检验报告 Test Report

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				ハリダネ「外		
样品名 Sample		Manual gate valve	检验类别 Test Kind	Commission inspection		
型号规 Model,Ty		1 13/16×10000PSI FLS LU PR2	样品等级 Grade	Qualified		
委托单 Entrusted Ent			商标 Brand	I		
委托单位 Address of En			送样地点 Sampling Location	Quality dept.		
样品制道 Sample Manu	10.000 - e		送样人员 Client Representative			
样本基 Batch Qua	-		送样日期 Receipt Date	2019-10-23		
样品数 Sample Qua		1台	生产日期 Producing Date	2019-09		
样品特性和 Sample Desc		No abnormal appearance of the sample	样品编号 Batch No.	W1905073-2019		
检验环 Environmental		温度 <u>19~26</u> ℃;湿度 <u>/</u> %;气压 <u>/</u> hPa;	检验日期 Test Date	2019-10-23~2019-10-31		
检验	产品 标准	API Spec 6A-2018				
依据 Test Standard	检验 方法 标准	API Spec 6A-2018				
检验要 Test Iter		PR2 Performance qualification test				
检验结论 Test Conclusion		The sample is inspected this time and the items tested are qualified.				
备注 Note		 Specification level: PSL3, material level: EE; This report contains a cover; The "/" symbol indicates that this item has no content. 				

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	·		Y		中年4月
S/N	Testing item	Technical requirements	Test results	deter minat ion	Note
1	Force or torque measurement	The valve is closed, the test pressure is raised to the rated working pressure of 69.0 MPa, the valve is opened, and the opening torque of the valve is measured. The opening torque should be no more than 400N • m, and there should be no jamming	The valve is closed, the test pressure is raised to 71.9MPa, the valve is opened, the opening torque is 177N • m, and there is no jamming.	Quali fied	/
2	Dynamic test at room temperature	The test medium (≤1% test pressure) is filled at the downstream end of the valve, the upstream end is pressurized to the rated working pressure of 69.0 MPa, and the full pressure difference is opened. After fully open at ≥50% test pressure, the valve is kept in the above steps. Under pressure, it should be completely closed. After closing, the downstream end is relieved to ≤ 1% of the test pressure, and the above steps are repeated 160 times. The opening and turning torques at the beginning and end of the cycle are measured and recorded.	Successfully completed 160 dynamic cycle pressure tests. First opening torque: 176N • m; turning torque: (134 ~ 223) N • m. Last opening torque: 169 N • m.	Quali	Test data sheet can be foun d on pages 07~1 2

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S/N	Testing item	Technical requirements	Test results	deter minat ion	Note
3	Dynamic test at the highest rated temperature	At (121 ~ 132) ° C, using gas as test medium, the downstream end of the valve is filled with test medium (≤1% test pressure), the upstream end is pressurized to the rated working pressure of 69.0MPa, and the whole pressure difference is opened, at ≥50% After the test pressure is fully opened, the valve should be completely closed under the pressure defined by the above steps. After the shutdown, the downstream end is relieved to ≤ 1% of the test pressure, and the above steps are repeated 20 times. The opening and turning torques at the beginning and end of the cycle are measured and recorded.	At 122.5~125.8 °C, 20 dynamic cycle pressure tests were successfully completed: First opening torque: 213 N•m: Rotational torque: (208 ~ 232) N•m: Last opening torque: 232 N•m	Quali fied	The test curve can be foun d on pages 13~1 6.
4	Body pressure test at maximum rated temperature	At (121~132) °C, the gate valve is in a partially open position, the rated working pressure is 69.0MPa, and the pressure is maintained for 1 hour without releasing the pressure.		Quali fied	Test curve see page 17

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CAI	T	Taskaisal assasiasassasta	T+	deter	NT
S/N	Testing item	Technical requirements	Test results	minat	Note
		mi .		ion	
		The pressure change			
		observed on the pressure			
		measuring device during			
		the holding pressure			
		should be less than 3.45			
	*	MPa.	4 篇 4 4 5 1	_	
		At (121 ~ 132) ° C, at the			
	1	end of the valve body			
		pressure test, the gate	100		
	1/4	valve is closed, the rated			
		TO SECURE AND ADDRESS OF THE PARTY OF THE PA			
		working pressure is	A 7		
	191	maintained at the upstream	H 1 1 1		
	131	end of the valve plate at	Under the conditions of		Test
	Seat pressure	69.0 MPa, the downstream	125. 4~125. 9 ° C and		curve
5	test at the		70.3 MPa, the pressure	Quali	see
	highest rated	A STATE OF THE PARTY OF THE PAR	was maintained for 1	fied	page
	temperature	relieved after holding for	hour, and the pressure	1	18
		1 hour.	drop was 0.1 MPa.	Ž.	
		The pressure change		3	
	No.	observed on the pressure	The second 15 1		
	No.	measuring device during			
		the holding pressure			
		should be less than 3.45			
		MPa.			
		At (121 ~ 132) ° C, the	N.147		
		valve is subjected to a	Under the conditions of		
	Seat low	pressure difference of 5%	122.8~123.1 ° C and 4.4		Test
	pressure test at	to 10% of the rated	MPa, the pressure was	Quali	curve
6	maximum	pressure, the pressure is	maintained for 1 hour,	fied	see
	rated	applied to the upstream end	and the pressure drop		page
	temperature	of the shutter, and the	was 0.0 MPa.		19
		pressure is released at the			
L	L	probbato ib refeabed at the	L		

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S/N	Testing item	Technical requirements downstream end, and the pressure is maintained for 1 hour.	Test results	deter minat ion	Note
		The pressure change observed on the pressure measuring device during holding pressure should be less than 5%.			
7	Dynamic test at the lowest rated temperature	At (-46 ~ -57) ° C, the gas is used as the test medium, the downstream end of the valve is filled with the test medium (≤ 1% test pressure), the upstream end is pressurized to the rated working pressure of 69.0MPa, and the whole pressure difference is opened, at ≥ After fully opening at 50% test pressure, the valve should be completely closed under the pressure defined by the above steps. After closing, the downstream end is relieved to ≤ 1% of the test pressure, and the above cycle is repeated 20 times. The opening and turning torques at the beginning and end of the cycle are measured and recorded.	Completed 20 dynamic cycle pressure tests at -48.6 to -47.5 °C: First opening torque: 278N • m: Rotational torque: (205 ~ 278) N • m: Last opening torque: 209 N • m	Quali	The test curve can be foun d on pages 20~2 3.

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S/N	Testing item	Technical requirements	Test results	deter minat ion	Note
8	Body pressure test at the lowest rated temperature	At (-46~-57) ° C, the gate valve is in the partially open position, the rated working pressure is 69.0MPa, and the pressure is maintained for 1 hour without releasing the pressure. The pressure change observed on the pressure measuring device during the holding pressure should be less than 3.45 MPa.	Under the conditions of -48.3 to -47.9° C and 71.1 MPa, the pressure was maintained for 1 hour, and the pressure drop was 0.6 MPa.	Quali fied	Test curve see page 24
9	Seat pressure test at the lowest rated temperature	At (-46 ~ -57) ° C, at the end of the valve body pressure test, the gate valve is closed, the rated working pressure is maintained at the upstream end of the valve plate at 69.0 MPa, the downstream end releases the pressure, and the pressure is released after 1 hour of holding pressure. The pressure change observed on the pressure measuring device during the holding pressure should be less than 3.45 MPa.	Under the conditions of -48.2° C and 70.3 MPa, the pressure was maintained for 1 hour, and the pressure drop was 0.2 MPa.	Quali	Test curve see page 25

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S/N	Testing item	Technical requirements	Test results	deter minat ion	Note
10	Seat low pressure test at the lowest rated temperature	At (-46 ~ -57) ° C, the valve is subjected to a pressure difference of 5% to 10% of the rated pressure, the pressure is applied to the upstream end of the shutter, and the pressure is released at the downstream end, and the pressure is maintained for 1 hour. The pressure change observed on the pressure measuring device during holding pressure should be less than 5%.	Under the conditions of -48.9° C and 3.8 MPa, the pressure was maintained for 1 hour, and the pressure drop was 0.0 MPa.	Quali fied	Test curve see page 26
11	Body pressure / temperature cycle test	Warming up to room temperature, the gate valve is partially opened: the test pressure is 69.0 MPa at room temperature, and the pressure is maintained at 50% to 100% of the test pressure during the rise to the highest temperature (121-132) °C; at least the test pressure is 69.0 MPa. Press for 1 hour: The pressure change observed on the pressure measuring device during the holding pressure	Under the test pressure of 72.9 MPa, the pressure was maintained for 1 hour, and the pressure drop was 0.4	Quali fied	Test curve see page 27

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S/N	Testing item	Technical requirements	Test results	deter minat ion	Note
		should be less than 3.45 MPa. When the test pressure is maintained at 50% to 100% of 69.0 MPa, the temperature is lowered to the lowest temperature at (-46 to -57) °C, and the pressure is kept at the test pressure of 69.0 MPa for at least 1 hour; when the temperature is raised to room temperature, the test pressure is maintained at 69.0 MPa. 50%-100%, pressure relief. The pressure change observed on the pressure measuring device during the holding pressure should be less than 3.45 MPa.	(35.1 ~ 68.8) MPa, the temperature was lowered to -48.5 ° C, 72.7 MPa, the pressure was maintained for 1 hour, and the pressure drop was 0.5 MPa. The temperature was raised to room temperature, and the pressure was maintained at (53.5 to 54.2) MPa, and the	Quali	Test curve see page 27
		Raise to the highest temperature at (121 ~ 132) ° C, apply the test pressure 69.0MPa, at least 1 hour, and then relieve pressure; The pressure change observed on the pressure measuring device during the holding pressure should be less than 3.45	123.3 ° C, and under the condition of 70.5 MPa, the pressure was maintained for 1 hour, and the pressure drop was -1.7 MPa.	Quali fied	Test curve see page 38

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S/N	Testing item	Technical requirements	Test results	deter minat ion	Note
	MIXAGO SE	MPa. The temperature was lowered to a minimum temperature of (-46 to -57) ° C; a test pressure of 69.0 MPa was applied, and the pressure was maintained for at least 1 hour, and then the pressure	The temperature was lowered to -48.4 ° C, and under the condition		Test
		was released, and then the temperature was raised to room temperature. The pressure change observed on the pressure measuring device during the holding pressure should be less than 3.45 MPa.	of 69.9 MPa, the pressure was maintained for 1 hour, and the pressure drop was 0.5 MPa.	Quali fied	see page 29
12	Valve body pressure test at room temperature	For air pressure test, the gate valve should be completely sunk in the water and partially opened. It is kept at the rated working pressure of 69.0 MPa for 1 hour, and the pressure is not released after the test.	71.5 MPa, the pressure	Quali fied	Test curve see page 30

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S/N	Testing item	Technical requirements	Test results	deter minat ion	Note
		There should be no visible continuous bubbles during the dwell period. The pressure change observed on the pressure measuring device should be less than 3.45 MPa.			
13	Seat packing test at room temperature	At the end of the valve body pressure holding test, the valve is closed, the downstream end is released, and the upstream end maintains the rated working pressure of 69.0 MPa. The pressure is released after not less than 15 minutes. There should be no visible continuous bubbles during the dwell period. The pressure change observed on the pressure measuring device should be less than 3.45 MPa.	Under the pressure of 70.3MPa, the pressure is kept for 60min, there is no visible bubble in the pool, and the pressure drop is 0.2MPa.	Quali fied	Test curve see page 31
14	Valve body low pressure test at room temperature	The shutter should be partially opened, and kept at a rated working pressure of 5% to 10% for 1 hour, and the pressure is released after the pressure keeping period. There should be no visible continuous bubbles during	A STATE OF THE STA	Quali fied	See page 32 for disint egrati on photo s

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S/N	Testing item	Technical requirements	Test results	deter minat ion	Note
		the dwell period. The pressure change observed on the pressure measuring device should be less than 5%.			
15	Seat low pressure test at room temperature	Apply a differential pressure of 5% to 10% of the rated working pressure (the two-way valve should be in each direction) and release the pressure after holding for 1 hour. There should be no visible continuous bubbles during the dwell period. The pressure change observed on the pressure measuring device should be less than 5%.	Left end: Under the pressure of 3.9 MPa, the pressure was kept for 1 hour, and there was no visible bubble in the pool, and the pressure drop was 0.1 MPa. Right end: Under the pressure of 3.7 MPa, the pressure was kept for 1 hour, and there was no visible bubble in the pool, and the pressure drop was 0.1 MPa.	Quali fied	Test curve see page 33,34
16	Final force or torque measurement	The valve is closed, the test pressure is raised to the rated working pressure of 69.0 MPa, the valve is opened, and the opening torque of the valve is measured. The opening torque should be no more than 400N •m and there should be no jamming.	The valve is closed, the test pressure rises to 71.9MPa, the valve is opened, the opening torque is 204N • m, and there is no jamming.	Quali fied	/
17	Post test	The tested prototype should be disassembled and tested. All related items should be	Tested prototype disintegration and inspection. Does not	Quali fied	/

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S/N	Testing item	Technical requirements	Test results	deter minat ion	Note
		photographed. Defects that do not meet any performance requirements should not be included.	meet any performance		

,			perature on/off cytest data sheet	cle	.
Name	Manual gate valv			16×10000PSI FLS	LU PR2
Number of switches	Pre-opening pressure MPa	Pressure after full opening MPa	Pressure after full opening MPa	Maximum torque during opening process (N·m)	Maximum torque during shutdown (N·m)
第1次	70.8	38.9	38.9	176	63
第2次	70.7	39.5	38.7	203	71
第 3 次	70.9	38.9	38.9	176	66
第 4 次	70.9	39.9	39.9	139	72
第5次	71.0	39.5	38.1	193	59
第6次	70.7	38.9	38.9	158	60
第7次	70.7	39.9	38.7	164	63
第8次	71.0	38.9	38.9	165	81
第9次	70.7	39.5	38.9	163	88
第10次	70.7	38.9	38.9	187	84
第11次	70.7	39.9	38.9	158	79
第12次	70.8	38.9	39.9	153	76
第13次	70.7	38.9	38.1	181	79
第 14 次	70.9	39.5	38.9	189	76
第 15 次	70.7	38.9	38.7	203	90
第 16 次	70.7	39.9	38.9	176	97
第17次	70.8	38.9	39.9	139	39
第18次	70.7	38.9	38.1	193	92
第19次	70.9	39.4	39.9	207	95
第 20 次	71.0	38.9	38.9	212	63
第 21 次	70.7	39.5	38.9	187	68
第 22 次	70.7	38.9	38.7	175	94

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第 23 次	70.8	38.9	38.9	180	92
第 24 次	70.7	39.5	38.9	183	92
第 25 次	70.7	38.9	38.7	188	95
第 26 次	70.7	39.9	38.9	221	63
第 27 次	70.8	38.9	39.9	179	86
第 28 次	70.7	38.9	38.1	155	67
第 29 次	70.9	39.4	39.9	148	69
第 30 次	70.9	38.9	38.9	164	63
			perature on/off cy test data sheet		
Name	Manual gate valve	Description	1 13/	16×10000PSI FLS I	
Number of switches	Pre-opening pressure MPaMPa	Full-opening pressure MPaMPa	Full-opening pressure MPaMPa	Maximum torque during opening process (N·m)	Maximum torque during shutdown (N·m)
第 31 次	70.9	38.9	38.9	164	63
第 32 次	70.7	39.5	38.9	168	71
第 33 次	70.7	38.9	38.7	150	66
第 34 次	70.8	39.9	38.9	155	72
第 35 次	70.7	38.9	39.9	155	59
第 36 次	70.9	38.9	38.1	158	60
第 37 次	70.9	39.4	38.7	164	63
第 38 次	71.0	38.9	38.9	165	8 1
第 39 次	70.7	39.5	38.9	163	88
第 40 次	70.7	38.9	38.7	187	84
第 41 次	70.8	39.9	38.9	158	79
第 42 次	70.7	38.9	39.9	153	76
第 43 次	70.9	38.9	38.1	181	79
第 44 次	70.7	39.5	38.9	189	76
第 45 次	70.7	38.9	38.7	203	90
第 46 次	70.8	39.9	38.9	176	97
第 47 次	70.7	38.9	39.9	139	39
第 48 次	70.9	38.9	38.1	193	92
第 49 次	70.9	39.4	39.9	207	95
第 50 次	71.0	38.9	38.9	212	63
h-h- = - >//.	70.7	20.5	20.0	107	CO

38.9

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70.7

39.5

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第 52 次	70.7	38.9	38.7	175	94
第 53 次	70.8	39.9	38.9	180	92
第 54 次	70.7	39.5	38.9	183	92
第 55 次	70.7	38.9	38.7	188	95
第 56 次	70.8	39.9	38.9	221	63
第 57 次	70.7	38.9	39.9	179	86
第 58 次	70.9	38.9	38.1	155	67
第 59 次	70.9	39.4	39.9	148	69
第 60 次	70.8	39.9	39.4	166	56

Nome	Manual gate valve		1 13/	16×10000PSI FLS	LU PR2
Name Number of switches	Pre-opening pressure MPaMPa	Full-opening pressure MPaMPa	Full-opening pressure MPaMPa	Maximum torque during opening process (N·m)	Maximum torque during shutdown (N·m)
第61次	71.0	38.9	38.9	163	71
第 62 次	70.8	39.9	39.4	166	56
第 63 次	70.7	39.5	38.9	169	92
第 64 次	70.7	38.9	38.7	156	95
第 65 次	70.7	39.5	38.9	147	63
第 66 次	70.7	38.9	38.7	144	64
第 67 次	70.8	39.9	38.9	165	73
第 68 次	70.7	38.9	39.9	134	60
第 69 次	70.7	39.5	38.9	155	59
第 70 次	70.7	38.9	38.7	158	60
第71次	70.8	39.9	38.9	164	63
第72次	70.7	39.5	38.9	168	71
第73次	70.7	38.9	38.7	150	66
第 74 次	70.8	39.9	38.9	155	72
第 75 次	70.7	38.9	39.9	155	59
第 76 次	69.9	38.9	38.1	158	60
第77次	70.7	38.9	38.7	164	63
第 78 次	70.8	39.9	38.9	168	71
第 79 次	70.7	38.9	39.9	150	66
第 80 次	69.9	38.9	38.1	155	72

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第 81 次	69.9	39.4	39.9	155	59
第 82 次	70.0	38.9	38.9	158	60
第83次	70.7	38.9	38.7	164	63
第 84 次	70.8	39.9	38.9	168	71
第 85 次	70.7	38.9	38.7	150	66
第86次	70.8	39.9	38.9	155	60
第87次	70.7	38.9	39.9	162	59
第88次	69.9	38.9	38.1	159	60
第89次	70.9	39.4	39.9	167	63
第 90 次	70.8	38.9	38.8	158	61

Name	Manual gate valve		1 13/	16×10000PSI FLS	LU PR2
Number of switches	Pre-opening pressure MPaMPa	Full-opening pressure MPaMPa	Full-opening pressure MPaMPa	Maximum torque during opening process (N·m)	Maximum torque during shutdown (N·m)
第91次	70.0	38.9	38.9	155	71
第 92 次	70.7	39.5	38.9	149	58
第93次	70.7	38.9	38.7	153	53
第 94 次	70.7	38.9	38.7	134	60
第95次	70.8	39.9	38.9	158	59
第96次	70.7	38.9	38.7	155	60
第 97 次	70.7	38.9	38.7	158	63
第 38 次	70.8	39.9	38.9	164	71
第 39 次	70.7	39.5	38.9	168	71
第100次	70.7	38.9	38.7	150	66
第 101 次	70.8	39.9	38.9	155	72
第 102 次	70.7	38.9	39.9	148	57
第 103 次	70.8	39.9	38.9	153	53
第 104 次	70.8	39.9	38.9	155	71
第 105 次	70.7	39.5	38.9	164	56
第 106 次	70.7	38.9	38.7	164	55
第 107 次	70.8	39.9	38.9	155	59
第 108 次	70.7	38.9	39.9	158	60
第 109 次	69.9	38.9	38.1	164	63

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第 110 次	70.7	39.5	38.9	168	71
第 111 次	70.7	38.9	38.7	150	66
第 112 次	70.8	39.9	38.9	155	72
第 113 次	70.7	38.9	39.9	155	56
第 114 次	69.9	38.9	38.1	155	59
第 115 次	70.7	38.9	38.7	158	60
第 116 次	70.8	39.9	38.9	164	63
第 117 次	70.8	39.9	38.9	168	71
第 118 次	70.7	39.5	38.9	150	66
第 119 次	70.7	38.9	38.7	155	72
第 120 次	70.9	38.8	38.6	157	70
			AND STATE OF THE PARTY OF THE P		

Name	Manual gate valv		1 13/	16×10000PSI FLS	LU PR2
Number of switches	Pre-opening pressure MPaMPa	Full-opening pressure MPaMPa	Full-opening pressure MPaMPa	Maximum torque during opening process (N·m)	Maximum torque during shutdown (N·m)
第 121 次	70.8	39.9	38.9	147	53
第 122 次	70.7	38.9	39.9	144	66
第 123 次	69.9	38.9	38.1	149	51
第 124 次	70.7	38.9	38.7	154	55
第 125 次	70.8	39.9	38.9	148	71
第 126 次	70.7	39.5	38.9	145	66
第 127 次	70.7	38.9	38.7	136	72
第 128 次	70.8	39.9	38.9	155	59
第 129 次	70.7	38.9	39.9	155	60
第 130 次	70.8	39.9	38.9	158	63
第 131 次	70.8	39.9	38.9	164	63
第 132 次	70.7	39.5	38.9	168	71
第 133 次	70.7	38.9	38.7	150	66
第 134 次	70.8	39.9	38.9	155	72
第 135 次	70.7	38.9	39.9	158	60
第 136 次	69.9	38.9	38.1	164	63
第 137 次	70.8	39.9	38.9	168	71
第 138 次	70.7	38.9	39.9	150	66

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					/ 1 / 1/11 / 1
第 139 次	70.8	39.9	38.9	155	72
第 140 次	70.8	39.9	38.9	155	59
第 141 次	70.7	39.5	38.9	158	60
第 142 次	70.7	38.9	39.9	164	63
第 143 次	70.8	39.9	38.9	168	71
第 144 次	70.8	39.9	38.9	150	66
第 145 次	70.7	39.5	38.9	155	72
第 146 次	70.7	38.9	39.9	155	59
第 147 次	70.8	39.9	38.9	158	60
第 148 次	70.8	39.9	38.9	164	63
第 149 次	70.7	39.5	38.9	168	71
第 150 次	70.8	39.8	38.9	168	53

Name	Manual gate valve	Description	1 13/	16×10000PSI FLS	LU PR2
Number of switches	Pre-opening pressure MPaMPa	Full-opening pressure MPaMPa	Full-opening pressure MPaMPa	Maximum torque during opening process (N·m)	Maximum torque during shutdown (N·m)
第 151 次	70.7	38.9	38.7	150	66
第 152 次	70.8	39.9	38.9	155	72
第 153 次	70.7	38.9	39.9	149	56
第 154 次	69.9	38.9	38.1	166	59
第 155 次	70.8	39.9	38.9	163	52
第 156 次	70.7	39.5	38.9	148	69
第 157 次	70.7	38.9	38.7	155	68
第 158 次	70.8	39.9	38.9	143	52
第 159 次	70.7	38.9	39.9	155	58
第 160 次	70.8	39.9	38.9	143	52
第 161 次	70.8	39.9	38.9	169	52

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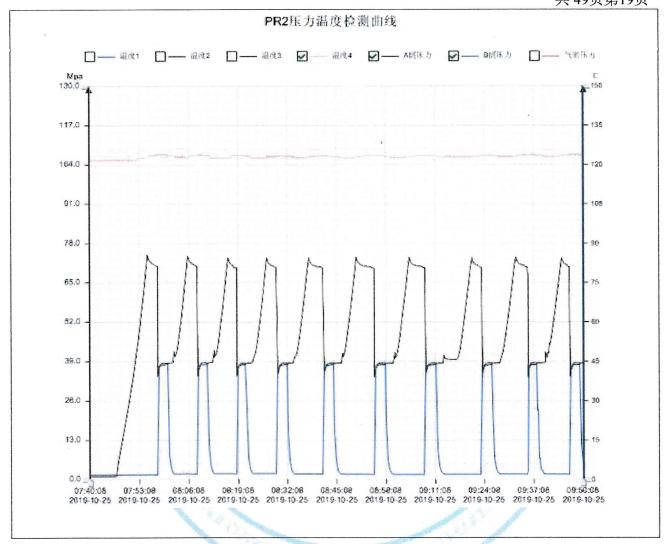
Name	Manual gate valve	description	No abnormal appearance of the sample	
Company				
Test dept	Dynamic test at the highest rated temperature	test time	2019年10月25日	
executive department	Machinery Dept .	SN	03	
Standard	API Spec 6A-2018	test medium	Nitrogen	
S/N pressure gauge		Sensor number	30733-56 30733-57	
Test pressur (MPa)	time of steady pressure (S)	1	Drop pressure /	



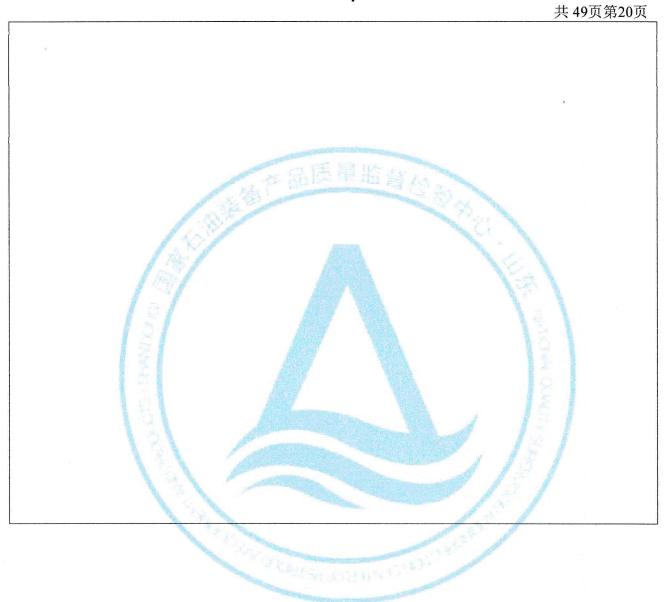
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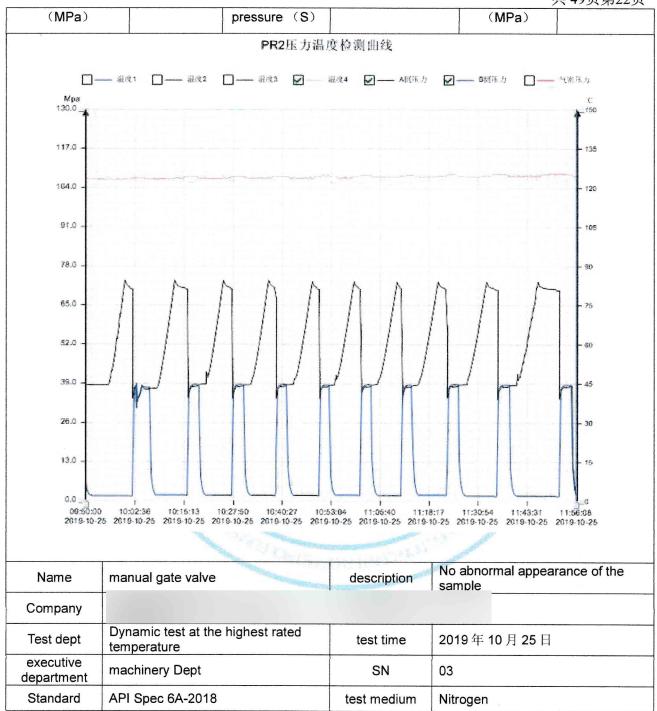
检验报告 Test Report

共 49页第21页 No abnormal appearance of the Name manual gate valve description sample Company Dynamic test at the highest rated Test dept test time 2019年10月25日 temperature executive machinery Dept SN 03 department Standard API Spec 6A-2018 test medium Nitrogen S/N pressure Sensor 30733-56 30733-57 gauge number test prssure 1 time of steady Pressure drop 1

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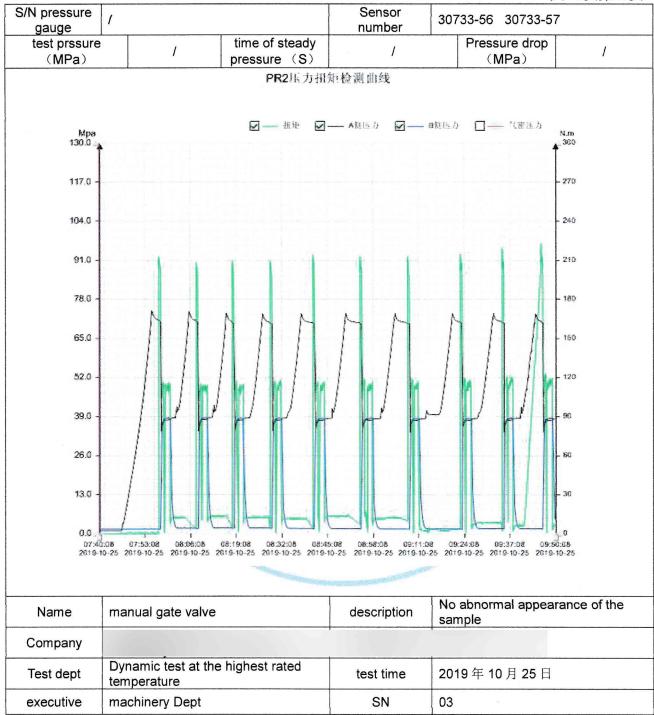
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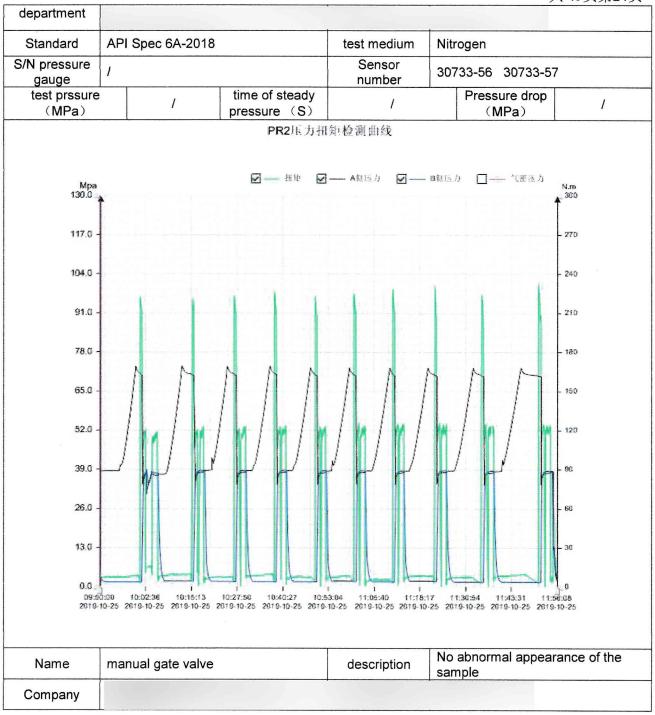
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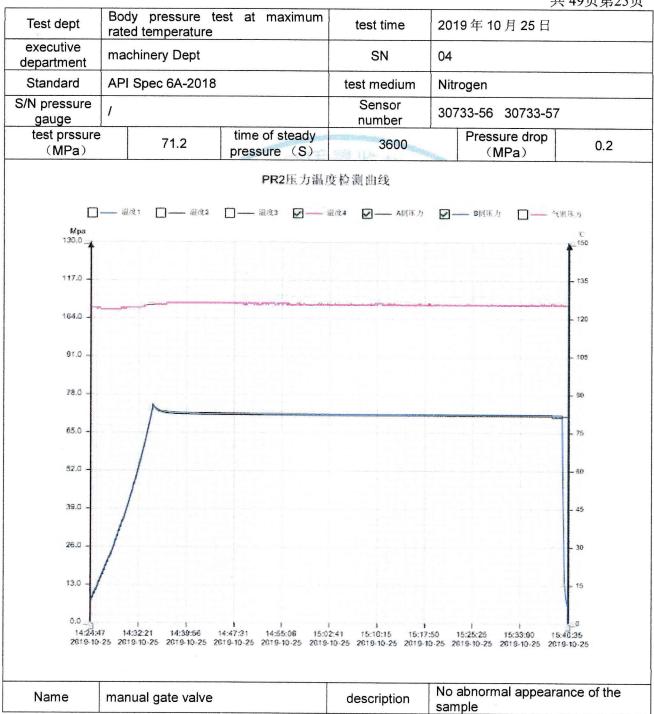
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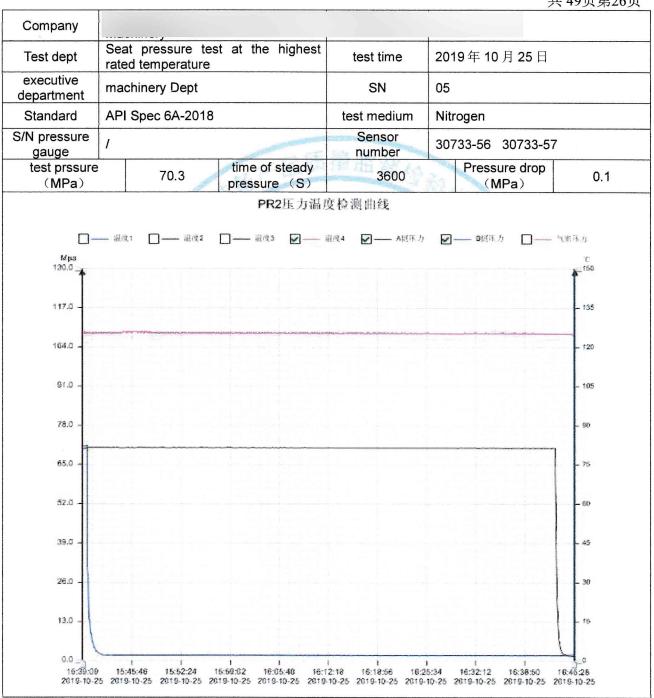
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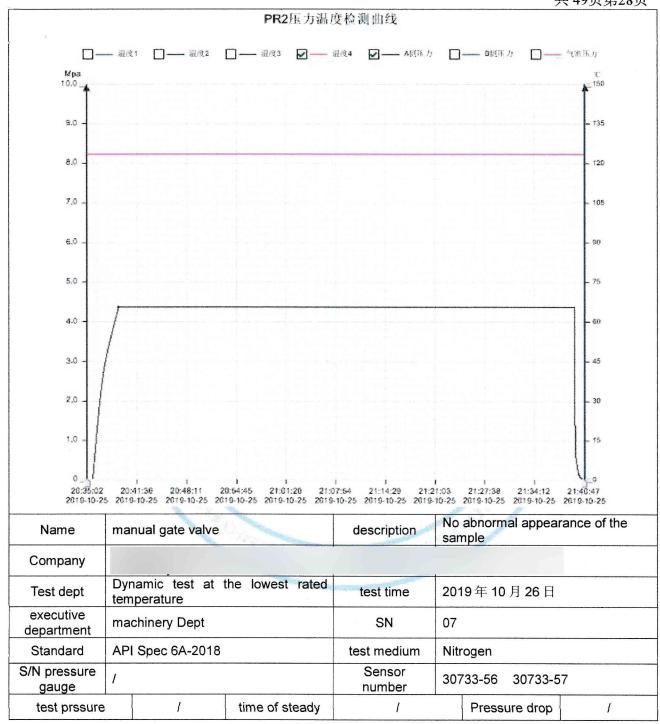
Name	manual gate valve	description	No abnormal appearance of the sample
Company			
Test dept	Seat low pressure test at maximum rated temperature	test time	2019年10月25日
executive department	machinery Dept	SN	06
Standard	API Spec 6A-2018	test medium	Nitrogen
S/N pressure gauge	1 独作证此	Sensor number	30733-56
test prssure (MPa)	4.4 time of steady pressure (S)	3600	Pressure drop (MPa) 0.0



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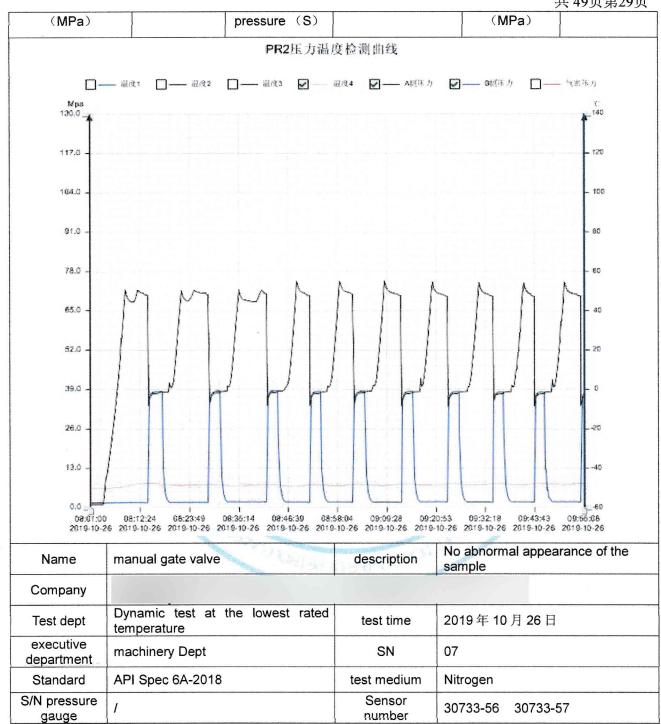
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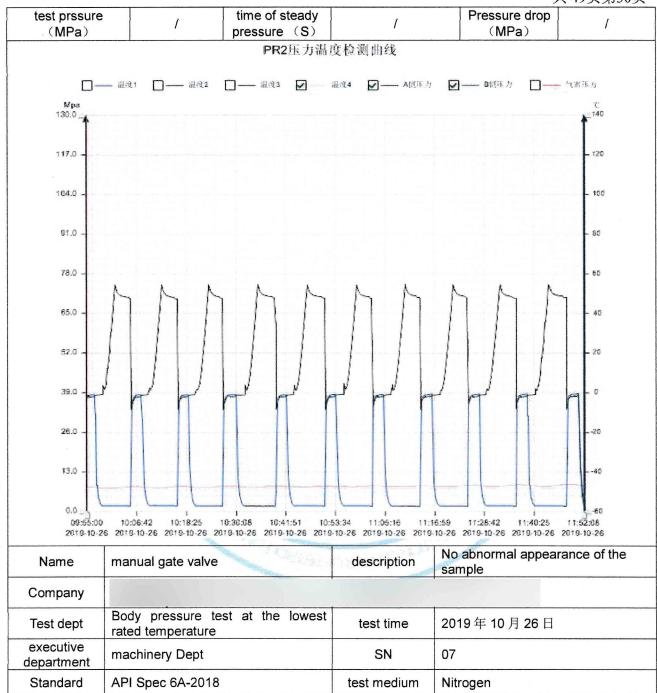
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检验报告 Test Report

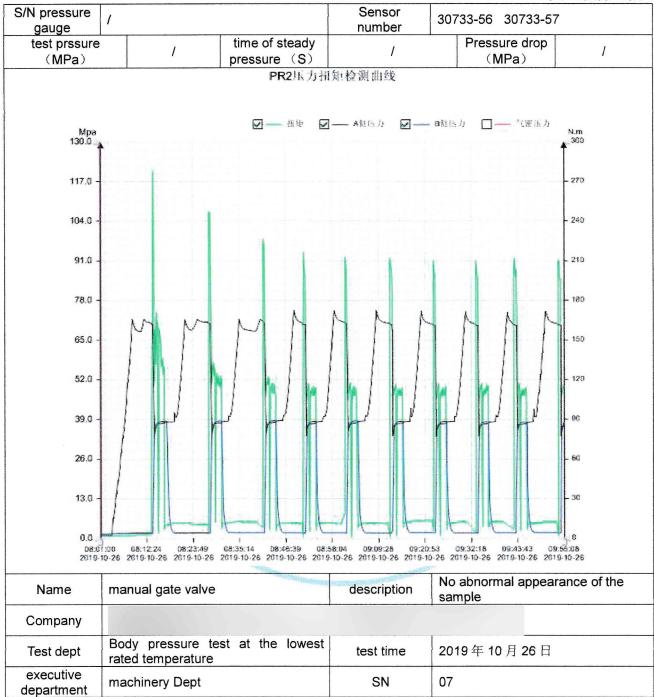
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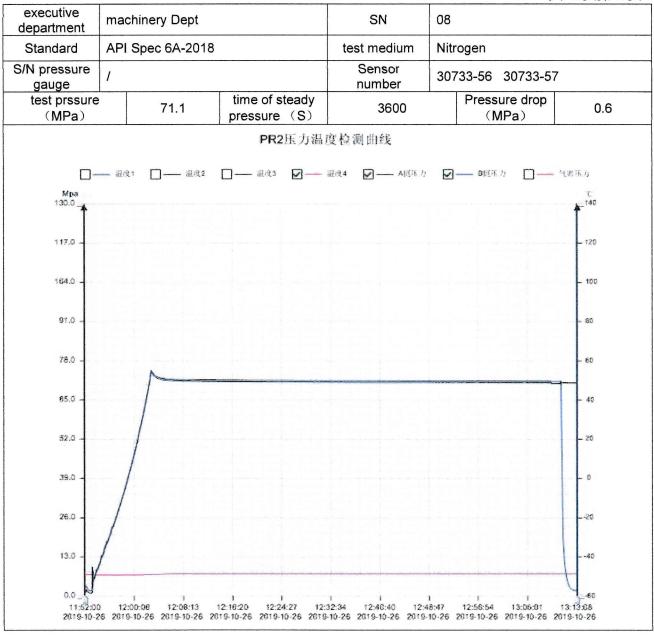
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Standard	API Spec 6A-2018			test medium	Nitrogen	
S/N pressure gauge	1			Sensor number	30733-56 30733-57	1
test prssure (MPa)		1	time of steady pressure (S)	1	Pressure drop (MPa)	1
			PR2压力扭	知检测曲线		
	10-26 201		10:30:08 19:41:51 10:3	33:34 11:09:16 11:16 10-26 2019-10-26 2019-1	0-26 2019-10-26 2019-10-26 2019	
Name	manu	al gate valve		description	No abnormal appear sample	ance of the
Company						
Test dept		pressure tes temperature	st at the lowest	test time	2019年10月26日	

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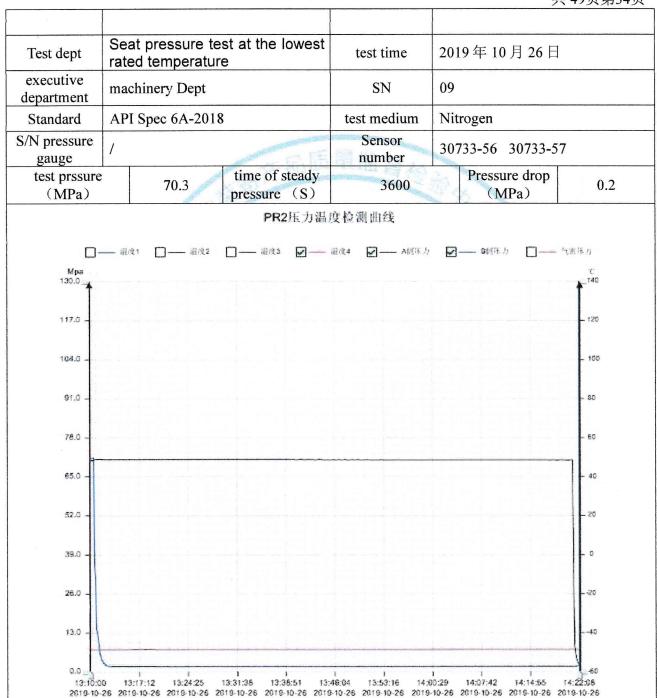


Name	manual gate valve	description	No abnormal appearance of the sample
Company			

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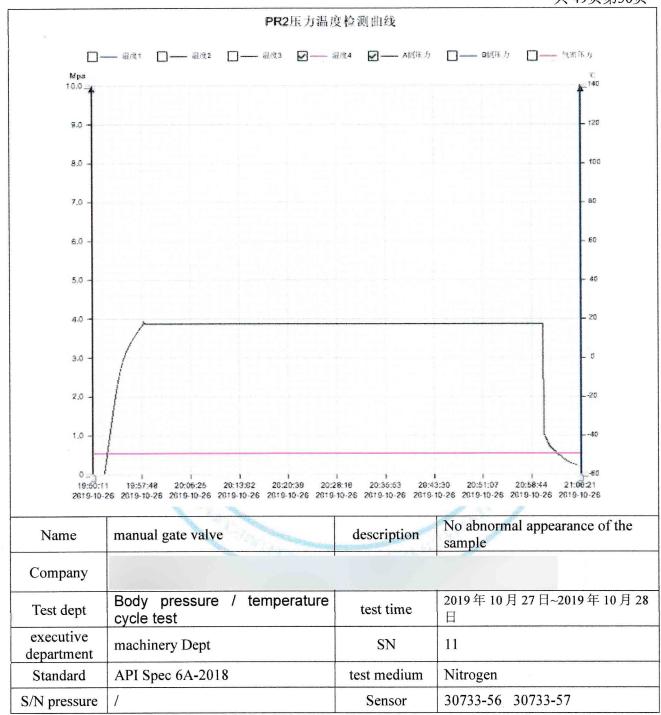
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Name	manual gate valve	description	No abnormal appearance of the sample	
Company				
Test dept	Seat low pressure test at the lowest rated temperature	test time	2019年10月26日	
executive department	machinery Dept	SN	10	
Standard	API Spec 6A-2018	test medium	Nitrogen	
S/N pressure gauge	1	Sensor number	30733-56	
test prssure (MPa)	3.8 time of steady pressure (S)	3600	Pressure drop (MPa) 0.0	

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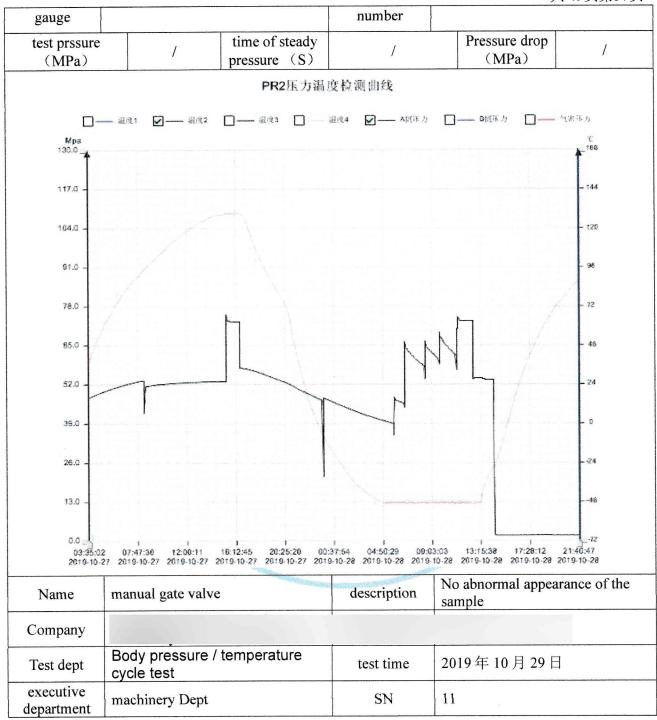
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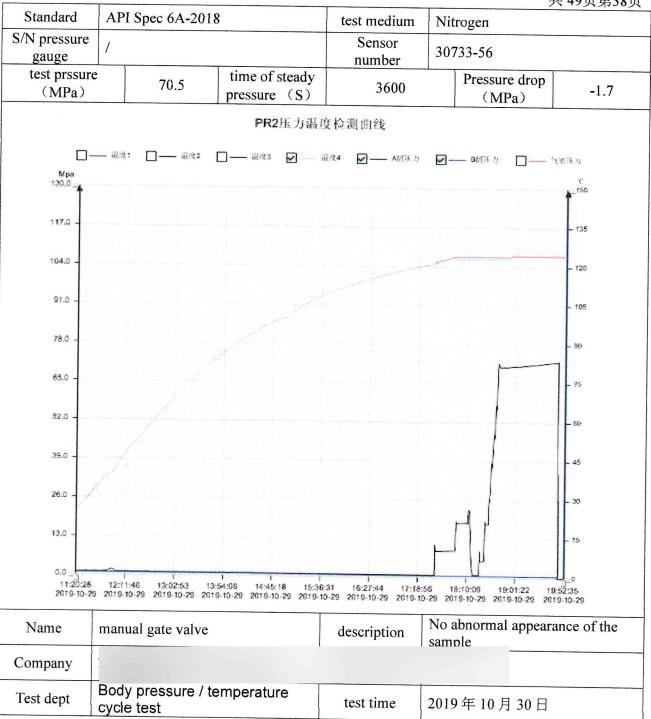
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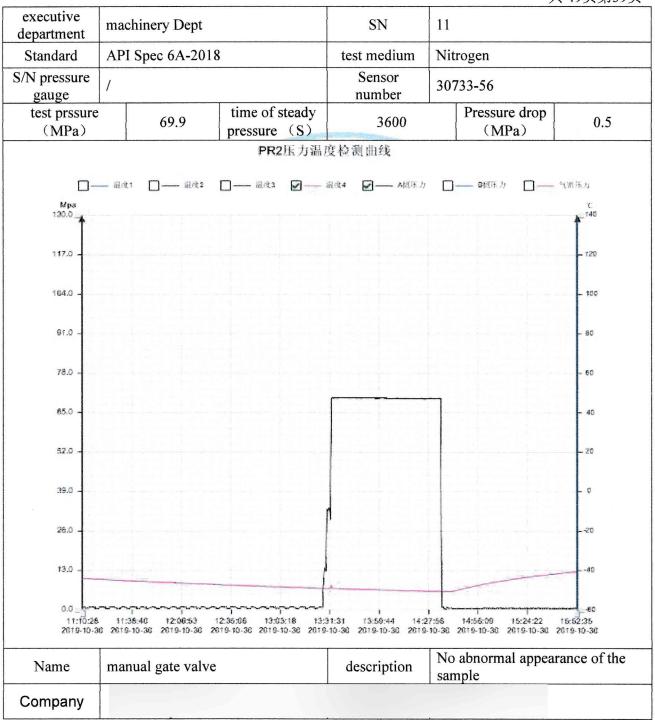
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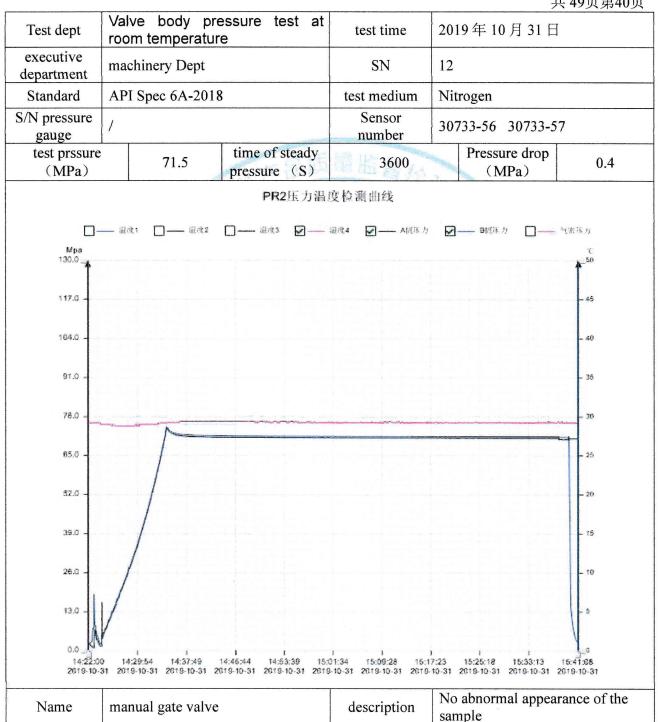
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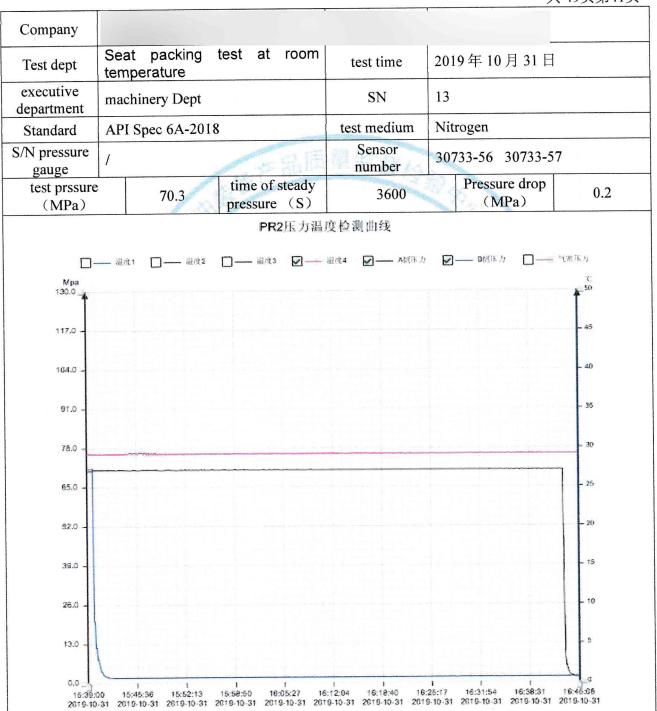
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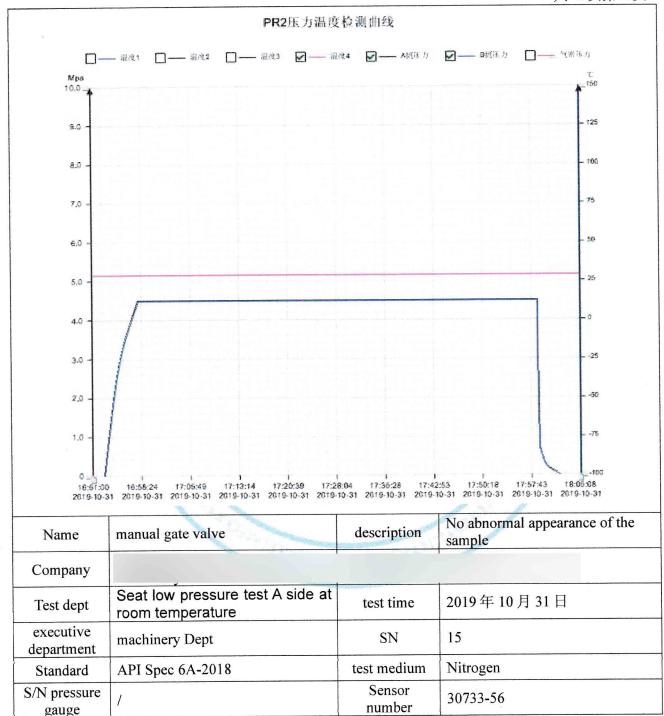
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Name	manual gate valve	description	No abnormal appearance of the sample	
Company				
Test dept	Valve body low pressure test at room temperature	test time	2019年10月31日	
executive department	machinery Dept	SN	14	
Standard	API Spec 6A-2018	test medium	Nitrogen	
S/N pressure gauge	1	Sensor number	30733-56	
test prssure (MPa)	4.5 time of steady pressure (S)	3600	Pressure drop (MPa) 0.1	

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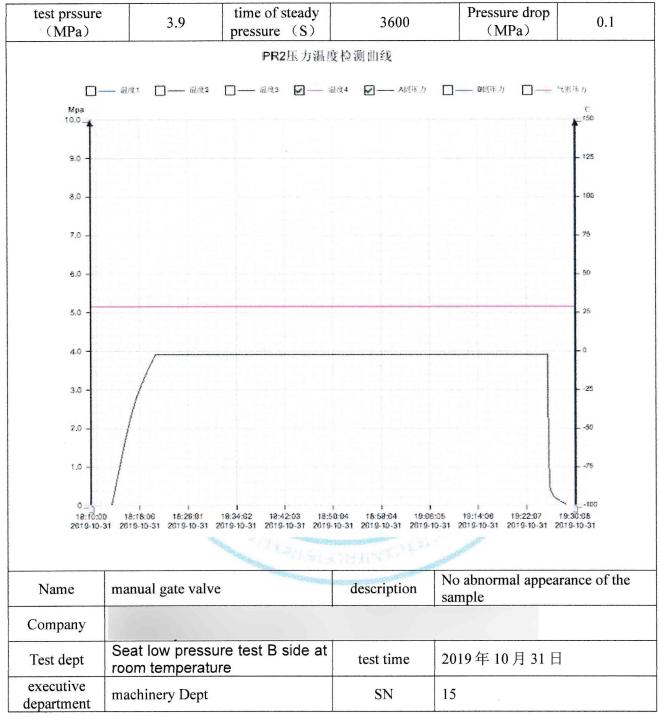
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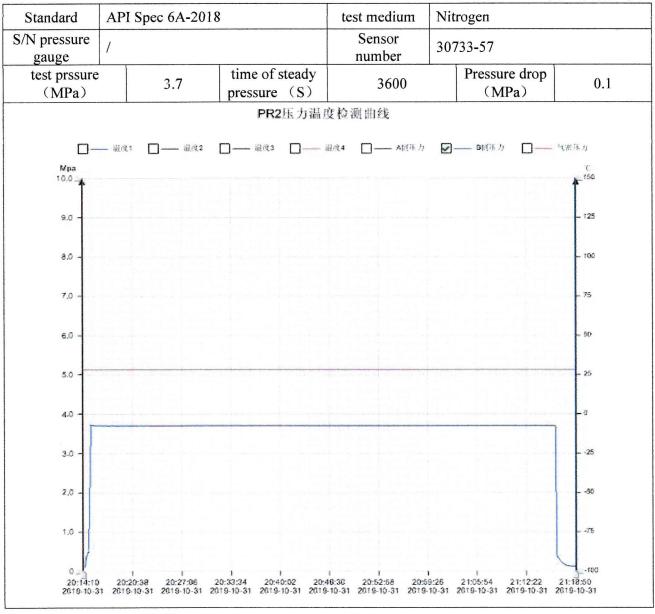
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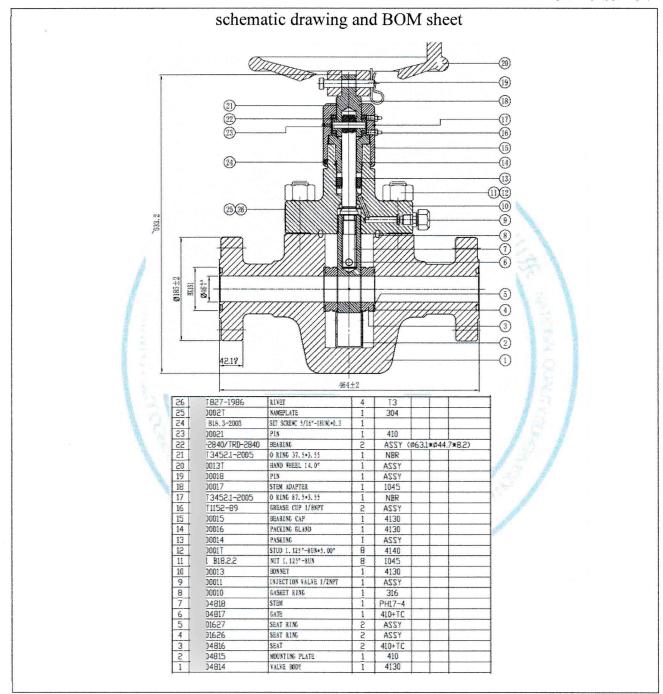
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国家石油装备产品质量监督检验中心(山东) National Quality Supervision and Inspection Center of Petroleum Equipment and Products(shandong)

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		Ma	in equipment used	
Equipme nt name	Measuring instrument name	S/N	Verification/calibr ation is valid until	Usage
井控设备 30733	Pressure Transmitters	30733-59	2020-06-13	Dynamic test at room temperature.
	Pressure Transmitters	30733-60	2020-06-13	Dynamic test at room temperature
	Pressure Transmitters	30733-56	2020-06-13	Dynamic test at the highest rated temperature; body pressure test at the highest rated temperature; Seat pressure test at the highest rated temperature; Seat low pressure test at maximum rated temperature; dynamic test at lowest rated temperature; body pressure test at lowest rated temperature; seat pressure test at lowest rated temperature; seat lowest rated temperature; seat lowest rated temperature; Pressure/temperature cycle test; valve body pressure test at room temperature; Seat packing test at room temperature; low pressure test of valve body at room temperature; low pressure test of seat at room temperature.
	Pressure Transmitters	30733-57	2020-06-13	Dynamic test at the highest rated temperature; dynamic test at the lowest rated temperature; seat low pressure tes at room temperature.
	Industrial platinum resistance	30733-69	2020-01-06	Dynamic test at the highest rated temperature; body pressure test at the highest rated temperature; Seat pressure test at the highest rated temperature; Seat low pressure test at maximum rated temperature; body pressure/temperature cycle test. Dynamic test at the lowest rated temperature; body pressure test at the lowest rated temperature; seat pressure test at the lowest rated temperature;

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				共 49页第49页			
				pressure test at the lowest rated			
(4)				temperature; valve body			
				pressure/temperature cycle test.			
	Torque			Measurement of force or torque;			
		30733-53	2020-01-06	dynamic test at room temperature;			
	sensor			dynamic test at final room temperature.			
	Torque			Dynamic test at the highest rated			
	sensor	30733-70	2020-01-06	temperature; dynamic test at the lowest			
				rated temperature.			
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