

ภาคผนวก ข-29

HyCO Alarm & Trip setting

ภาคผนวก ข-30

การตรวจสอบ

Lfd.	Safety Valve	Calibration	Ident No.	P&ID	Set Pressure	Inlet	Outlet	Model	Manufac	Report	Equipment & Unit	Process
No.	TAG No.	Date		No	(barg)	Size	Size					
1	SV-1001	10/25/2023	I30456	10 PFP 03	47	1" 600#	2" 150#	526.0072	LESER	170879-068	R-1001	FDG
2	SV-1003	10/24/2023	I30471	10 PFP 08	6	1" 300#	2" 150#	4412.4812	LESER	170879-001	E-1012	NG fuel
3	SV-1006	10/24/2023	I30462	10 PFP 07	48	1" 600#	1" 150#	4592.2472	LESER	170879-004	C-1008 B	H2
4	*SV-1101A	10/22/2025	06.38887.8/2	11PFP01	47	1 1/2" 600#	3" 150 #	5264.0483	LESER		D1131	Steam
5	*SV-1101B	10/23/2025	06.38887.6/1	11PFP01	47	1 1/2" 600#	3" 150 #	5264.0483	LESER		D1131	Steam
6	*SV-1101C	10/24/2025	10524399	11PFP01	47	1 1/2" 600#	3" 150 #	5264.0483	LESER		D1131	Steam
7	*SV-1101D	10/25/2025	11274476	11PFP01	47	1 1/2" 600#	3" 150 #	5262.0485	LESER		D1131	Steam
8	SV-1102	10/24/2023	I30474	11 PFP 09	4	1" 300#	2" 150#	4412.4812	LESER	170879-005	FG-18002-150	FG
9	SV-1103	10/25/2023	I30459	11 PFP 02	47	11/2" 1500#	2" 300#	5267.0083	LESER	170879-006	R-1105	FDG
10	SV-1201	10/25/2023	I30490	12 PFP 02	35	2" 600#	3" 150#	5264.1552	LESER	170879-007	D-1232	REFG
11	SV-1301	10/25/2023	I30475	13 PFP 01	15	1" 300#	2" 150#	4412.4812	LESER	170879-008	P-1371 A	BFW
12	SV-1302	10/25/2023	I30476	13 PFP 01	15	1" 300#	2" 150#	4412.4812	LESER	170879-009	P-1371 B	BFW
13	SV-1303	10/24/2023	I30492	13 PFP 02	4	11/2" 300#	3" 150#	5262.1432	LESER	70879-0010	D-1331	LPS
14	SV-1304	10/24/2023	I30477	13 PFP 03	7	1" 300#	2" 150#	4412.4813	LESER	170879-0011	LPS-13009-100	LPS
15	SV-1401	10/24/2023	I30493	14 PFP 02	4	2" 300#	3" 150#	4412.4842	LESER	170879-012	D-1432	MDEA
16	SV-1402	10/25/2023	I30501	14 PFP 04	3.5	3" 150#	4" 150 #	4414.7962	LESER	170879-013	D-1441	CO2
17	SV-1403	10/25/2023	I30502	14 PFP 05	6	11/2" 300#	3" 150#	5264.1532	LESER	170879-014	D-1442	CO2
18	SV-1404	10/24/2023	I30503	14 PFP 06	15	1" 300#	2" 150#	4414.7912	LESER	170879-015	D-1443	CO2
19	SV-1405	10/24/2023	I30504	14 PFP 06	47	1" 600#	2" 150#	5264.0122	LESER	170879-016	C-1408 Stage 3rd	CO2
20	SV-1406	10/24/2023	I30480	14 PFP 03	13	1" 300#	2" 150#	4412.4812	LESER		P-1474 A	MDEA
21	SV-1407	10/24/2023	I30481	14 PFP 03	13	1" 300#	2" 150#	4412.4812	LESER		P-1474 B	MDEA
22	SV-1501	10/26/2023	I30482	15 PFP 01	35	1" 300#	2" 150#	4412.4812	LESER	170879-017	D-1531	MDEA
23	SV-1502	10/25/2023	I30483	15 PFP 02	35	1" 300#	2" 150#	4412.4812	LESER	170879-018	A-1501 A	WF
24	SV-1503	10/25/2023	I30484	15 PFP 02	35	1" 300#	2" 150#	4412.4812	LESER	170879-019	A-1501 B	WF
25	SV-1504	10/25/2023	I30485	15 PFP 04	32	1" 300#	2" 150#	4412.4812	LESER	170879-020	D-1541	H2
26	SV-1601	10/26/2023	I30505	16 PFP 02	30	1" 300#	2" 150#	4414.7912	LESER	ST-REP-181324-0009	X-1606	CO
27	SV-1602	10/28/2023	I30506	16 PFP 10	35	1" 300#	2" 150#	4414.7912	LESER	170879-021	T-1601 Cold Box	H2
28	SV-1603	10/26/2023	I30507	16 PFP 10	3.5	3" 150#	4" 150 #	4414.7962	LESER	170879-022	T-1603 Cold Box	CO
29	SV-1604	10/26/2023	I30508	16 PFP 10	24	1" 300#	2" 150#	4414.7912	LESER	170879-023	TG-16024-80	TG
30	SV-1605	10/28/2023	I30509	16 PFP 02	24	1" 300#	2" 150#	4414.7912	LESER	ST-REP-181324-0010	LN-16085-25	N2
31	SV-1606	10/24/2023	I30510	16 PFP 04	10.5	11/2" 300#	3" 150#	5264.1532	LESER	170879-069	T-1602	CO
32	SV-1607	10/24/2023	I30511	16 PFP 06	35	1" 300#	1" 150#	4334.4282	LESER		P-1671 A discharge	CH4
33	SV-1608	10/25/2023	I30512	16 PFP 06	35	1" 300#	1" 150#	4334.4282	LESER	ST-REP-181324-0004	P-1671 B discharge	CH4
34	SV-1609	10/26/2023	I30513	16 PFP 03	16	1" 300#	1" 150#	4334.4282	LESER	ST-REP-181324-0011	D-1633	CO
35	SV-1610	10/28/2023	I30494	16 PFP 08	16	2" 300#	3" 150#	4412.4842	LESER	170879-024	C-1608 3rd stage	CO
36	SV-1611	10/25/2023	I30495	16 PFP 08	30	11/2" 300#	3" 150#	4412.4822	LESER	170879-025	C-1608 4th stage	CO
37	SV-1612	10/24/2023	I30514	16 PFP 09	16	1" 300#	2" 150#	4414.7912	LESER	170879-026	E-1630 A/B	CO
38	SV-1613	10/25/2023	I30515	16 PFP 06	4	1" 300#	2" 150#	4414.7912	LESER	170879-027	P-1671 A suction	CH4
39	SV-1614	10/24/2023	I30516	16 PFP 06	4	1" 300#	2" 150#	4414.7912	LESER	170879-028	P-1671 B suction	CH4
40	SV-1615	10/28/2023	I30497	16 PFP 07	5	3" 150#	4" 150 #	4412.7862	LESER	170879-029	C-1608 1st stage	CO
41	SV-1616	10/28/2023	I30499	16 PFP 07	10	2" 300#	3" 150#	4412.4842	LESER	170879-030	C-1608 2nd stage	CO
42	SV-1617	10/24/2023	I30498	16 PFP 08	2	3" 150#	4" 150 #	4412.4862	LESER	170879-031	C-1608	CO
43	SV-1618	10/26/2023	I30500	16 PFP 08	8	2" 300#	3" 150#	4412.4842	LESER	170879-032	C-1608	CWR
44	PSV-1619	10/24/2023		16 PFP 01	6	3/4" NPT	1" NPT	4593.2512	LESER	170879-062	X-1606	CWR
45	PSV-1620	10/29/2023		16 PFP 01	30	3/4" NPT	1" NPT	4593.2572	LESER	170879-063	X-1606	SLG
46	SV-1621	10/22/2023	I30487	16 PFP 07	5	1" 300#	2" 150#	4412.4812	LESER	170879-033	C-1608 inlet	CO
47	SV-1651	10/22/2023		*16PFP08	32	11/2" 300#	3" 150#	526.0472	LESER	PTH-PRC-ED-0001	A-1651 New CO2 absorber	CO
48	SV-1665	10/22/2023		16 PFP 13	16	1" 300	2" 150	44124812	LESER	170879-059	CO-16011-80	CO
49	SV-1801	10/22/2023	I30491	18 PFP 01	3	2" 300#	3" 150#	4412.4842	LESER	170879-034	D-1832	PUG
50	SV-18010	10/22/2023	I30463	18 PFP 03	32	1" 300#	2" 150#	4412.4812	LESER	170879-035	A-1810	H2
51	SV-18020	10/26/2023	I30464	18 PFP 03	32	1" 300#	2" 150#	4412.4812	LESER	170879-036	A-1820	H2
52	SV-18030	10/26/2023	I30465	18 PFP 03	32	1" 300#	2" 150#	4412.4812	LESER	170879-037	A-1830	H2
53	SV-18040	10/28/2023	I30466	18 PFP 03	32	1" 300#	2" 150#	4412.4812	LESER	170879-038	A-1840	H2
54	SV-18050	10/26/2023	I30467	18 PFP 03	32	1" 300#	2" 150#	4412.4812	LESER	170879-039	A-1850	H2
55	PSV-85A-1	10/26/2023		H0202-T-D-140-01	22.75	3/4" NPT	1" NPT	JW-0122F/02	BAILEY	170879-048	CO2 Pagkage	co2
56	PSV-85A-3	10/27/2023		H0202-T-D-140-01	22.75	3/4" NPT	1" NPT	JW-0122F/02	BAILEY	170879-041	CO2 Pagkage	co2
57	PSV-85A-4	10/26/2023		H0202-T-D-140-01	22.75	3/4" NPT	1" NPT	S 141856/C1309-302	BIRKETT	170879-043	CO2 Pagkage	co2
58	PSV-85B-1	10/27/2023		H0202-T-D-140-01	46	3/4" NPT	1" NPT	JW-0122F/02	BAILEY	170879-064	CO2 Pagkage	co2
59	PSV-85B-2	10/28/2023		H0202-T-D-140-01	45	3/4" NPT	1" NPT	S141848/C2827-302	BIRKETT	170879-055	CO2 Pagkage	co2
60	PSV-85B-3	10/27/2023		H0202-T-D-140-01	45	3/4" NPT	1" NPT	S141849/C2827-302	BIRKETT	170879-045	CO2 Pagkage	co2
61	PSV-85B-4	10/27/2023		H0202-T-D-140-01	46	3/4" NPT	1" NPT	S141654/C1309-302	BIRKETT	170879-044	CO2 Pagkage	co2
62	PSV-851A-1	10/27/2023		H0202-T-D-140-01	22.75	1/2" NPT	3/4" NPT	776/1	BAILEY	170879-049	CO2 Pump P-851 A	co2
63	PSV-851A-2	10/30/2023		H0202-T-D-140-01	22.75	3/4" NPT	1" NPT				CO2 Pump P-851 A	CO2
64	PSV-851A-3	10/26/2023		H0202-T-D-140-01	55	1" NPT	1 1/4" NPT	776728-90		190458-0001	CO2 Pump P-851 A	CO2
65	PSV-851A-4	10/26/2023		H0202-T-D-140-01	46	3/4" NPT	1" NPT	7D/2CF422/C	BIRKETT	170879-050	CO2 Pump P-851 A	co2
66	PSV-851B-1	10/26/2023		H0202-T-D-140-01	22.75	1/2" NPT	3/4" NPT	776/1	BAILEY	170879-064	CO2 pump P-851 B	co2
67	PSV-851B-2	10/26/2023		H0202-T-D-140-01	22.75	3/4" NPT	1" NPT				CO2 pump P-851 B	co2
68	PSV-851B-3	10/26/2023		H0202-T-D-140-01	55	1" NPT	1 1/4" NPT	776728-90			CO2 pump P-851 B	co2
69	PSV-851B-4	10/26/2023		H0202-T-D-140-01	46	3/4" NPT	1" NPT	1C/2CF422/C	BIRKETT	170879-046	CO2 pump P-851 B	co2
70	PSV-851-1	10/26/2023		H0202-T-D-140-01	46	3/4" NPT	1" NPT	7D/2CF-22/C	BIRKETT	170879-042	CO2 Pagkage	co2
71	PSV-852-1	10/26/2023		H0202-T-D-140-01	45	3/4" NPT	1" NPT	7D/2CF422/C	BIRKETT	170879-051	CO2 Pagkage	co2
72	PSV-852-2	10/26/2023		H0202-T-D-140-01	45	3/4" NPT	1" NPT	7D/2CF422/C	BIRKETT	170879-052	CO2 Pagkage	co2
73	PSV-852-3	10/26/2023		H0202-T-D-140-01	45	3/4" NPT	1" NPT	7D/2CF422/C	BIRKETT	170879-053	CO2 Pagkage	co2
74	PSV-852-4	10/26/2023		H0202-T-D-140-01	45	3/4" NPT	1" NPT	7D/2CF422/C	BIRKETT	170879-054	CO2 Pagkage	co2
75	*PSV1202	10/30/2023		H0202-T-D-140-01	12	1" 300	1 1/2." 150	746112M	BAILEY	170879-060	CO2 Pagkage (steam)	CO2
76	*PSV1203	10/22/2025		030109-087	45	DN 24(1")	DN 60(2")		LESER		Boiler Pakacge	Steam
77	*PSV1204	10/23/2025	04428291/2	030109-088	45	DN 24(1")	DN 60(2")	4582.6114	LESER		Boiler Pakacge	Steam
78	*PSV1205	10/24/2025		030109-089	10.5	DN 32(1-1/4")	DN 50(2")		LESER		Boiler Pakacge	Steam
79	*PSV1206	10/25/2025	321809	030109-090	1.5	DN 50(2")	DN 80(3")	50503	LESER		Boiler Pakacge	Steam
80	PSV-1302	10/30/2023		H020-T-D-115-01	4	3/4" NPT	3/4" NPT	140466	BAILEY	170879-058	Fuel Gas Supply System	FG
81	PSV-1303	10/31/2023		H020-T-D-115-01	28	3/4" 300	1"150	861601MA	CROSBY	ST-REP-181324-0002	Fuel Gas Supply System	FG
82	PSV-1311	11/1/2023		H020-T-D-115-01	17	1/2" NPT	1" NPT	SV 07.80A87	BIRKETT	170879-061	Fuel Gas Supply System	FG
83	SV- 401	10/24/2024		H020-T-D-106-01	31	3/4" NPT	1" NPT		BIRKETT	ST-REP-181324-0001	H2 Metering Skid	H2
84	SV-10530	12/2/2024		BD50.001	39.4	3/4" NPT	1" NPT	4593.2522	LESER	ST-REP-181324-0005	C-10501 Suction	NG
85	SV-10531	12/2/2024		BD50.001	50	3/4" NPT	1" NPT	4593.2522	LESER	ST-REP-181324-0006	C-10501 Discharge	NG
86	PSV-10560	12/2/2024		BD50.001	3	1/2" NPT	1/2" NPT	SPV 10 A 1G 1 A 05	KRACHT		P-10503 AUX Oil Pump	Oil

ภาคผนวก ข-31

เอกสารการสอบเทียบ

Safety Relief Valve Report

Tag No.	SV-10566	Equipment No.	N/S	Report No.	SYS23320-4831
Customer	LINDE	Location	N/S	Date	21-Oct-23

PSV Type ☒ SPRING LOADED ☐ PILOT OPERATED ☐ BELLOW TYPE

Valve Data

Manufacturer	FULFLO	Set Pressure	6.00	☐ PSIG
Model	N/S	New Set Pres.	N/A	☒ BARG
Serial No.	N/S	CDTP	N/S	☐ kgf/cm2
Inlet size	1-1/2" 150# RF	T/C Factor	N/S	☐ MPa
Outlet size	1-1/2" 150# RF	Back Pressure	N/S	
Orifice	N/S	Capacity	N/S	

Test Standard

ASME	☒ Sec.VIII ☐ Sec.I
Classification	☐ Non-Code
Test standard	☐ API 527 ☐ API2000
	☒ MFG ☐ Customer
Seat Type	☒ Metal ☐ Soft Seat
Test Medium	☒ N2/Air ☐ Water

Valve Disassembly and Inspection

Part Name	GOOD	RUST	SCRATCH	WORN	CRACK	BROKEN	DAMAGED
Flange In/Out	☒	☐	☐	☐	☐	☐	
Body/Bonnet	☒	☐	☐	☐	☐	☐	
Nozzle	☐	☐	☒	☐	☐	☐	
Guide/Holder	☒	☐	☐	☐	☐	☐	
Spindle	☒	☐	☐	☐	☐	☐	
Spring/Washer	☒	☐	☐	☐	☐	☐	
Bellow	☐	☐	☐	☐	☐	☐	N/A
Disc	☐	☐	☒	☐	☐	☐	
Gaskets	☐	☐	☐	☒	☐	☐	

Maintenance Performed

REUSED	CLEAN	LAPPING	MACHINE	REPLACED(P/N)
☒	☒	☐	☐	
☒	☒	☐	☐	
☒	☒	☒	☐	
☒	☒	☐	☐	
☒	☒	☐	☐	
☐	☐	☐	☐	N/A
☒	☒	☒	☐	
☐	☐	☐	☒	

Pilot Valve	☐	☐	☐	☐	☐	☐	N/A
Pilot Spring	☐	☐	☐	☐	☐	☐	N/A
Pilot Seal Kit	☐	☐	☐	☐	☐	☐	N/A
Tube fitting	☐	☐	☐	☐	☐	☐	N/A

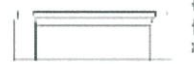
Note:

Disc (mm)



Before 2.1 mm. After 2.0 mm.

Nozzle (mm)



Before 0.9 mm. After 0.9 mm.

Adjusting Bolts (mm)



Before 30.0 mm. After 30.0 mm.

Failure Cause ☒ Seat surface damaged
☒ Particle/Dirty

☐ Set Point out of criteria
☐ Valve seized, Not Pop action

☐ Valve Passing

☐

Testing Requirement			
Set Pressure	6.00	☐ Psig	
Criteria	☒ ±3% ☐ ±2psi	☒ Barg	
Min	5.82	☐ kgf/cm2	
Max	6.18	☐ MPa	
Leakage pressure test	N/A	☒ Bpm	
Leak rate acceptance	N/A	☐ cc/min	
Body/Bellow test at:			
Nozzle ring set			
Guide ring set			

Pre-test	
5.97	Result: ☒ Pass
	☐ Fail
	☐ N/a
N/A	Result: ☐ Pass
N/A	☐ Fail
	☒ N/a
☐ Pass ☐ Fail ☒ N/a	
N/A	Nothes
N/A	Nothes

Final Test	
6.09	Result: ☒ Pass
	☐ Fail
	☐ N/a
N/A	Result: ☐ Pass
N/A	☐ Fail
	☒ N/a
☐ Pass ☐ Fail ☒ N/a	
N/A	Nothes
N/A	Nothes

Test Gauge Data

Scope of Work

Range 1000 PSI

Certificate no. OSI23-ITC-062

☒ Remove ☒ Pre-test ☒ Overhaul ☒ Final test ☒ Install ☐ Re-Adjustment

Inspection Photo Report

Tag No. : SV-10566

Pre-Pressure Test



Testing Appearance



Initial Relief Pressure

Inspection Photo Report

Tag No. : SV-10566

Valve Disassembly/Assembly



Valve Dis-Assembly



Valve Assembly

Parts Repaired and Replaced



Disc (Before Lapping)



Disc (After Lapping)



Nozzle (Before Lapping)



Nozzle (After Lapping)

Inspection Photo Report

Tag No. : SV-10566

Parts Replacement



Old Parts



New Parts replacement

Valve Finished



Valve Figure / Appearance



ReferenceTag Number

Inspection Photo Report

Tag No. : SV-10566

Final-Pressure Test



Testing Appearance



Final Relcif Pressure

Report No.	SYS23320-4832
Tag No.	P-1671A
Job No.	SYS23-SO-320
Date	30-Oct-23
Customer	LINDE

Testing and Inspection Report

Valve Specifications		Material Specifications		Test Standard	
Type	Check Valve	Body	F304	☒ Customer Reference to	☒ API 598
MFG.	FMT	Ball	CF8		☐ API 6D
Model	N/S	Seat	CF8	As Received Valve condition	
Serial No.	N/S	Stem	N/S	☐ Testing Result acceptance	
Inlet Size	1-1/2"	Gasket Bonnet	SWG"W"SS316L/Graphite	☐ Valve Passing, need to overhaul	
Outlet Size	1-1/2"	Packing Set	N/S	☒ Direct to Overhaul	
Class	300# RF			☐ Fouled product / Corrosion	

Certified Pre-Pressure Test Record								
Test Description	Test Requirement				Test Result			
	Medium	Time	Pressure	Leakage Rate	Side A		Side B	
		Sec	Barg		Pressure	Leakage	Pressure	Leakage
LP Closure test	Air			N/A				
HP Closure test	Water							
Shell Test	Water					No visible leaked		
Back Seat Test	Water					No visible leaked		

PART INSPECTION AND MAINTENANCE SERVICE										
No	Valve Part List	Part Inspection					Maintenance & Evaluate			
		Good	Rusty	Scratched	Worn	Specify	Cleaned	Lapping	Machined	Replaced
1	Body/Bonnet	☒	☐	☐	☐		☒	☐	☐	☐
2	Disc	☐	☐	☒	☐		☐	☒	☐	☐
3	Seat	☐	☐	☒	☐		☐	☒	☐	☐
4	Stem	☐	☐	☐	☐		☐	☐	☐	☐
5	Studs and Bolts	☒	☐	☐	☐		☒	☐	☐	☐
6	Fange Face	☒	☐	☐	☐		☒	☐	☐	☐
7	Bonnet Gasket	☐	☐	☐	☒		☐	☐	☐	☒
8	Packing Set	☐	☐	☐	☐		☐	☐	☐	☐
9	☐ Handwheel ☐ Gearbox	☐	☐	☐	☐		☐	☐	☐	☐
10		☐	☐	☐	☐		☐	☐	☐	☐

Note	Item	Part Name	Material	QTY	Size/Dimension
	1	Bonnet Gasket	SWG"W"SS316L/Graphite	1 EA	OD64 x ID52 x T3.5 mm.
	2				
	3				
	4				
	5				
	6				
	7				

Certified Final Pressure Test Record									
Test Description	Test Requirement				Test Result				
	Medium	Time	Pressure	Leakage Rate	Side A			Side B	
		Sec	Barg		Pressure	Leakage		Pressure	Leakage
LP Closure test	Air								
HP Closure test	Water	15	54.80	0 cc/min	55.12	60 Sec	0 bb/min		
Shell Test	Water	15	75.80	No Leaked	76.07	No visible leaked			
Back Seat Test	Water			No Leaked		No visible leaked			
Test gauge Certicy:					Final Test Result				
Certificate no.	N23060955		Serial no.	211H230F0071		Passed with Acceptance results			

Report No.	SYS23320-4832
Tag No.	P-1671A
Job No.	SYS23-SO-320
Date	30-Oct-23
Customer	LINDE

Valve Repairing Report

Valve Overhaul / Assembly

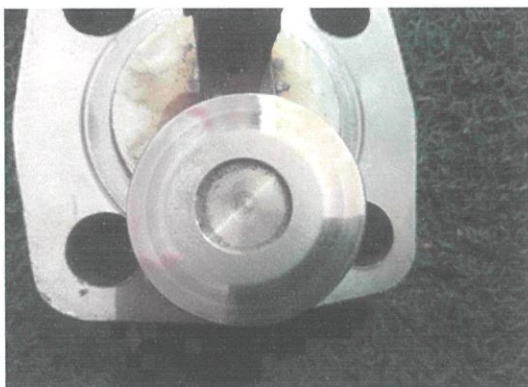


Valve Overhaul/Diassembly



Valve/Parts Assembly

Valve Repairing / Re-Condition



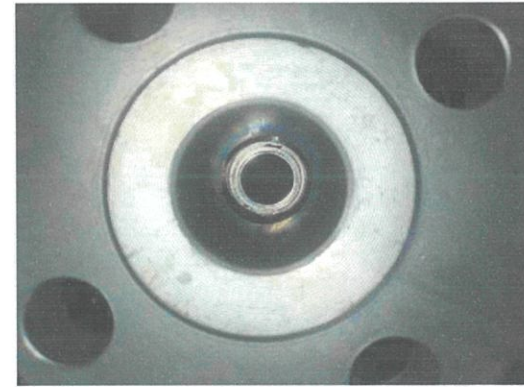
BEFORE : Disc Lapping



AFTER : Disc Lapping



BEFORE : Seat Lapping



AFTER : Seat Lapping

Report No.	SYS23320-4832
Tag No.	P-1671A
Job No.	SYS23-SO-320
Date	30-Oct-23
Customer	LINDE

Part Inspection Report

Parts Replacement



Old Parts



New Parts replacement

Valve Finished



Valve Figure / Apperance



ReferenceTag Number

Report No.	SYS23320-4832
Tag No.	P-1671A
Job No.	SYS23-SO-320
Date	30-Oct-23
Customer	LINDE

Testing and Inspection Report

Valve Testing Figure

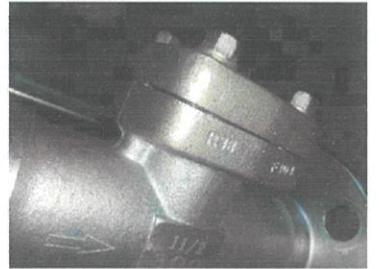
- ☐ LP Closure test
- ☒ HP Closure test A
- ☐ Shell/Body test
- ☐ Back seat test



Pressure Testing

Leakage Testing

- ☐ LP Closure test
- ☐ HP Closure test
- ☒ Shell/Body test
- ☐ Back seat test



Pressure Testing

Leakage Testing

Report No.	SYS23320-4833
Tag No.	P-1671B
Job No.	SYS23-SO-320
Date	30-Oct-23
Customer	LINDE

Testing and Inspection Report

Valve Specifications		Material Specifications		Test Standard	
Type	Check Valve	Body	F304	☒ Customer Reference to	☒ API 598
MFG.	FMT	Ball	CF8		☐ API 6D
Model	N/S	Seat	CF8	As Received Valve condition	
Serial No.	N/S	Stem	N/S	☐ Testing Result acceptance	
Inlet Size	1-1/2"	Gasket Bonnet	SWG"W"SS316L/Graphite	☐ Valve Passing, need to overhaul	
Outlet Size	1-1/2"	Packing Set	N/S	☒ Direct to Overhaul	
Class	300# RF			☐ Fouled product / Corrosion	

Certified Pre-Pressure Test Record								
Test Description	Test Requirement				Test Result			
	Medium	Time	Pressure	Leakage Rate	Side A		Side B	
		Sec	Barg		Pressure	Leakage	Pressure	Leakage
LP Closure test	Air			N/A				
HP Closure test	Water							
Shell Test	Water					No visible leaked		
Back Seat Test	Water					No visible leaked		

PART INSPECTION AND MAINTENANCE SERVICE										
No	Valve Part List	Part Inspection					Maintenance & Evaluate			
		Good	Rusty	Scratched	Worn	Specify	Cleaned	Lapping	Machined	Replaced
1	Body/Bonnet	☒	☐	☐	☐		☒	☐	☐	☐
2	Disc	☐	☐	☒	☐		☐	☒	☐	☐
3	Seat	☐	☐	☒	☐		☐	☒	☐	☐
4	Stem	☐	☐	☐	☐		☐	☐	☐	☐
5	Studs and Bolts	☒	☐	☐	☐		☒	☐	☐	☐
6	Fange Face	☒	☐	☐	☐		☒	☐	☐	☐
7	Bonnet Gasket	☐	☐	☐	☒		☐	☐	☐	☒
8	Packing Set	☐	☐	☐	☐		☐	☐	☐	☐
9	☐ Handwheel ☐ Gearbox	☐	☐	☐	☐		☐	☐	☐	☐
10		☐	☐	☐	☐		☐	☐	☐	☐

Note	Item	Part Name	Material	QTY	Size/Dimension
	1	Bonnet Gasket	SWG"W"SS316L/Graphite	1 EA	OD64 x ID52 x T3.5 mm.
	2				
	3				
	4				
	5				
	6				
	7				

Certified Final Pressure Test Record								
Test Description	Test Requirement				Test Result			
	Medium	Time	Pressure	Leakage Rate	Side A		Side B	
		Sec	Barg		Pressure	Leakage	Pressure	Leakage
LP Closure test	Air							
HP Closure test	Water	15	54.80	0 cc/min	55.91	60 Sec 0 bb/min		
Shell Test	Water	15	75.80	No Leaked	76.60	No visible leaked		
Back Seat Test	Water			No Leaked		No visible leaked		

Report No.	SYS23320-4833
Tag No.	P-1671B
Job No.	SYS23-SO-320
Date	30-Oct-23
Customer	LINDE

Valve Repairing Report

Valve Overhaul / Assembly



Valve Overhaul/Diassembly

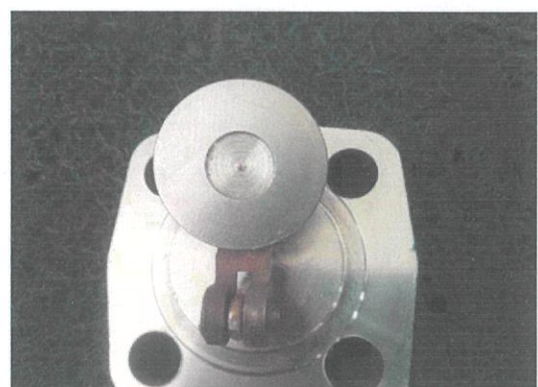


Valve/Parts Assembly

Valve Repairing / Re-Condition



BEFORE : Disc Lapping



AFTER : Disc Lapping



BEFORE : Seat Lapping



AFTER : Seat Lapping

Report No.	SYS23320-4833
Tag No.	P-1671B
Job No.	SYS23-SO-320
Date	30-Oct-23
Customer	LINDE

Part Inspection Report

Parts Replacement



Old Parts

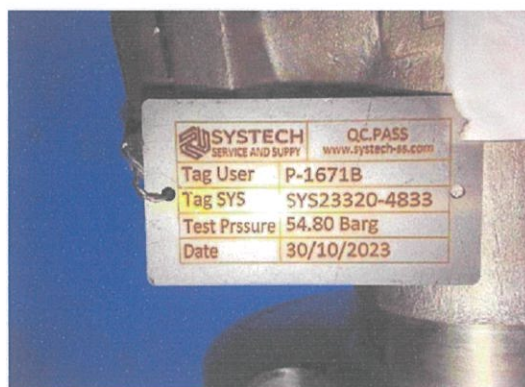


New Parts replacement

Valve Finished



Valve Figure / Apperance



ReferenceTag Number

Report No.	SYS23320-4833
Tag No.	P-1671B
Job No.	SYS23-SO-320
Date	30-Oct-23
Customer	LINDE

Testing and Inspection Report

Valve Testing Figure

- ☐ LP Closure test
- ☒ HP Closure test A
- ☐ Shell/Body test
- ☐ Back seat test



Pressure Testing

Leakage Testing

- ☐ LP Closure test
- ☐ HP Closure test
- ☒ Shell/Body test
- ☐ Back seat test



Pressure Testing

Leakage Testing