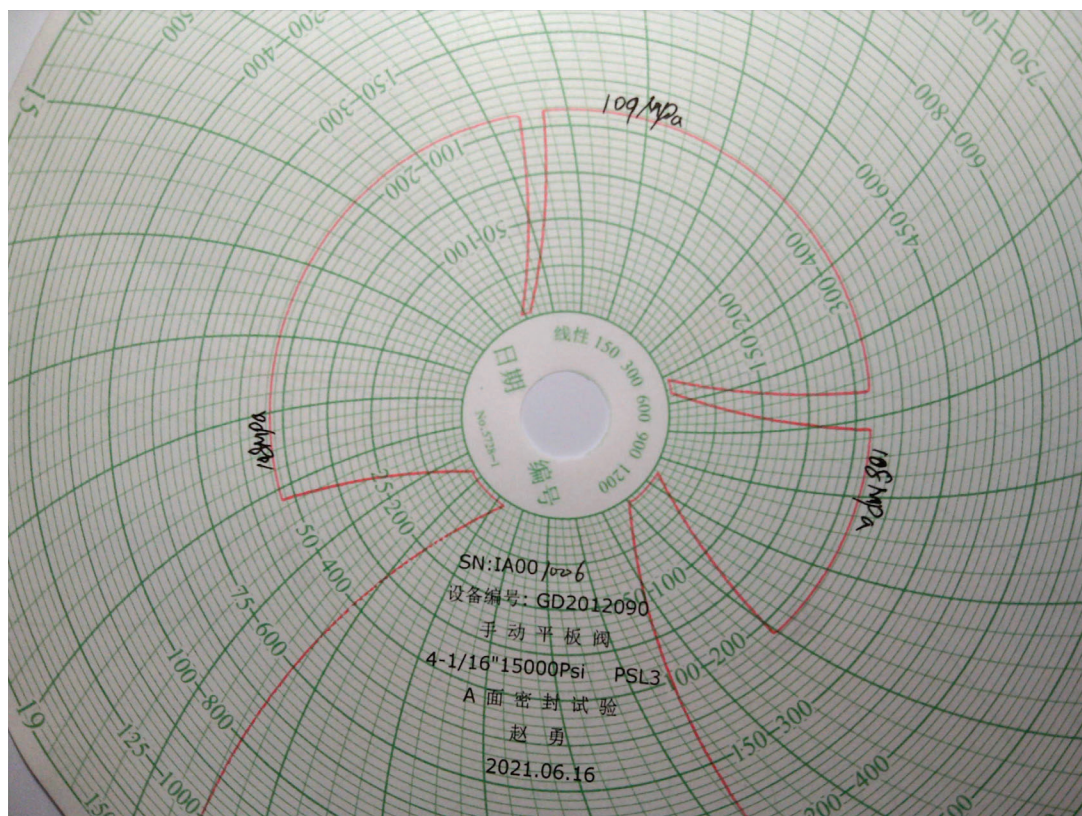
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001006	4-1/16" 15000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	108.0Mpa	104.8Mpa	180S	0.2Mpa
2	109.0Mpa	107.6Mpa	900S	1.4Mpa
3	108.0Mpa	107.3Mpa	900S	0.7Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.16

江苏政轩石油机械股份有限公司
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

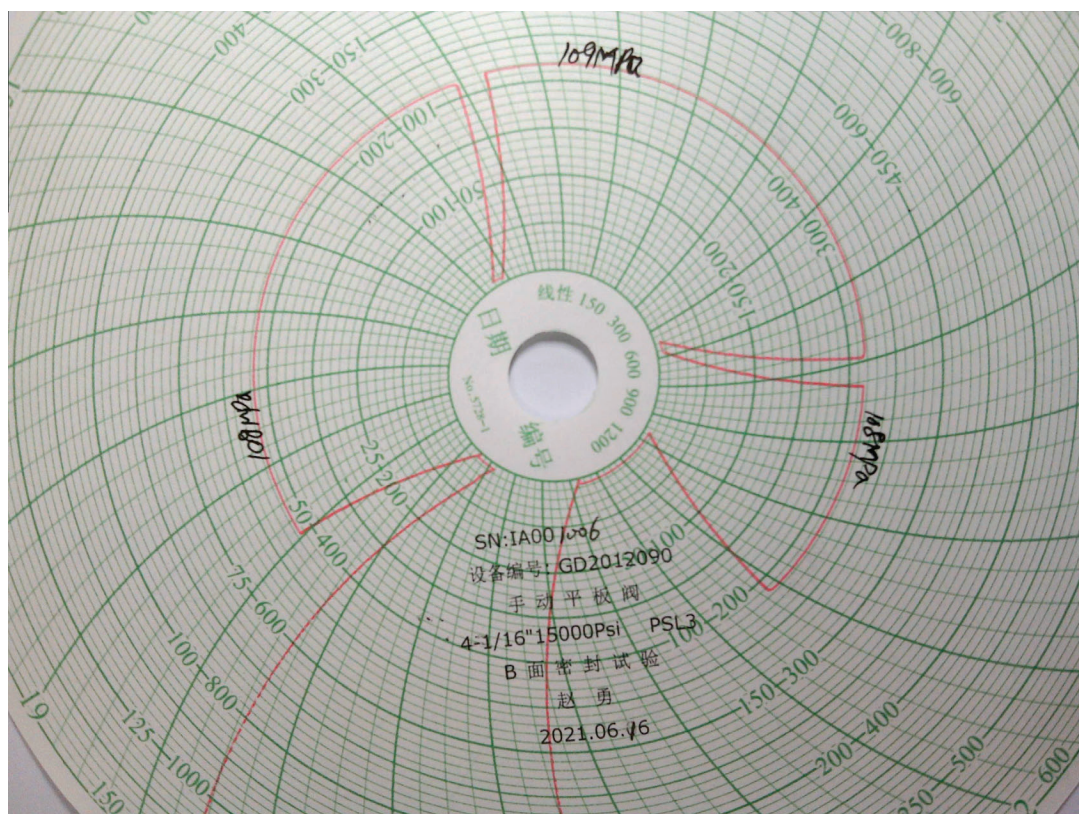
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001006	4-1/16" 15000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	108.0Mpa	107.1Mpa	180S	0.9Mpa
2	109.0Mpa	107.8Mpa	900S	1.2Mpa
3	108.0Mpa	107.3Mpa	900S	0.7Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.16

江苏政轩石油机械股份有限公司
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: _____ / _____

Quantity: _____ 1EA _____

Shipment No.: _____ Crate# IA001019 _____

Shipment Date: _____ Jun,2021 _____

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
4	Hardness Test	Page - 4-9
5	Ultrasonic Testing	Page - 10-15
6	Magnetic Particle Inspection Report	Page - 16-21
6	Hydrostatic Test	Page - 22-25

CERTIFICATE OF CONFORMITY

江苏政轩石油机械股份有限公司
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

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

ITEM:

PO #: /

SERIAL NO.: IA001019

HEAT TREAT #: HC2103024-03

PART NO.: FC105/103-00

DRAWING NO: FC105/103-01

QANTITY: 1

INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

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

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Meng Yi

EX-FACTORY DATE: Jun,2021

Customer: _____

P.O. Number: _____ / _____

江苏政轩石油机械股份有限公司

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date:Jun,2021

Certified Material Test Report

Customer		PO No.	Product		P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications											
		/	GATE VALVE		FC105/103-00	IA001019	1	4-1/16"	15000Psi	EE	PSL3	LU	API SPEC 6A											
Description																								
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qt y.	Melting Practice			Heat Treatment															
						Serial No.	Finished	Austenized	Quenched		Temper(1)		Temper(2)											
						Temp (°C)	Time (min)	Temp (°C)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Temp (°C)	Time (min)	Medium								
FC105/103-00	BODY	20410367	HC2103024-03	AISI 4130 75K Per ASTM A29	1	IA011019	Forging	870	4.0H	17	27	670	6.0H	AIR	/	/								
	BONNET	21500679	HC2103018-03	AISI 4130 75K Per ASTM A29	1	IA021014	Forging	870	4.0H	17	27	680	5.5H	AIR	/	/								
	STEM	YX1910-678	HC2103025-08	17-4PH 105K PerASTMA693	1	IA041003	Bar	1040	3.0H	17	26	630	5.0H	AIR	630	AIR								
	GATE	191-309	C190425T4	AISI 410 75K PerNACE MR0175	1	IA081006	Forging	1000	3.0H	32	36	700	6.0H	AIR	680	OIL								
	BODY BUSHING	18209112692	HC2103023-08	AISI 410 75K PerNACE MR0175	2	IA051031 IA051034	Bar	960	3.0H	39	46	720	5.0H	AIR	680	AIR								
	SEAT	15016015409	1502010-1	AISI 410 75K PerNACE MR0175	2	IA061019 IA061008	Bar	1020	3.0H	39	48	720	5.0H	AIR	670	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)	Elongat ion (%)	ROA (%)	Impact(-46°C) Impact direction (Transverse)	Hardness	Equipment Type
20410367	HC2103024-03	0.30	0.59	0.31	0.014	0.002	1.07	0.04	0.200	/	/	/	0.03	/	/	ø 0.5"x2"	QTC	685.4	593.5	22.0	65.9	66、73、69	211HB	KING-3000
21500679	HC2103018-03	0.32	0.56	0.31	0.015	0.004	1.06	0.04	0.200	/	/	/	0.03	/	/	ø 0.5"x2"	QTC	703.6	598.4	24.0	65.9	72、61、80	213HB	KING-3000
YX1910-678	HC2103025-08	0.026	0.48	0.44	0.024	0.001	15.61	4.57	/	/	/	/	3.61	/	/	ø 0.5"x2"	QTC	982.4	733.8	20.0	68.6	70、65、70	298HB	KING-3000
191-309	C190425T4	0.12	0.42	0.40	0.023	0.004	12.02	0.19	0.05	/	/	/	/	/	/	ø 0.5"x2"	QTC	721.0	531.0	38.0	60.0	59、64、63	225HB	KING-3000
18209112692	HC2103023-08	0.109	0.49	0.44	0.026	0.001	11.78	0.21	/	/	/	/	/	/	/	ø 0.5"x2"	QTC	730.5	613.9	23.0	61.1	74、68、72	221HB	KING-3000
15016015409	1502010-1	0.11	0.47	0.42	0.021	0.019	11.76	0.02	0.01	/	/	/	/	/	/	ø 0.5"x2"	QTC	685.0	530.0	25.5	64.5	60、66、67	229HB	KING-3000
Markings		Hydrostatic Test												Other Inspections				Result						
		Item	Pressure	Method									Inspection	Per Spec & Requirements										
4-1/16" 15000Psi EE, LU, PSL3, PR1		Shell	155.2Mpa		First Holding time / 3min,Second Holding time / 15min.									DIMENSIONS	DRAWINGS		OK							
		Seat	103.5Mpa		First Holding time / 3min,Second Holding time / 15min.									THREADS	GAUGED		OK							
		Seat	103.5Mpa		First Holding time / 3min,Second Holding time / 15min.									HARDNESS TESS	DRAWINGS		OK							
														DRIFT TEST	API 6A		OK							

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

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

江苏政轩石油机械股份有限公司

HARDNESS TEST REPORT

[illegible]

江苏政轩石油机械股份有限公司

HARDNESS TEST REPORT

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江苏政轩石油机械股份有限公司

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

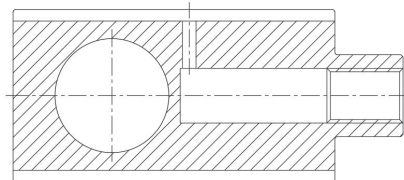
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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

[illegible]

Sketch:



Method Used:	Impact Energy: 3000Kg.	Diameter of steel ball: 10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[] Does Not Conform		

江苏政轩石油机械股份有限公司

HARDNESS TEST REPORT

[illegible]

江苏政轩石油机械股份有限公司

HARDNESS TEST REPORT

[illegible]

Sketch:



Method Used:	Impact Energy: 3000Kg.	Diameter of steel ball: 10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu

江苏政轩石油机械股份有限公司

ULTRASONIC EXAMINATION REPORT

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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/	Date:	2021.06	
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-1
Part No.:	FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29			Coating:	/
Description:	4-1/16"15000psi	Body				Quantity:	1
Equipment:	CDW-10000	Acceptance Criteria:	API 6A/PSL3	Circular AMPS:			3200A
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence	UV-Light Intensity:			≥1000Uw/ cm²
Stage:	Machined	Concentration:	0.3m/100ml	Magnetizing Time:			1-3S
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA011019	HC2103024-03	Acceptable				
Sketch/Inspection Coverage:							
Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.							
Evaluation & Disposition:	Found to be satisfactory						
Inspected by:	Meng Yi			Organization:	QC Department		
Approved by:	Meng Yi						
NDT Level:	MT II			Date:	2021.06		

江苏政轩石油机械股份有限公司

MAGNETIC PARTICLE INSPECTION REPORT

[illegible]

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:	/	Date:	2021.06	
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709	API Monogram:	6A-1748	Report #:	MT2021021901-3
Part No.:	FC105/103-08	Material:	17-4PH 105K,Per ASTM A693			Coating:	/
Description:	4-1/16"15000psi Stem					Quantity:	1
Equipment:	CW-10000	Acceptance Criteria:	API 6A/PSL3		Circular AMPS:		1400A
Test Method:	FluorescenceWet Continuous	Particle Type:	Fluorescence		UV-Light Intensity:		≥1000Uw/ cm²
Stage:	Machined	Concentration:	0.3m/100ml		Magnetizing Time:		1-3S
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result
1	IA041003	HC2103025-08	Acceptable				
Sketch/Inspection Coverage:							
Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.							
Evaluation & Disposition:	Found to be satisfactory						
Inspected by:	Meng Yi			Organization:	QC Department		
Approved by:	Meng Yi						
NDT Level:	MT II			Date:	2021.06		

江苏政轩石油机械股份有限公司

MAGNETIC PARTICLE INSPECTION REPORT

[illegible]

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

[illegible]

江苏政轩石油机械股份有限公司

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[illegible]

江苏政轩石油机械股份有限公司

HYDROSTATIC TEST REPORT

Customer:			Customer PO#:		/		Date:		2021.06	
Drawing #:		FC105/103-00	Specification:	API 6A-20		API Monogram:	6A-1748	Report #:		HT2021021901-1
Part No.:		FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29				Coating:		/
Description:		4-1/16"15000psi						Quantity:		1
Item		Pressure	Method			Qty		Result		
Shell		22500psi	API 6A			1		OK		
Seat		15000psi	API 6A			1		OK		
Item	S/N	Heat Log No.	Result		Item	S/N	Heat Log No.	Result		
			A	B				A	B	
1	IA001019	HC2103024-03	OK	OK						
Sketch/Inspection Coverage:										
Per Specification & Requirements: API 6A										
					Approved By:			Examined By:		
Judgments:		[V] Conforms			Meng Yi			Yong Zhao		
		[] Does Not Conform								

江苏政轩石油机械股份有限公司
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

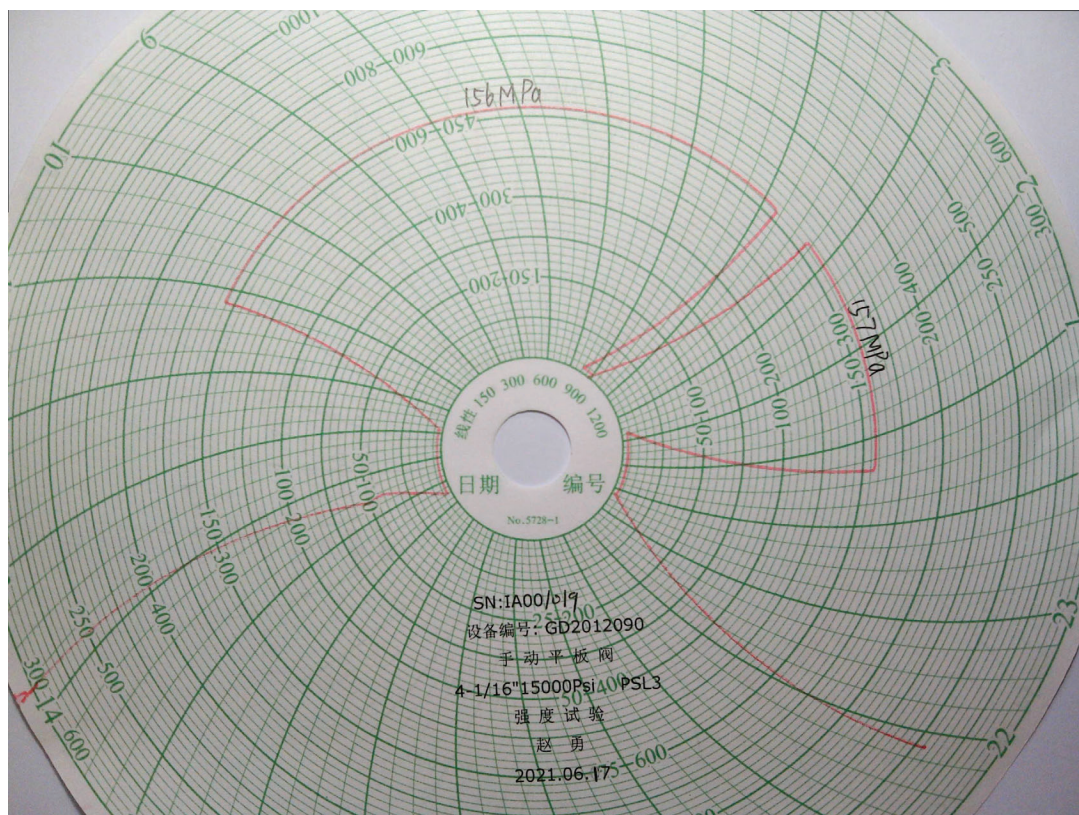
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001019	4-1/16" 15000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	157.0Mpa	156.3Mpa	180S	0.7Mpa
2	156.0Mpa	155.5Mpa	900S	0.5Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.17

江苏政轩石油机械股份有限公司
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

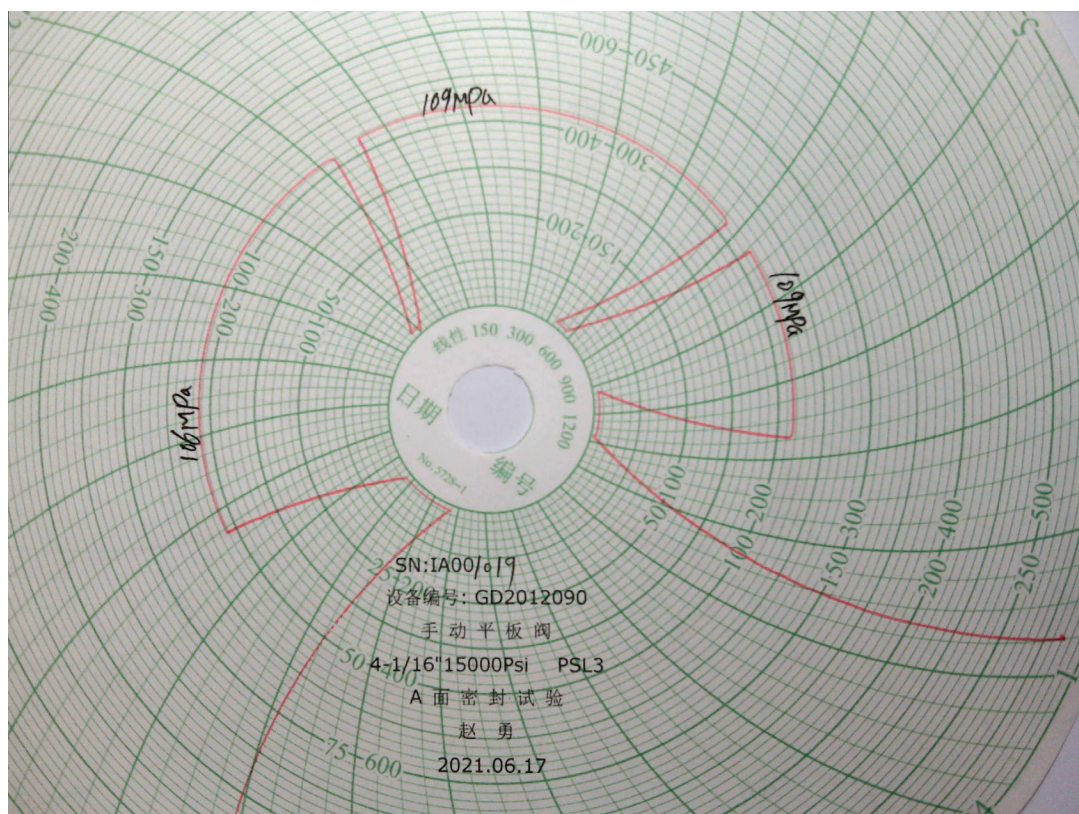
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001019	4-1/16" 15000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	109.0Mpa	107.5Mpa	180S	1.5Mpa
2	109.0Mpa	107.9Mpa	900S	1.1Mpa
3	106.0Mpa	105.7Mpa	900S	0.3Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.17

江苏政轩石油机械股份有限公司
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

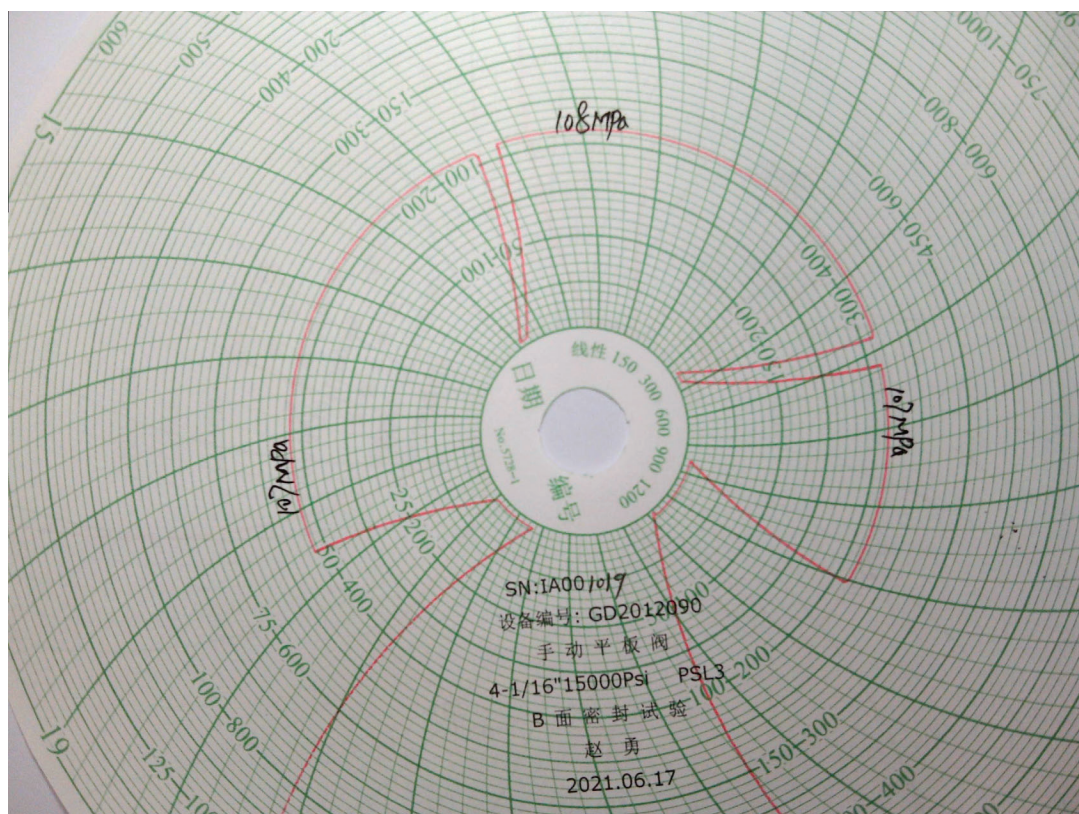
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001019	4-1/16" 15000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	107.0Mpa	106.6Mpa	180S	0.4Mpa
2	108.0Mpa	106.9Mpa	900S	1.1Mpa
3	107.0Mpa	106.1Mpa	900S	0.9Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.17

江苏政轩石油机械股份有限公司
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

REPORT INDEX

Purchase Order: _____ / _____

Quantity: _____ 1EA _____

Shipment No.: _____ Crate# IA001020 _____

Shipment Date: _____ Jun,2021 _____

Activity No.	Characteristics	Reference Page
1	CERTIFICATE OF CONFORMITY	Page - 2
3	Metallurgical Test Certificate	Page - 3
3.1	Mechanical Testing	Page - 3
3.2	Chemical Testing	Page -3
3.3	Heat Treatment	Page - 3
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CERTIFICATE OF CONFORMITY

江苏政轩石油机械股份有限公司
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

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

ITEM:

PO #: /

SERIAL NO.: IA001020

HEAT TREAT #: HC2103024-03

PART NO.: FC105/103-00

DRAWING NO: FC105/103-01

QUANTITY: 1

INSPECTION STANDARD: API Spec 6A EE, PSL3, PR1, LU

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

COMPANY NAME: JSZX

INSPECTOR: Cong Mei Zhang

(STAMP)

CHIEF ENGINEER: Meng Yi

EX-FACTORY DATE: Jun,2021

Customer: _____

P.O. Number: _____ / _____

江苏政轩石油机械股份有限公司

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

No.: AV00012

Date:Jun,2021

Certified Material Test Report

Customer		PO No.	Product	P/N	Serial No.	Qty	Size	WP (psi)	Material	PSL	Temp	Specifications													
		/	GATE VALVE	FC105/103-00	IA001020	1	4-1/16"	15000Psi	EE	PSL3	LU	API SPEC 6A													
Description																									
P/N	Parts	Melt No.	H.T. No.	Material Spec Standards	Qt Y.	Melting Practice			Heat Treatment																
						Serial No.	Finished	Austenized	Quenched		Temper(1)		Temper(2)												
						Temp (°C)	Time (min)	Medium	Start Temp	Finish Temp	Temp (°C)	Time (min)	Temp (°C)	Time (min)	Medium										
FC105/103-00	BODY	20410367	HC2103024-03	AISI 4130 75K Per ASTM A29	1	870	4.0H	WATER	17	27	670	6.0H	AIR	/	/										
	BONNET	21500679	HC2103018-03	AISI 4130 75K Per ASTM A29	1	870	4.0H	WATER	17	27	680	5.5H	AIR	/	/										
	STEM	YX1910-678	HC2103025-08	17-4PH 105K PerASTMA693	1	1040	3.0H	WATER	17	26	630	5.0H	AIR	630	AIR										
	GATE	191-309	C190425T4	AISI 410 75K PerNACE MR0175	1	1000	3.0H	OIL	32	36	700	6.0H	AIR	680	OIL										
	BODY BUSHING	18209112692	HC2103023-08	AISI 410 75K PerNACE MR0175	2	960	3.0H	OIL	39	46	720	5.0H	AIR	680	AIR										
	SEAT	15016015409	1502010-1	AISI 410 75K PerNACE MR0175	2	1020	3.0H	OIL	39	48	720	5.0H	AIR	670	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)	Elongat ion (%)	ROA (%)	Impact(46°C) Impact direction (Transverse)	Hardness	Equipment Type	
20410367	HC2103024-03	0.30	0.59	0.31	0.014	0.002	1.07	0.04	0.200	/	/	/	/	0.03	/	/	ø 0.5"x2"	QTC	685.4	593.5	22.0	65.9	66、73、69	211HB	KING-3000
21500679	HC2103018-03	0.32	0.56	0.31	0.015	0.004	1.06	0.04	0.200	/	/	/	/	0.03	/	/	ø 0.5"x2"	QTC	703.6	598.4	24.0	65.9	72、61、80	213HB	KING-3000
YX1910-678	HC2103025-08	0.026	0.48	0.44	0.024	0.001	15.61	4.57	/	/	/	/	3.61	/	/	/	ø 0.5"x2"	QTC	982.4	733.8	20.0	68.6	70、65、70	298HB	KING-3000
191-309	C190425T4	0.12	0.42	0.40	0.023	0.004	12.02	0.19	0.05	/	/	/	/	/	/	/	ø 0.5"x2"	QTC	721.0	531.0	38.0	60.0	59、64、63	225HB	KING-3000
18209112692	HC2103023-08	0.109	0.49	0.44	0.026	0.001	11.78	0.21	/	/	/	/	/	/	/	/	ø 0.5"x2"	QTC	730.5	613.9	23.0	61.1	74、68、72	221HB	KING-3000
15016015409	1502010-1	0.11	0.47	0.42	0.021	0.019	11.76	0.02	0.01	/	/	/	/	/	/	/	ø 0.5"x2"	QTC	685.0	530.0	25.5	64.5	60、66、67	229HB	KING-3000
Markings		Hydrostatic Test											Other Inspections			Result									
		Item			Pressure		Method						Inspection		Per Spec & Requirements		Result								
		Shell			155.2Mpa		First Holding time / 3min,Second Holding time / 15min.						DIMENSIONS		DRAWINGS		OK								
		Seat			103.5Mpa		First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.						THREADS		GAUGED		OK								
		Seat			103.5Mpa		First Holding time / 3min,Second Holding time / 15min,Third Holding time / 15min.						HARDNESS TESS		DRAWINGS		OK								
4-1/16" 15000Psi BX155 EE, LU, PSL3, PR1														DRIFT TEST		API 6A		OK							

This is to certify that all above items have been tested and inspected per scope of specifications, drawings, and the purchase orderand have been found to be satisfactory.
The information in this report is true and correct to our knowledge.

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

江苏政轩石油机械股份有限公司

HARDNESS TEST REPORT

[illegible]

江苏政轩石油机械股份有限公司

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

[illegible]

江苏政轩石油机械股份有限公司

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

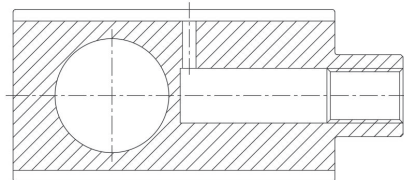
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Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

[illegible]

Sketch:



Method Used:	Impact Energy: 3000Kg.	Diameter of steel ball: 10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu
	[] Does Not Conform		

江苏政轩石油机械股份有限公司

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

[illegible]

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

HARDNESS TEST REPORT

[illegible]

Sketch:



Method Used:	Impact Energy: 3000Kg.	Diameter of steel ball: 10mm	
Acceptable Hardness:	197HBW-235HBW	Approved By:	Examined By:
Judgments:	[V] Conforms	Meng Yi	Guo Feng Hu

ULTRASONIC EXAMINATION REPORT

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ULTRASONIC EXAMINATION REPORT

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ULTRASONIC EXAMINATION REPORT

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ULTRASONIC EXAMINATION REPORT

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ULTRASONIC EXAMINATION REPORT

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ULTRASONIC EXAMINATION REPORT

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江苏政轩石油机械股份有限公司

MAGNETIC PARTICLE INSPECTION REPORT

Customer:			Customer PO#:		/		Date:	2021.06	
Drawing #:	FC105/103-00	Specification:	API Spec 6A /ASTM E709		API Monogram:	6A-1748	Report #:	MT2021021901-1	
Part No.:	FC105/103-01	Material:	AISI 4130 75K,Per ASTM A29					Coating:	/
Description:	4-1/16"15000psi	Body					Quantity:	1	
Equipment:	CDW-10000	Acceptance Criteria:		API 6A/PSL3		Circular AMPS:		3200A	
Test Method:	FluorescenceWet Continuous	Particle Type:		Fluorescence		UV-Light Intensity:		$\geq 1000\text{Uw}/\text{cm}^2$	
Stage:	Machined	Concentration:		0.3m/100ml		Magnetizing Time:		1-3S	
Item	S/N	Heat Log No.	Result	Item	S/N	Heat Log No.	Result		
1	IA011020	HC2103024-03	Acceptable						
Sketch/Inspection Coverage:									
Fluorescent magnetic particle inspection was performed on all accessible wetted/sealing surfaces.									
Evaluation & Disposition:	Found to be satisfactory								
Inspected by:	Meng Yi			Organization:	QC Department				
Approved by:	Meng Yi								
NDT Level:	MT II			Date:	2021.06				

江苏政轩石油机械股份有限公司

MAGNETIC PARTICLE INSPECTION REPORT

[illegible]

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

[illegible]

江苏政轩石油机械股份有限公司

MAGNETIC PARTICLE INSPECTION REPORT

[illegible]

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

[illegible]

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

MAGNETIC PARTICLE INSPECTION REPORT

[illegible]

江苏政轩石油机械股份有限公司

HYDROSTATIC TEST REPORT

[illegible]

江苏政轩石油机械股份有限公司
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

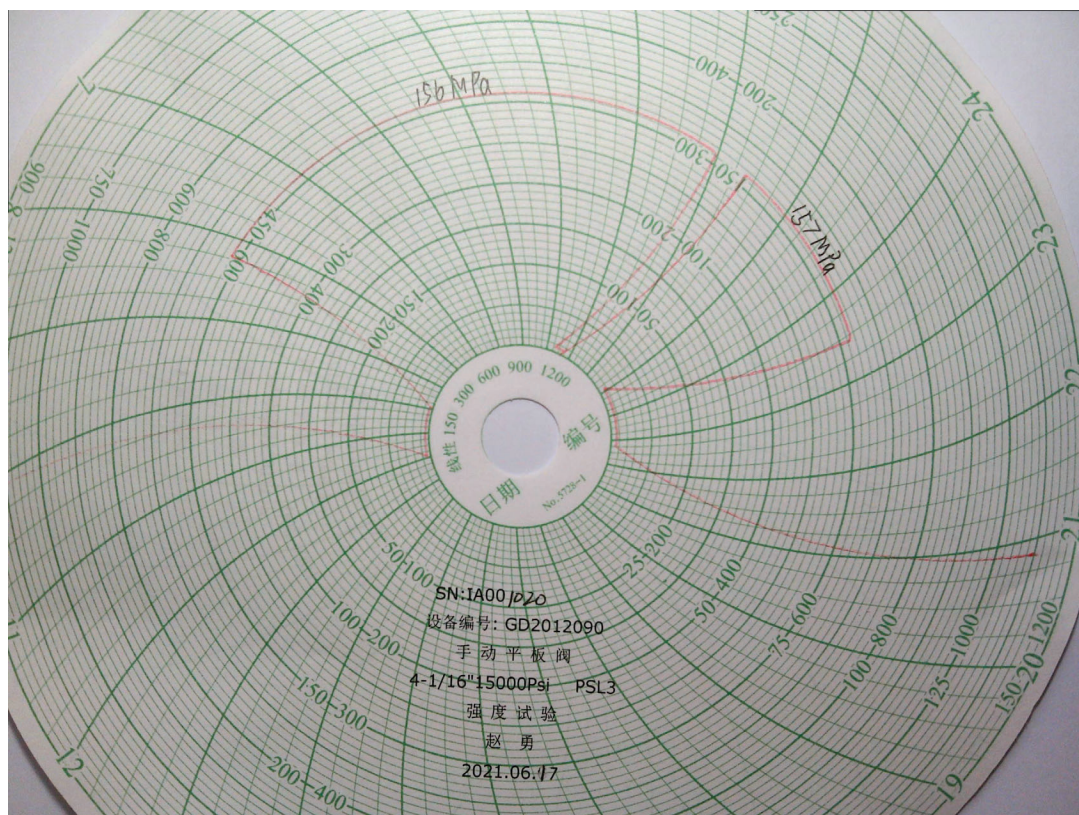
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001020	4-1/16" 15000Psi	API 6A	Body	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	157.0Mpa	156.2Mpa	180S	0.8Mpa
2	156.0Mpa	155.6Mpa	900S	0.4Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.17

江苏政轩石油机械股份有限公司
Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

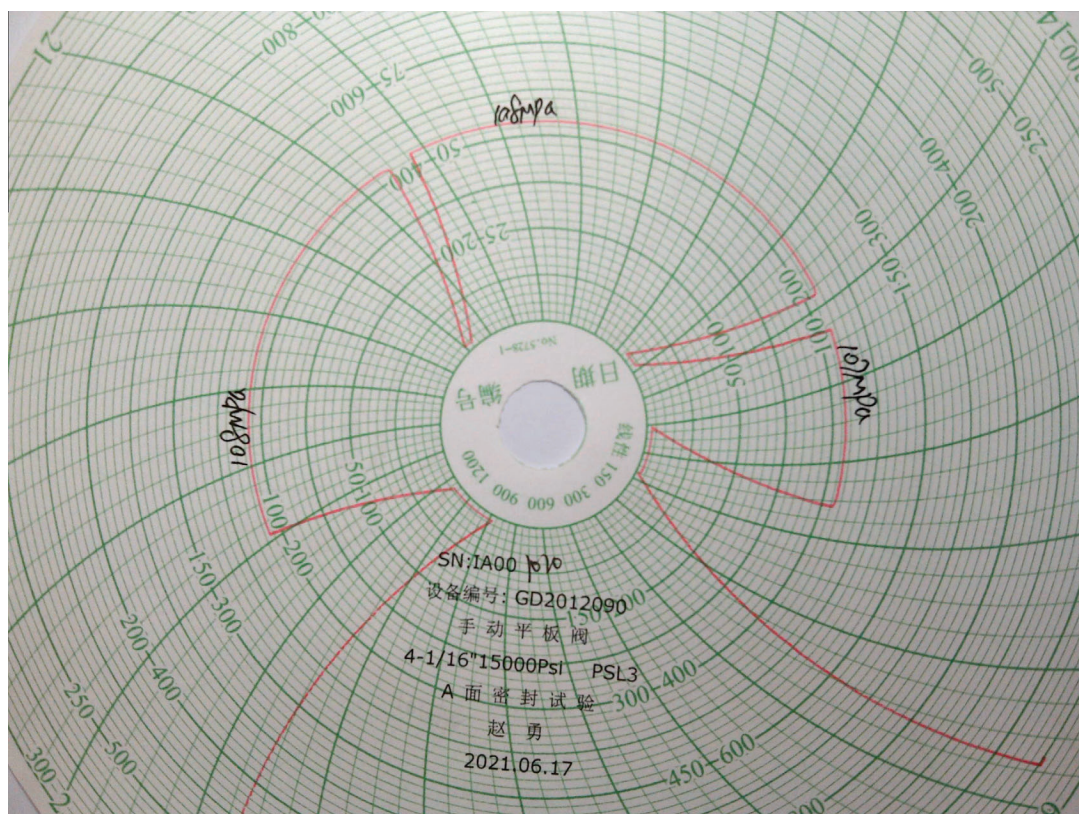
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001020	4-1/16" 15000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	107.0Mpa	106.7Mpa	180S	0.3Mpa
2	108.0Mpa	107.2Mpa	900S	0.8Mpa
3	108.0Mpa	107.4Mpa	900S	0.6Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.17

江苏政轩石油机械股份有限公司

Jiangsu Zhengxuan Petroleum Machinery Co.,Ltd

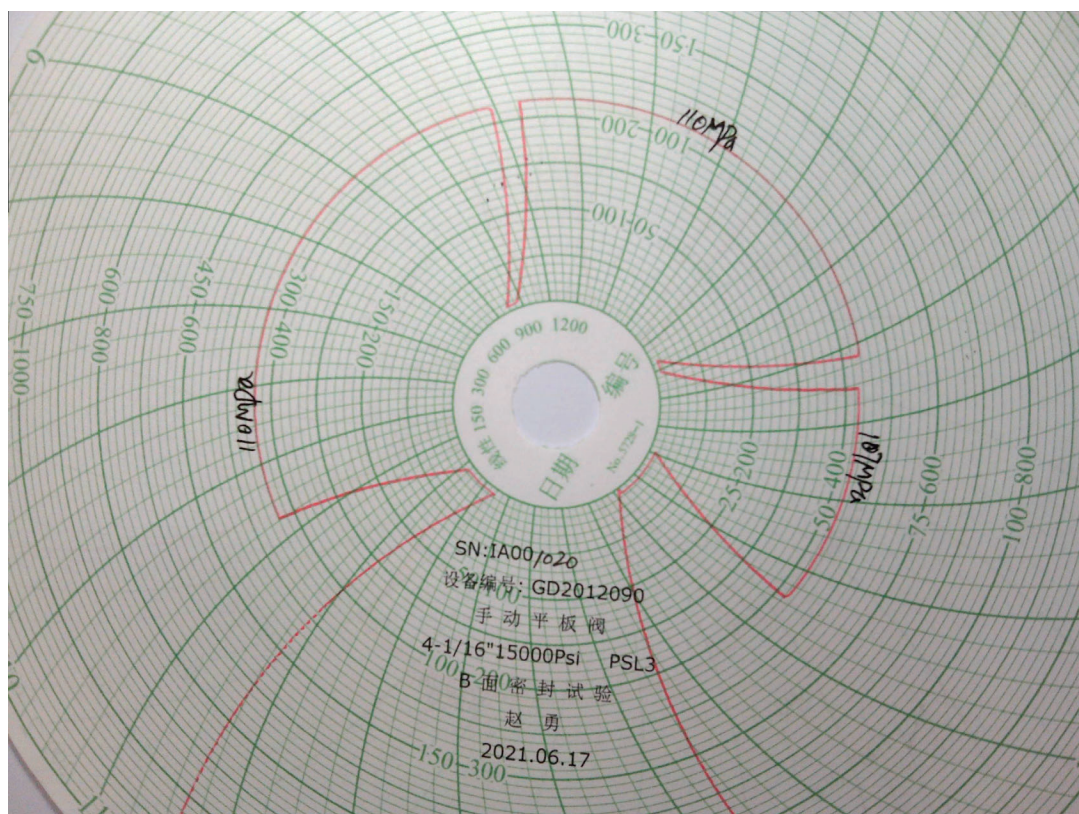
Pressure Test Report

Product Information

PRODUCT NAME	PRODUCT NO.	SPECS	PRESSURE TEST STANDARDS	TEST PART	EQUIPMENT NO.	BRAND
GATE VALVE	IA001020	4-1/16" 15000Psi	API 6A	Seat	GD2012090	

Test Data

LEVEL	INITIAL PRESSURE	TERMINATED PRESSURE	HOLDING TIME	PRESSURE DROPPING
1	107.0Mpa	106.4Mpa	180S	0.6Mpa
2	110.0Mpa	108.7Mpa	900S	1.3Mpa
3	110.0Mpa	108.5Mpa	900S	1.5Mpa



TESTED BY:	INSPECTED BY:	REVIEWED BY:	DATE:
Kai Guo	Yong Zhao	Meng Yi	2021.06.17