

ภาคผนวก ข-30

HyCO Alarm & Trip setting

ภาคผนวก ข-31

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	25-10-23	I30456	10 PFP 03	47	1" 600#	2" 150#	526.0072	LESER	170879-068	R-1001	FDG
2	SV-1003	24-10-23	I30471	10 PFP 03	6	1" 300#	2" 150#	4412.4812	LESER	170879-001	E-1012	NG fuel
3	SV-1006	24-10-23	I30462	10 PFP 07	48	1" 600#	1" 150#	4592.2472	LESER	170879-004	C-1008 B	H2
4	*SV-1101A	24-10-23	06.38887.8/2	11PFP01	47	1 1/2" 600#	3" 150 #	5264.0483	LESER		D1131	Steam
5	*SV-1101B	24-10-23	06.38887.6/1	11PFP01	47	1 1/2" 600#	3" 150 #	5264.0483	LESER		D1131	Steam
6	*SV-1101C	24-10-23	10524399	11PFP01	47	1 1/2" 600#	3" 150 #	5264.0483	LESER		D1131	Steam
7	*SV-1101D	24-10-23	11274476	11PFP01	47	1 1/2" 600#	3" 150 #	5262.0485	LESER		D1131	Steam
8	SV-1102	22-10-23	I30474	11 PFP 09	4	1" 300#	2" 150#	4412.4812	LESER	170879-005	FG-18002-150	FG
9	SV-1103	25-10-23	I30459	11 PFP 02	47	11/2" 1500#	2" 300#	5267.0083	LESER	170879-006	R-1105	FDG
10	SV-1201	25-10-23	I30490	12 PFP 02	35	2" 600#	3" 150#	5264.1552	LESER	170879-007	D-1232	REFG
11	SV-1301	25-10-23	I30475	13 PFP 01	15	1" 300#	2" 150#	4412.4812	LESER	170879-008	P-1371 A	BFW
12	SV-1302	25-10-23	I30476	13 PFP 01	15	1" 300#	2" 150#	4412.4812	LESER	170879-009	P-1371 B	BFW
13	SV-1303	24-10-23	I30492	13 PFP 02	4	11/2" 300#	3" 150#	5262.1432	LESER	70879-0010	D-1331	LPS
14	SV-1304	24-10-23	I30477	13 PFP 03	7	1" 300#	2" 150#	4412.4813	LESER	170879-0011	LPS-13009-100	LPS
15	SV-1401	24-10-23	I30493	14 PFP 02	4	2" 300#	3" 150#	4412.4842	LESER	170879-012	D-1432	MDEA
16	SV-1402	25-10-23	I30501	14 PFP 04	3,5	3" 150#	4" 150 #	4414.7962	LESER	170879-013	D-1441	CO2
17	SV-1403	25-10-23	I30502	14 PFP 05	6	11/2" 300#	3" 150#	5264.1532	LESER	170879-014	D-1442	CO2
18	SV-1404	24-10-23	I30503	14 PFP 06	15	1" 300#	2" 150#	4414.7912	LESER	170879-015	D-1443	CO2
19	SV-1405	24-10-23	I30504	14 PFP 06	47	1" 600#	2" 150#	5264.0122	LESER	170879-016	C-1408 Stage 3rd	CO2
20	SV-1406	24-10-23	I30480	14 PFP 03	13	1" 300#	2" 150#	4412.4812	LESER		P-1474 A	MDEA
21	SV-1407	24-10-23	I30481	14 PFP 03	13	1" 300#	2" 150#	4412.4812	LESER		P-1474 B	MDEA
22	SV-1501	26-10-23	I30482	15 PFP 01	35	1" 300#	2" 150#	4412.4812	LESER	170879-017	D-1531	MDEA
23	SV-1502	25-10-23	I30483	15 PFP 02	35	1" 300#	2" 150#	4412.4812	LESER	170879-018	A-1501 A	WF
24	SV-1503	25-10-23	I30484	15 PFP 02	35	1" 300#	2" 150#	4412.4812	LESER	170879-019	A-1501 B	WF
25	SV-1504	25-10-23	I30485	15 PFP 04	32	1" 300#	2" 150#	4412.4812	LESER	170879-020	D-1541	H2
26	SV-1601	26-10-23	I30505	16 PFP 02	30	1" 300#	2" 150#	4414.7912	LESER	ST-REP-181324-0009	X-1606	CO
27	SV-1602	28-10-23	I30506	16 PFP 10	35	1" 300#	2" 150#	4414.7912	LESER	170879-021	T-1601 Cold Box	H2
28	SV-1603	26-10-23	I30507	16 PFP 10	3.5	3" 150#	4" 150 #	4414.7962	LESER	170879-022	T-1603 Cold Box	CO
29	SV-1604	26-10-23	I30508	16 PFP 10	24	1" 300#	2" 150#	4414.7912	LESER	170879-023	TG-16024-80	TG
30	SV-1605	28-10-23	I30509	16 PFP 02	24	1" 300#	2" 150#	4414.7912	LESER	ST-REP-181324-0010	LN-16085-25	N2
31	SV-1606	24-10-23	I30510	16 PFP 04	10.5	11/2" 300#	3" 150#	5264.1532	LESER	170879-069	T-1602	CO
32	SV-1607	24-10-23	I30511	16 PFP 06	35	1" 300#	1" 150#	4334.4282	LESER		P-1671 A discharge	CH4
33	SV-1608	25-10-23	I30512	16 PFP 06	35	1" 300#	1" 150#	4334.4282	LESER	ST-REP-181324-0004	P-1671 B discharge	CH4
34	SV-1609	26-10-23	I30513	16 PFP 03	16	1" 300#	1" 150#	4334.4282	LESER	ST-REP-181324-0011	D-1633	CO
35	SV-1610	28-10-23	I30494	16 PFP 08	16	2" 300#	3" 150#	4412.4842	LESER	170879-024	C-1608 3rd stage	CO
36	SV-1611	25-10-23	I30495	16 PFP 08	30	11/2" 300#	3" 150#	4412.4822	LESER	170879-025	C-1608 4th stage	CO
37	SV-1612	24-10-23	I30514	16 PFP 09	16	1" 300#	2" 150#	4414.7912	LESER	170879-026	E-1630 A/B	CO
38	SV-1613	25-10-23	I30515	16 PFP 06	4	1" 300#	2" 150#	4414.7912	LESER	170879-027	P-1671 A suction	CH4
39	SV-1614	24-10-23	I30516	16 PFP 06	4	1" 300#	2" 150#	4414.7912	LESER	170879-028	P-1671 B suction	CH4
40	SV-1615	28-10-23	I30497	16 PFP 07	5	3" 150#	4" 150 #	4412.7862	LESER	170879-029	C-1608 1st stage	CO
41	SV-1616	28-10-23	I30499	16 PFP 07	10	2" 300#	3" 150#	4412.4842	LESER	170879-030	C-1608 2nd stage	CO
42	SV-1617	24-10-23	I30498	16 PFP 08	2	3" 150#	4" 150 #	4412.4862	LESER	170879-031	C-1608	CO
43	SV-1618	26-10-23	I30500	16 PFP 08	8	2" 300#	3" 150#	4412.4842	LESER	170879-032	C-1608	CWR
44	PSV-1619	24-10-23		16 PFP 01	6	3/4" NPT	1" NPT	4593.2512	LESER	170879-062	X-1606	CWR
45	PSV-1620	29-10-23		16 PFP 01	30	3/4" NPT	1" NPT	4593.2572	LESER	170879-063	X-1606	SLG
46	SV-1621	22-10-23	I30487	16 PFP 07	5	1" 300#	2" 150#	4412.4812	LESER	170879-033	C-1608 inlet	CO
47	*SV-1651	22-10-23		*16PFP08	32	11/2" 300#	3" 150#	526.0472	LESER	PTH-PRC-ED-0001	A-1651 New CO2 absorber	CO
48	SV-1665	22-10-23		16 PFP 13	16	1" 300	2" 150	44124812	LESER	170879-059	CO-16011-80	CO
49	SV-1801	22-10-23	I30491	18 PFP 01	3	2" 300#	3" 150#	4412.4842	LESER	170879-034	D-1832	PUG
50	SV-18010	22-10-23	I30463	18 PFP 03	32	1" 300#	2" 150#	4412.4812	LESER	170879-035	A-1810	H2
51	SV-18020	26-10-23	I30464	18 PFP 03	32	1" 300#	2" 150#	4412.4812	LESER	170879-036	A-1820	H2
52	SV-18030	26-10-23	I30465	18 PFP 03	32	1" 300#	2" 150#	4412.4812	LESER	170879-037	A-1830	H2
53	SV-18040	28-10-23	I30466	18 PFP 03	32	1" 300#	2" 150#	4412.4812	LESER	170879-038	A-1840	H2
54	SV-18050	26-10-23	I30467	18 PFP 03	32	1" 300#	2" 150#	4412.4812	LESER	170879-039	A-1850	H2
55	PSV-85A-1	26-10-23		H0202-T-D-140-01	22.75	3/4" NPT	1" NPT	JW-0122F/02	BAILEY	170879-048	CO2 Package	CO2
56	PSV-85A-3	28-10-23		H0202-T-D-140-01	22.75	3/4" NPT	1" NPT	JW-0122F/02	BAILEY	170879-041	CO2 Package	CO2
57	PSV-85A-4	28-10-23		H0202-T-D-140-01	22.75	3/4" NPT	1" NPT	S 141856/C1309-302	BIRKETT	170879-043	CO2 Package	CO2
58	PSV-85B-1	26-10-23		H0202-T-D-140-01	46	3/4" NPT	1" NPT	JW-0122F/02	BAILEY	170879-064	CO2 Package	CO2
59	PSV-85B-2	29-10-23		H0202-T-D-140-01	45	3/4" NPT	1" NPT	S141848/C2827-302	BIRKETT	170879-055	CO2 Package	CO2
60	PSV-85B-3	26-10-23		H0202-T-D-140-01	45	3/4" NPT	1" NPT	S141849/C2827-302	BIRKETT	170879-045	CO2 Package	CO2
61	PSV-85B-4	28-10-23		H0202-T-D-140-01	46	3/4" NPT	1" NPT	S141854/C1309-302	BIRKETT	170879-044	CO2 Package	CO2
62	PSV-851A-1	28-10-23		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	29-10-23		H0202-T-D-140-01	22.75	3/4" NPT	1" NPT				CO2 Pump P-851 A	CO2
64	PSV-851A-3	28-10-23		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	28-10-23		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	28-10-23		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	28-10-23		H0202-T-D-140-01	22.75	3/4" NPT	1" NPT				CO2 pump P-851 B	CO2
68	PSV-851B-3	28-10-23		H0202-T-D-140-01	55	1" NPT	1 1/4" NPT	776728-90			CO2 pump P-851 B	CO2
69	PSV-851B-4	26-10-23		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	26-10-23		H0202-T-D-140-01	46	3/4" NPT	1" NPT	7D/2CF-22/C	BIRKETT	170879-042	CO2 Package	CO2
71	PSV-852-1	29-10-23		H0202-T-D-140-01	45	3/4" NPT	1" NPT	7D/2CF422/C	BIRKETT	170879-051	CO2 Package	CO2
72	PSV-852-2	1/10/2018		H0202-T-D-140-01	45	3/4" NPT	1" NPT	7D/2CF422/C	BIRKETT	170879-052	CO2 Package	CO2
73	PSV-852-3	29-10-23		H0202-T-D-140-01	45	3/4" NPT	1" NPT	7D/2CF422/C	BIRKETT	170879-053	CO2 Package	CO2
74	PSV-852-4	24-10-23		H0202-T-D-140-01	45	3/4" NPT	1" NPT	7D/2CF422/C	BIRKETT	170879-054	CO2 Package	CO2
75	*PSV1202	24-10-23		H0202-T-D-140-01	12	1" 300	1 1/2." 150	746112M	BAILEY	170879-060	CO2 Package (steam)	CO2
76	*PSV1203	24-10-23		030109-087	45	DN 24(1")	DN 60(2")		LESER		Boiler Pakacge	Steam
77	*PSV1204	24-10-23	04428291/2	030109-088	45	DN 24(1")	DN 60(2")	4582.6114	LESER		Boiler Pakacge	Steam
78	*PSV1205	24-10-23		030109-089	10.5	DN 32(1-1/4")	DN 50(2")		LESER		Boiler Pakacge	Steam
79	*PSV1206	24-10-23	321809	030109-090	1.5	DN 50(2")	DN 80(3")	50503	LESER		Boiler Pakacge	Steam
80	PSV-1301	1/10/2018		H020-T-D-115-01	46	3/4" 300	1" 150	7D/2CF422	BIRKETT	ST-REP-181324-0002	Fuel Gas Supply System	FG
81	PSV-1302	22-10-23		H020-T-D-115-01	4	3/4" NPT	3/4" NPT	140466	BAILEY	170879-058	Fuel Gas Supply System	FG
82	PSV-1303	22-10-23		H020-T-D-115-01	28	3/4" 300	1"150	861601MA	CROSBY	ST-REP-181324-0002	Fuel Gas Supply System	FG
83	PSV-1311	22-10-23		H020-T-D-115-01	17	1/2" NPT	1" NPT	SV 07.80A87	BIRKETT	170879-061	Fuel Gas Supply System	FG
84	SV- 401	1/10/2024		H020-T-D-106-01	31	3/4" NPT	1" NPT		BIRKETT	ST-REP-181324-0001	H2 Metering Skid	H2
85	SV-10530	22-10-23		BD50.001	39.4	3/4" NPT	1" NPT	4593.2522	LESER	ST-REP-181324-0005	C-10501 Suction	NG
86	SV-10531	22-10-23		BD50.001	50	3/4" NPT	1" NPT	4593.2522	LESER	ST-REP-181324-0006	C-10501 Discharge	NG
87	PSV-10560	22-10-23		BD50.001	3	1/2" NPT	1/2" NPT	SPV 10 A 1G 1 A 05	KRACHT		P-10503 AUX Oil Pump	Oil
88	PSV-10561	22-10-23		BD50.001</								

ภาคผนวก ข-32

เอกสารสอบเทียบ

Safety Relief Valve Report

Tag No.	SV-1001	Equipment No.	N/S	Report No.	SYS23320-4717
Customer	LINDE	Location	N/S	Date	24-Oct-23

PSV Type ☐ SPRING LOADED ☐ PILOT OPERATED ☒ BELLOW TYPE

Valve Data

Manufacturer	LESER	Set Pressure	47.00	<input type="checkbox"/> PSIG
Model	626.0072	New Set Pres.	N/A	<input checked="" type="checkbox"/> BARG
Serial No.	170879-068	CDTP	N/S	<input type="checkbox"/> kgf/cm2
Inlet size	1" 600# RF	T/C Factor	N/S	<input type="checkbox"/> MPa
Outlet size	2" 150# RF	Back Pressure	N/S	
Orifice	N/S	Capacity	N/S	

Test Standard

ASME	<input checked="" type="checkbox"/> Sec.VIII <input type="checkbox"/> Sec.I
Classification	<input type="checkbox"/> Non-Code
Test standard	<input checked="" type="checkbox"/> API 527 <input type="checkbox"/> API2000
	<input type="checkbox"/> MFG <input type="checkbox"/> Customer
Seat Type	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Soft Seat
Test Medium	<input checked="" type="checkbox"/> N2/Air <input type="checkbox"/> Water

Valve Disassembly and Inspection

Part Name	GOOD	RUST	SCRATCH	WORN	CRACK	BROKEN	DAMAGED
Flange In/Out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Body/Bonnet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nozzle	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Guide/Holder	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spindle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spring/Washer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bellow	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Disc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gaskets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Maintenance Performed

REUSED	CLEAN	LAPPING	MACHINE	REPLACED(P/N)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Pilot Valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Spring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Seal Kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Tube fitting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Note:

Disc
(mm)



Before 22.5 mm. After 22.5 mm.

Nozzle
(mm)



Before 2.0 mm. After 2.0 mm.

Adjusting Bolts
(mm)



Before 12.5 mm. After 13.0 mm.

Failure Cause

- ☒ Seat surface damaged
☒ Particle/Dirty

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

- ☐ Valve Passing

☐

Testing Requirement

Set Pressure	47.00	<input type="checkbox"/> Psig
Criteria	<input checked="" type="checkbox"/> ±3% <input type="checkbox"/> ±2psi	<input checked="" type="checkbox"/> Barg
Min	45.59	<input type="checkbox"/> kgf/cm2
Max	48.41	<input type="checkbox"/> MPa
Leakage pressure test	42.30	<input checked="" type="checkbox"/> Bpm
Leak rate acceptance	20	<input type="checkbox"/> cc/min

Body/Bellow test at:

Nozzle ring set

Guide ring set

Pre-test

47.26	Result:	<input checked="" type="checkbox"/> Pass
		<input type="checkbox"/> Fail
		<input type="checkbox"/> N/a
42.01	Result:	<input type="checkbox"/> Pass
EXCESSIVE LEAK		<input checked="" type="checkbox"/> Fail
		<input type="checkbox"/> N/a
<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> N/a		
-5	Nothes	
N/A	Nothes	

Final Test

47.19	Result:	<input checked="" type="checkbox"/> Pass
		<input type="checkbox"/> Fail
		<input type="checkbox"/> N/a
42.88	Result:	<input checked="" type="checkbox"/> Pass
0		<input type="checkbox"/> Fail
		<input type="checkbox"/> N/a
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/a		
-5	Nothes	
N/A	Nothes	

Test Gauge Data

Range 5000 PSI

Certificate no. OSI23-ITC-051

Scope of Work

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

Tested by

Date 25-Oct-23

Date 25-Oct-23

Systech Service and Supply



Witness by

Date 26-Oct-23

Customer/Inspector

Inspection Photo Report

Tag No. : SV-1001

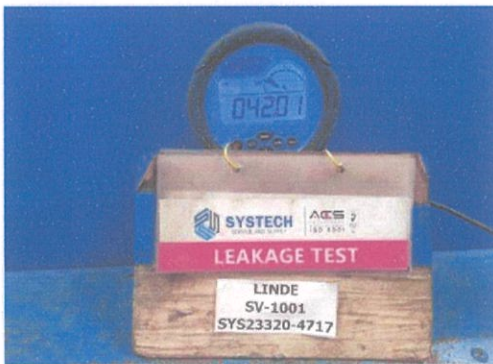
Pre-Pressure Test



Testing Appearance



Initial Relief Pressure



Initial Leakage Pressure Test



Initial Leakage Result

Inspection Photo Report

Tag No. : SV-1001

Valve Disassembly/Assembly



Valve Dis-Assembly



Valve Assembly

Parts Repaired and Replaced



Disc (Before Lapping)



Disc (After Lapping)



Nozzle (Before Lapping)

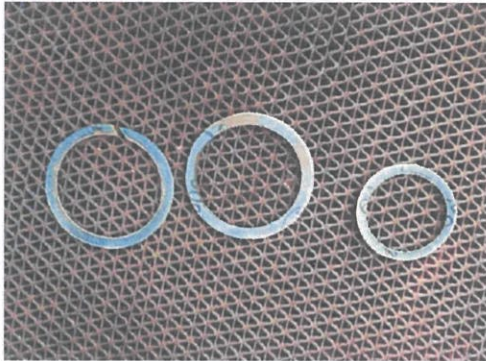


Nozzle (After Lapping)

Inspection Photo Report

Tag No. : SV-1001

Parts Replacement



Old Parts



New Parts replacement

Bellow (PT Test)



PT Test



PT Test

Inspection Photo Report

Tag No. : SV-1001

Final-Pressure Test



Testing Appearance



Final Relief Pressure



Final Leakage Pressure Test



Final Leakage Result

Valve Finished



Valve Figure / Appearance



ReferenceTag Number

Safety Relief Valve Report

Tag No.	SV-1003	Equipment No.	N/S	Report No.	SYS23320-4745
Customer	LINDE	Location	N/S	Date	22-Oct-23

PSV Type ☐ SPRING LOADED ☐ PILOT OPERATED ☒ BELLOW TYPE

Valve Data

Manufacturer	LESER	Set Pressure	6.00	<input type="checkbox"/> PSIG
Model	4412.4812	New Set Pres.	N/A	<input checked="" type="checkbox"/> BARG
Serial No.	170879-001	CDTP	N/S	<input type="checkbox"/> kgf/cm2
Inlet size	1" 300# RF	T/C Factor	N/S	<input type="checkbox"/> MPa
Outlet size	2" 150# RF	Back Pressure	N/S	
Orifice	N/S	Capacity	N/S	

Test Standard

ASME	<input checked="" type="checkbox"/> Sec.VIII <input type="checkbox"/> Sec.I
Classification	<input type="checkbox"/> Non-Code
Test standard	<input checked="" type="checkbox"/> API 527 <input type="checkbox"/> API2000
	<input type="checkbox"/> MFG <input type="checkbox"/> Customer
Seat Type	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Soft Seat
Test Medium	<input checked="" type="checkbox"/> N2/Air <input type="checkbox"/> Water

Valve Disassembly and Inspection

Part Name	GOOD	RUST	SCRATCH	WORN	CRACK	BROKEN	DAMAGED
Flange In/Out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Body/Bonnet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nozzle	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Guide/Holder	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spindle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spring/Washer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bellow	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Disc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gaskets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Maintenance Performed

REUSED	CLEAN	LAPPING	MACHINE	REPLACED(P/N)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Pilot Valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Spring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Seal Kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Tube fitting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Note:

Disc (mm)	Before	9.3 mm.	After	9.0 mm.
-----------	--------	---------	-------	---------

Nozzle (mm)	Before	0.5 mm.	After	0.5 mm.
-------------	--------	---------	-------	---------

Adjusting Bolts (mm)	Before	25.0 mm.	After	25.0 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
Criteria	<input checked="" type="checkbox"/> $\pm 3\%$ <input type="checkbox"/> $\pm 2\text{psi}$
Min	5.82
Max	6.18
Leakage pressure test	5.40
Leak rate acceptance	20
	<input type="checkbox"/> Bpm <input type="checkbox"/> cc/min
Body/Bellow test at:	
Nozzle ring set	
Guide ring set	

Pre-test	
6.02	Result: <input checked="" type="checkbox"/> Pass
	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
5.30	Result: <input type="checkbox"/> Pass
EXCESSIVE LEAK	<input checked="" type="checkbox"/> Fail
	<input type="checkbox"/> N/a
<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> N/a	Nothes
N/A	Nothes
N/A	Nothes

Final Test	
6.14	Result: <input checked="" type="checkbox"/> Pass
	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
5.53	Result: <input checked="" type="checkbox"/> Pass
0	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/a	Nothes
N/A	Nothes
N/A	Nothes

Test Gauge Data
Scope of Work

Range 1000 PSI

Certificate no. OSI23-ITC-082

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

Tested by		Date	24-Oct-23	Date	24-Oct-23	Date	24-Oct-23
Systech Service and Supply				Customer/Inspector			

Inspection Photo Report

Tag No. : SV-1003

Pre-Pressure Test



Testing Appearance



Initial Relief Pressure



Initial Leakage Pressure Test



Initial Leakage Result

Inspection Photo Report

Tag No. : SV-1003

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-1003

Parts Replacement



Old Parts

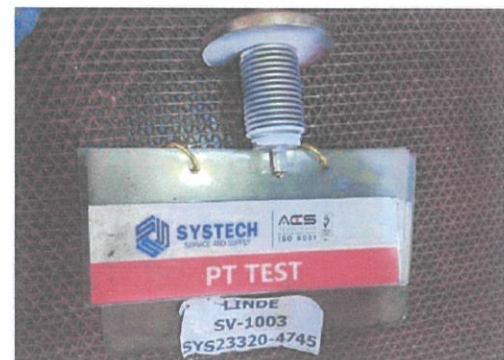


New Parts replacement

Bellow (PT Test)



PT Test



PT Test

Inspection Photo Report

Tag No. : SV-1003

Final-Pressure Test



Testing Appearance



Final Relief Pressure



Final Leakage Pressure Test



Final Leakage Result

Valve Finished



Valve Figure / Appearance



ReferenceTag Number

Safety Relief Valve Report

Tag No.	SV-1006	Equipment No.	N/S	Report No.	SYS23320-4748
Customer	LINDE	Location	N/S	Date	22-Oct-23

PSV Type ☒ SPRING LOADED ☐ PILOT OPERATED ☐ BELLOW TYPE

Valve Data

Manufacturer	LESER	Set Pressure	48.00	<input type="checkbox"/> PSIG
Model	4592.2472	New Set Pres.	N/A	<input checked="" type="checkbox"/> BARG
Serial No.	170879-004	CDTP	N/S	<input type="checkbox"/> kgf/cm2
Inlet size	1" 600# RF	T/C Factor	N/S	<input type="checkbox"/> MPa
Outlet size	1" 150# RF	Back Pressure	N/S	
Orifice	N/S	Capacity	N/S	

Test Standard

ASME	<input checked="" type="checkbox"/> Sec.VIII <input type="checkbox"/> Sec.I
Classification	<input type="checkbox"/> Non-Code
Test standard	<input checked="" type="checkbox"/> API 527 <input type="checkbox"/> API2000
	<input type="checkbox"/> MFG <input type="checkbox"/> Customer
Seat Type	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Soft Seat
Test Medium	<input checked="" type="checkbox"/> N2/Air <input type="checkbox"/> Water

Valve Disassembly and Inspection

Part Name	GOOD	RUST	SCRATCH	WORN	CRACK	BROKEN	DAMAGED
Flange In/Out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Body/Bonnet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nozzle	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Guide/Holder	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spindle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spring/Washer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bellow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Disc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gaskets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Pilot Valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Spring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Seal Kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Tube fitting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Note:

Disc (mm)	Nozzle (mm)	Adjusting Bolts (mm)
Before 28.34 mm. After N/A	Before 0.5 mm. After N/A	Before 16.0 mm. After 15.0 mm.

Failure Cause ☒ Seat surface damaged
☒ Particle/Dirty

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

☐ Valve Passing
☐

Testing Requirement	
Set Pressure	48.00
Criteria	<input checked="" type="checkbox"/> ±3% <input type="checkbox"/> ±2psi
Min	46.56
Max	49.44
Leakage pressure test	43.20
Leak rate acceptance	20
	<input type="checkbox"/> Psig <input checked="" type="checkbox"/> Barg <input type="checkbox"/> kgf/cm2 <input type="checkbox"/> MPa
	<input checked="" type="checkbox"/> Bpm <input type="checkbox"/> cc/min
Body/Bellow test at:	
Nozzle ring set	
Guide ring set	

Pre-test	
46.83	Result: <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/a
38.07	Result: <input type="checkbox"/> Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/> N/a
EXCESSIVE LEAK	
<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> N/a	Nothes
N/A	Nothes
N/A	Nothes

Final Test	
48.85	Result: <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/a
45.77	Result: <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/a
0	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/a	Nothes
N/A	Nothes
N/A	Nothes

Test Gauge Data
Scope of Work

Range 5000 PSI

Certificate no. OSI23-ITC-051

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

Tested by		Date	24-Oct-23	Date	24-Oct-23	Date	24-Oct-23
Systech Service and Supply				Customer/Inspector			

Inspection Photo Report

Tag No. : SV-1006

Pre-Pressure Test



Testing Appearance



Initial Relief Pressure



Initial Leakage Pressure Test



Initial Leakage Result

Inspection Photo Report

Tag No. : SV-1006

Valve Disassembly/Assembly



Valve Dis-Assembly



Valve Assembly

Parts Repaired and Replaced



Disc (Before Lapping)



Disc (After Lapping)



Nozzle (Before Lapping)

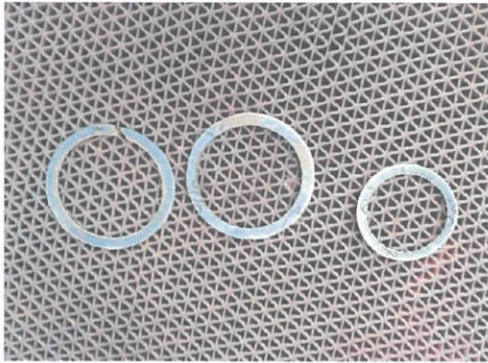


Nozzle (After Lapping)

Inspection Photo Report

Tag No. : SV-1006

Parts Replacement



Old Parts



New Parts replacement

Valve Finished



Valve Figure / Apperance



ReferenceTag Number

Inspection Photo Report

Tag No. : SV-1006

Final-Pressure Test



Testing Appearance



Final Relief Pressure



Final Leakage Pressure Test



Final Leakage Result

Safety Relief Valve Report

Tag No.	SV-1102	Equipment No.	N/S	Report No.	SYS23320-4749
Customer	LINDE	Location	N/S	Date	22-Oct-23

PSV Type ☐ SPRING LOADED ☐ PILOT OPERATED ☒ BELLOW TYPE

Valve Data

Manufacturer	LESER	Set Pressure	4.00	<input type="checkbox"/> PSIG
Model	4412.4812	New Set Pres.	N/A	<input checked="" type="checkbox"/> BARG
Serial No.	170879-005	CDTP	N/S	<input type="checkbox"/> kgf/cm2
Inlet size	1" 300# RF	T/C Factor	N/S	<input type="checkbox"/> MPa
Outlet size	2" 150# RF	Back Pressure	N/S	
Orifice	N/S	Capacity	N/S	

Test Standard

ASME	<input checked="" type="checkbox"/> Sec.VIII <input type="checkbox"/> Sec.I
Classification	<input type="checkbox"/> Non-Code
Test standard	<input checked="" type="checkbox"/> API 527 <input type="checkbox"/> API2000
	<input type="checkbox"/> MFG <input type="checkbox"/> Customer
Seat Type	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Soft Seat
Test Medium	<input checked="" type="checkbox"/> N2/Air <input type="checkbox"/> Water

Valve Disassembly and Inspection

Part Name	GOOD	RUST	SCRATCH	WORN	CRACK	BROKEN	DAMAGED
Flange In/Out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Body/Bonnet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nozzle	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Guide/Holder	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spindle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spring/Washer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bellow	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Disc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gaskets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Maintenance Performed

REUSED	CLEAN	LAPPING	MACHINE	REPLACED(P/N)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Pilot Valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Spring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Seal Kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Tube fitting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Note:

Disc (mm)	Before	9.3 mm.	After	N/A
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Nozzle (mm)	Before	0.5 mm.	After	N/A
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Adjusting Bolts (mm)	Before	25.0 mm.	After	23.0 mm.
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Failure Cause ☒ Seat surface damaged
☒ Particle/Dirty

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

☐ Valve Passing
☐

Testing Requirement	
Set Pressure	4.00
Criteria	<input type="checkbox"/> $\pm 3\%$ <input checked="" type="checkbox"/> $\pm 2\text{psi}$
Min	3.86
Max	4.14
Leakage pressure test	3.60
Leak rate acceptance	20
	<input checked="" type="checkbox"/> Bpm <input type="checkbox"/> cc/min
Body/Bellow test at:	
Nozzle ring set	
Guide ring set	

Pre-test	
3.94	Result: <input checked="" type="checkbox"/> Pass
	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
3.26	Result: <input type="checkbox"/> Pass
EXCESSIVE LEAK	<input checked="" type="checkbox"/> Fail
	<input type="checkbox"/> N/a
<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> N/a	
N/A	Nothes
N/A	Nothes

Final Test	
4.02	Result: <input checked="" type="checkbox"/> Pass
	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
3.79	Result: <input checked="" type="checkbox"/> Pass
0	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/a	
N/A	Nothes
N/A	Nothes

Test Gauge Data
Scope of Work

Range 1000 PSI

Certificate no. OSI23-ITC-082

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

Tested by		Date	24-Oct-23	Date	24-Oct-23	Date	24-Oct-23
Systech Service and Supply				Customer/Inspector			

Inspection Photo Report

Tag No. : SV-1102

Pre-Pressure Test



Testing Appearance



Initial Relief Pressure



Initial Leakage Pressure Test



Initial Leakage Result

Inspection Photo Report

Tag No. : SV-1102

Valve Disassembly/Assembly



Valve Dis-Assembly



Valve Assembly

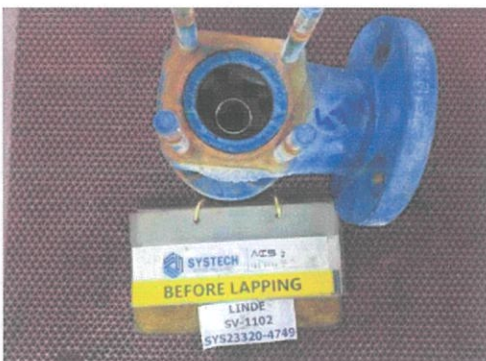
Parts Repaired and Replaced



Disc (Before Lapping)



Disc (After Lapping)



Nozzle (Before Lapping)

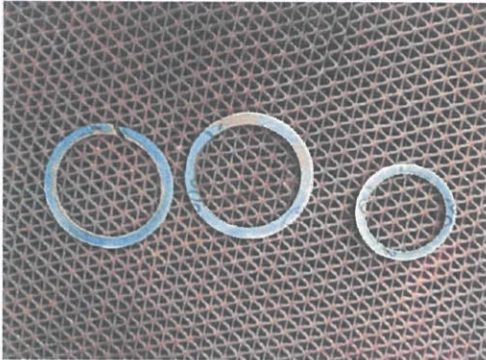


Nozzle (After Lapping)

Inspection Photo Report

Tag No. : SV-1102

Parts Replacement



Old Parts



New Parts replacement

Bellow (PT Test)



PT Test



PT Test

Inspection Photo Report

Tag No. : SV-1102

Final-Pressure Test



Testing Appearance



Final Relief Pressure



Final Leakage Pressure Test



Final Leakage Result

Valve Finished



Valve Figure / Apperance



Reference Tag Number

Safety Relief Valve Report

Tag No.	SV-1103	Equipment No.	N/S	Report No.	SYS23320-4750
Customer	LINDE	Location	N/S	Date	24-Oct-23

PSV Type ☐ SPRING LOADED ☐ PILOT OPERATED ☒ BELLOW TYPE

Valve Data

Manufacturer	LESER	Set Pressure	47.00	<input type="checkbox"/> PSIG
Model	5267.0083	New Set Pres.	N/A	<input checked="" type="checkbox"/> BARG
Serial No.	170879-006	CDTP	N/S	<input type="checkbox"/> kgf/cm2
Inlet size	1-1/2" 1500# RF	T/C Factor	N/S	<input type="checkbox"/> MPa
Outlet size	2" 300# RF	Back Pressure	0.00	
Orifice	N/S	Capacity	N/S	

Test Standard

ASME	<input checked="" type="checkbox"/> Sec.VIII <input type="checkbox"/> Sec.I
Classification	<input type="checkbox"/> Non-Code
Test standard	<input checked="" type="checkbox"/> API 527 <input type="checkbox"/> API2000
	<input type="checkbox"/> MFG <input type="checkbox"/> Customer
Seat Type	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Soft Seat
Test Medium	<input checked="" type="checkbox"/> N2/Air <input type="checkbox"/> Water

Valve Disassembly and Inspection

Part Name	GOOD	RUST	SCRATCH	WORN	CRACK	BROKEN	DAMAGED
Flange In/Out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Body/Bonnet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nozzle	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Guide/Holder	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spindle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spring/Washer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bellow	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Disc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gaskets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Maintenance Performed

REUSED	CLEAN	LAPPING	MACHINE	REPLACED(P/N)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Pilot Valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Spring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Seal Kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Tube fitting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Note:

Disc (mm)	Before	22.2 mm.	After	22.1 mm.
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Nozzle (mm)	Before	3.0 mm.	After	3.0 mm.
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Adjusting Bolts (mm)	Before	22.0 mm.	After	16.0 mm.
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Failure Cause ☒ Seat surface damaged
☒ Particle/Dirty

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

☐ Valve Passing
☐

Testing Requirement	
Set Pressure	47.00
Criteria	<input checked="" type="checkbox"/> ±3% <input type="checkbox"/> ±2psi
Min	45.59
Max	48.41
Leakage pressure test	42.30
Leak rate acceptance	20
	<input checked="" type="checkbox"/> Bpm <input type="checkbox"/> cc/min
Body/Bellow test at:	
Nozzle ring set	
Guide ring set	

Pre-test	
48.37	Result: <input checked="" type="checkbox"/> Pass
	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
42.10	Result: <input type="checkbox"/> Pass
EXCESSIVE LEAK	<input checked="" type="checkbox"/> Fail
	<input type="checkbox"/> N/a
<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> N/a	
N/A	Nothes
N/A	Nothes

Final Test	
47.38	Result: <input checked="" type="checkbox"/> Pass
	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
42.92	Result: <input checked="" type="checkbox"/> Pass
0	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/a	
N/A	Nothes
N/A	Nothes

Test Gauge Data
Scope of Work

Range 5000 PSI

Certificate no. OSI23-ITC-051

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

Tested by		Date	25-Oct-23	Date	25-Oct-23	Date	25-Oct-23
Systech Service and Supply				Customer/Inspector			

Inspection Photo Report

Tag No. : SV-1103

Pre-Pressure Test



Testing Appearance



Initial Relief Pressure



Initial Leakage Pressure Test



Initial Leakage Result

Inspection Photo Report

Tag No. : SV-1103

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-1103

Bellow (PT Test)



PT Test



PT Test

Valve Finished



Valve Figure / Apperance



ReferenceTag Number

Inspection Photo Report

Tag No. : SV-1103

Final-Pressure Test



Testing Appearance



Final Relief Pressure



Final Leakage Pressure Test



Final Leakage Result

Safety Relief Valve Report

Tag No.	SV-1201	Equipment No.	N/S	Report No.	SY23320-4751
Customer	LINDE	Location	N/S	Date	24-Oct-23

PSV Type ☒ SPRING LOADED ☐ PILOT OPERATED ☐ BELLOW TYPE

Valve Data

Manufacturer	LESER	Set Pressure	35.00	<input type="checkbox"/> PSIG
Model	5264.1552	New Set Pres.	N/A	<input checked="" type="checkbox"/> BARG
Serial No.	170879-007	CDTP	N/S	<input type="checkbox"/> kgf/cm2
Inlet size	2" 600# RF	T/C Factor	N/S	<input type="checkbox"/> MPa
Outlet size	3" 150# RF	Back Pressure	1.00	
Orifice	N/S	Capacity	N/S	

Test Standard

ASME	<input checked="" type="checkbox"/> Sec.VIII <input type="checkbox"/> Sec.I
Classification	<input type="checkbox"/> Non-Code
Test standard	<input checked="" type="checkbox"/> API 527 <input type="checkbox"/> API2000
	<input type="checkbox"/> MFG <input type="checkbox"/> Customer
Seat Type	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Soft Seat
Test Medium	<input checked="" type="checkbox"/> N2/Air <input type="checkbox"/> Water

Valve Disassembly and Inspection

Part Name	GOOD	RUST	SCRATCH	WORN	CRACK	BROKEN	DAMAGED
Flange In/Out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Body/Bonnet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nozzle	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Guide/Holder	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spindle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spring/Washer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bellow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Disc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gaskets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Maintenance Performed

REUSED	CLEAN	LAPPING	MACHINE	REPLACED(P/N)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Pilot Valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Spring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Seal Kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Tube fitting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Note:

Disc (mm)	Before	22.4 mm.	After	22.2 mm.
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Nozzle (mm)	Before	3.0 mm.	After	3.0 mm.
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Adjusting Bolts (mm)	Before	39.0 mm.	After	38.5 mm.
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Failure Cause ☒ Seat surface damaged
☒ Particle/Dirty

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

☐ Valve Passing
☐

Testing Requirement	
Set Pressure	35.00
Criteria	<input checked="" type="checkbox"/> ±3% <input type="checkbox"/> ±2psi
Min	33.95
Max	36.05
Leakage pressure test	31.50
Leak rate acceptance	20
	<input checked="" type="checkbox"/> Bpm <input type="checkbox"/> cc/min
Body/Bellow test at:	
Nozzle ring set	
Guide ring set	

Pre-test	
35.08	Result: <input checked="" type="checkbox"/> Pass
	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
31.05	Result: <input type="checkbox"/> Pass
EXCESSIVE LEAK	<input checked="" type="checkbox"/> Fail
	<input type="checkbox"/> N/a
<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> N/a	
-5	Nothes
N/A	Nothes

Final Test	
35.29	Result: <input checked="" type="checkbox"/> Pass
	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
33.52	Result: <input checked="" type="checkbox"/> Pass
0	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/a	
-5	Nothes
N/A	Nothes

Test Gauge Data
Scope of Work

Range 5000 PSI

Certificate no. OSI23-ITC-051

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

Tested by		Date	25-Oct-23	Date	25-Oct-23	Date	25-Oct-23

Systech Service and Supply



Customer/Inspector

Inspection Photo Report

Tag No. : SV-1201

Pre-Pressure Test



Testing Appearance



Initial Relief Pressure



Initial Leakage Pressure Test



Initial Leakage Result

Inspection Photo Report

Tag No. : SV-1201

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-1201

Parts Replacement



Old Parts



New Parts replacement

Valve Finished



Valve Figure / Apperance



ReferenceTag Number

Inspection Photo Report

Tag No. : SV-1201

Final-Pressure Test



Testing Appearance



Final Relief Pressure



Final Leakage Pressure Test



Final Leakage Result

Safety Relief Valve Report

Tag No.	SV-1301	Equipment No.	N/S	Report No.	SYS23320-4752
Customer	LINDE	Location	N/S	Date	21-Oct-23

PSV Type ☒ SPRING LOADED ☐ PILOT OPERATED ☐ BELLOW TYPE

Valve Data

Manufacturer	LESER	Set Pressure	15.00	<input type="checkbox"/> PSIG
Model	4412.4812.05.02	New Set Pres.	N/A	<input checked="" type="checkbox"/> BARG
Serial No.	06.38887.10/1	CDTP	N/S	<input type="checkbox"/> kgf/cm2
Inlet size	1" 300# RF	T/C Factor	N/S	<input type="checkbox"/> MPa
Outlet size	2" 150# RF	Back Pressure	N/S	
Orifice	N/S	Capacity	N/S	

Test Standard

ASME	<input checked="" type="checkbox"/> Sec.VIII <input type="checkbox"/> Sec.I
Classification	<input type="checkbox"/> Non-Code
Test standard	<input checked="" type="checkbox"/> API 527 <input type="checkbox"/> API2000
	<input type="checkbox"/> MFG <input type="checkbox"/> Customer
Seat Type	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Soft Seat
Test Medium	<input checked="" type="checkbox"/> N2/Air <input type="checkbox"/> Water

Valve Disassembly and Inspection

Part Name	GOOD	RUST	SCRATCH	WORN	CRACK	BROKEN	DAMAGED
Flange In/Out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Body/Bonnet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nozzle	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Guide/Holder	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spindle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spring/Washer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bellow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Disc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gaskets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Maintenance Performed

REUSED	CLEAN	LAPPING	MACHINE	REPLACED(P/N)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Pilot Valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Spring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Seal Kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Tube fitting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Note:

Disc (mm)	Before	2.0 mm.	After	1.9 mm.
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Nozzle (mm)	Before	0.9 mm.	After	0.9 mm.
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Adjusting Bolts (mm)	Before	15.0 mm.	After	13.0 mm.
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Failure Cause ☒ Seat surface damaged
☒ Particle/Dirty

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

☐ Valve Passing
☐

Testing Requirement	
Set Pressure	15.00
Criteria	<input checked="" type="checkbox"/> ±3% <input type="checkbox"/> ±2psi
Min	14.55
Max	15.45
Leakage pressure test	13.50
Leak rate acceptance	20
	<input checked="" type="checkbox"/> Bpm <input type="checkbox"/> cc/min
Body/Bellow test at:	
Nozzle ring set	
Guide ring set	

Pre-test	
15.00	Result: <input checked="" type="checkbox"/> Pass
	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
13.15	Result: <input type="checkbox"/> Pass
EXCESSIVE LEAK	<input checked="" type="checkbox"/> Fail
	<input type="checkbox"/> N/a
<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> N/a	Nothes
N/A	Nothes
N/A	Nothes

Final Test	
15.29	Result: <input checked="" type="checkbox"/> Pass
	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
13.55	Result: <input checked="" type="checkbox"/> Pass
0	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/a	Nothes
N/A	Nothes
N/A	Nothes

Test Gauge Data
Scope of Work

Range 1000 PSI

Certificate no. OSI23-ITC-082

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

Tested by		Date	22-Oct-23	Date	22-Oct-23	Date	22-Oct-23

Systech Service and Supply



Customer/Inspector

Inspection Photo Report

Tag No. : SV-1301

Pre-Pressure Test



Testing Appearance



Initial Relief Pressure



Initial Leakage Pressure Test



Initial Leakage Result

Inspection Photo Report

Tag No. : SV-1301

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-1301

Parts Replacement



Old Parts



New Parts replacement

Valve Finished



Valve Figure / Appearance



ReferenceTag Number

Inspection Photo Report

Tag No. : SV-1301

Final-Pressure Test



Testing Appearance



Final Relief Pressure



Final Leakage Pressure Test



Final Leakage Result

Safety Relief Valve Report

Tag No.	SV-1302	Equipment No.	N/S	Report No.	SYS23320-4753
Customer	LINDE	Location	N/S	Date	21-Oct-23

PSV Type	<input checked="" type="checkbox"/> SPRING LOADED	<input type="checkbox"/> PILOT OPERATED	<input type="checkbox"/>
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Valve Data				Test Standard	
Manufacturer	LESER	Set Pressure	15.00	ASME	<input checked="" type="checkbox"/> Sec.VIII <input type="checkbox"/> Sec.I
Model	4412.4812	New Set Pres.	N/A	Classification	<input type="checkbox"/> Non-Code
Serial No.	06.38887.11/1	CDTP	N/S	Test standard	<input checked="" type="checkbox"/> API 527 <input type="checkbox"/> API2000
Inlet size	1" 300# RF	T/C Factor	N/S		<input type="checkbox"/> MFG <input type="checkbox"/> Customer
Outlet size	2" 150# RF	Back Pressure	1.00	Seat Type	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Soft Seat
Orifice	N/S	Capacity	N/S	Test Medium	<input checked="" type="checkbox"/> N2/Air <input type="checkbox"/> Water

Valve Disassembly and Inspection								Maintenance Performed				
Part Name	GOOD	RUST	SCRATCH	WORN	CRACK	BROKEN	DAMAGED	REUSED	CLEAN	LAPPING	MACHINE	REPLACED(P/N)
Flange In/Out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Body/Bonnet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nozzle	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Guide/Holder	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spindle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spring/Washer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bellow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Disc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gaskets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pilot Valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Spring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Seal Kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Tube fitting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Note:												

Disc (mm)	Before	9.0 mm.	After	9.0 mm.
Nozzle (mm)	Before	13.0 mm.	After	13.0 mm.
Adjusting Bolts (mm)	Before	18.0 mm.	After	21.0 mm.
Failure Cause	<input checked="" type="checkbox"/> Seat surface damaged <input checked="" type="checkbox"/> Particle/Dirty <input type="checkbox"/> Set Point out of criteria <input type="checkbox"/> Valve seized, Not Pop action <input type="checkbox"/> Valve Passing			

Testing Requirement			Pre-test		Final Test	
Set Pressure	15.00	<input type="checkbox"/> Psig	14.44	Result: <input type="checkbox"/> Pass	15.23	Result: <input checked="" type="checkbox"/> Pass
Criteria	<input checked="" type="checkbox"/> ±3% <input type="checkbox"/> ±2psi	<input checked="" type="checkbox"/> Barg		<input checked="" type="checkbox"/> Fail		<input type="checkbox"/> Fail
Min	14.55	<input type="checkbox"/> kgf/cm2		<input type="checkbox"/> N/a		<input type="checkbox"/> N/a
Max	15.45	<input type="checkbox"/> MPa				
Leakage pressure test	13.50	<input checked="" type="checkbox"/> Bpm	13.77	Result: <input type="checkbox"/> Pass	13.56	Result: <input checked="" type="checkbox"/> Pass
Leak rate acceptance	20	<input type="checkbox"/> cc/min	EXCESSIVE LEAK	<input checked="" type="checkbox"/> Fail	0	<input type="checkbox"/> Fail
				<input type="checkbox"/> N/a		<input type="checkbox"/> N/a
Body/Bellow test at:			<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> N/a		<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/a	
Nozzle ring set			N/A	Nothes	N/A	Nothes
Guide ring set			N/A	Nothes	N/A	Nothes

Test Gauge Data	Range	1000 PSI	Certificate no.	OSI23-ITC-082
Scope of Work	<input checked="" type="checkbox"/> Remove <input checked="" type="checkbox"/> Pre-test <input checked="" type="checkbox"/> Overhaul <input checked="" type="checkbox"/> Final test <input checked="" type="checkbox"/> Install <input type="checkbox"/> Re-Adjustment			

Tested by		Date	22-Oct-23	Date	22-Oct-23	Date	22-Oct-23
Systech Service and Supply			SYSTECH SERVICE AND SUPPLY CO., LTD.			Customer/Inspector	

Inspection Photo Report

Tag No. : SV-1302

Pre-Pressure Test



Testing Appearance



Initial Relief Pressure



Initial Leakage Pressure Test



Initial Leakage Result

Inspection Photo Report

Tag No. : SV-1302

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-1302

Parts Replacement



Old Parts



New Parts replacement

Valve Finished



Valve Figure / Apperance



ReferenceTag Number

Safety Relief Valve Report

Tag No.	SV-1303	Equipment No.	N/S	Report No.	SYS23320-4754
Customer	LINDE	Location	N/S	Date	24-Oct-23

PSV Type ☒ SPRING LOADED ☐ PILOT OPERATED ☐ BELLOW TYPE

Valve Data

Manufacturer	LESER	Set Pressure	4.00	<input type="checkbox"/> PSIG
Model	5262.1432	New Set Pres.	N/A	<input checked="" type="checkbox"/> BARG
Serial No.	70879-0010	CDTP	N/S	<input type="checkbox"/> kgf/cm2
Inlet size	1-1/2" 300# RF	T/C Factor	N/S	<input type="checkbox"/> MPa
Outlet size	3" 150# RF	Back Pressure	1.00	
Orifice	N/S	Capacity	N/S	

Test Standard

ASME	<input checked="" type="checkbox"/> Sec.VIII <input type="checkbox"/> Sec.I
Classification	<input type="checkbox"/> Non-Code
Test standard	<input checked="" type="checkbox"/> API 527 <input type="checkbox"/> API2000
	<input type="checkbox"/> MFG <input type="checkbox"/> Customer
Seat Type	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Soft Seat
Test Medium	<input checked="" type="checkbox"/> N2/Air <input type="checkbox"/> Water

Valve Disassembly and Inspection

Part Name	GOOD	RUST	SCRATCH	WORN	CRACK	BROKEN	DAMAGED
Flange In/Out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Body/Bonnet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nozzle	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Guide/Holder	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spindle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spring/Washer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bellow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Disc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gaskets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pilot Valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Spring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Seal Kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Tube fitting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Maintenance Performed

REUSED	CLEAN	LAPPING	MACHINE	REPLACED(P/N)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Note: Repair Disc by Machine and Lapping.

Repair Nozzle by Machine and Lapping.

Disc
(mm)



Before 22.8 mm. After 22.7 mm.

Nozzle
(mm)



Before 3.0 mm. After 2.9 mm.

Adjusting Bolts
(mm)



Before 32.0 mm. After 30.5 mm.

Failure Cause

- ☒ Seat surface damaged
☒ Particle/Dirty

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

- ☐ Valve Passing

☐

Testing Requirement

Set Pressure	4.00	<input type="checkbox"/> Psig
Criteria	<input type="checkbox"/> ±3% <input checked="" type="checkbox"/> ±2psi	<input checked="" type="checkbox"/> Barg
Min	3.86	<input type="checkbox"/> kgf/cm2
Max	4.14	<input type="checkbox"/> MPa
Leakage pressure test	3.60	<input checked="" type="checkbox"/> Bpm
Leak rate acceptance	20	<input type="checkbox"/> cc/min

Body/Bellow test at:

Nozzle ring set
Guide ring set

Pre-test

4.04	Result:	<input checked="" type="checkbox"/> Pass
		<input type="checkbox"/> Fail
		<input type="checkbox"/> N/a
2.37	Result:	<input type="checkbox"/> Pass
EXCESSIVE LEAK		<input checked="" type="checkbox"/> Fail
		<input type="checkbox"/> N/a
<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> N/a		
-5	Nothes	
N/A	Nothes	

Final Test

4.09	Result:	<input checked="" type="checkbox"/> Pass
		<input type="checkbox"/> Fail
		<input type="checkbox"/> N/a
3.80	Result:	<input checked="" type="checkbox"/> Pass
0		<input type="checkbox"/> Fail
		<input type="checkbox"/> N/a
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/a		
-5	Nothes	
N/A	Nothes	

Test Gauge Data

Scope of Work

Range 1000 PSI

Certificate no. OSI23-ITC-082

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

Tested by

Date 25-Oct-23

Date 25-Oct-23

Systech Service and Supply



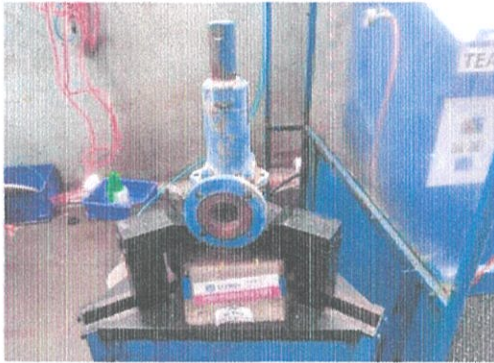
Date

Customer/Inspector

Inspection Photo Report

Tag No. : SV-1303

Pre-Pressure Test



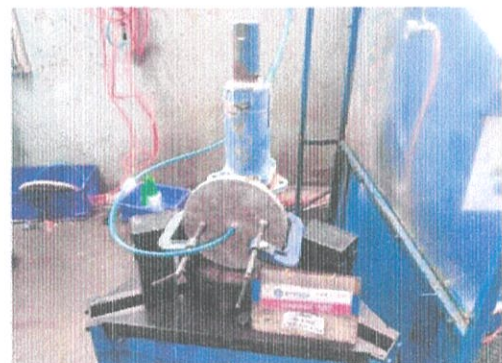
Testing Appearance



Initial Relief Pressure



Initial Leakage Pressure Test



Initial Leakage Result

Inspection Photo Report

Tag No. : SV-1303

Valve Disassembly/Assembly



Valve Dis-Assembly



Valve Assembly

Parts Repaired and Replaced



Disc (Before Machine & Lapping)



Disc (After Machine & Lapping)



Nozzle (Before Machine & Lapping)



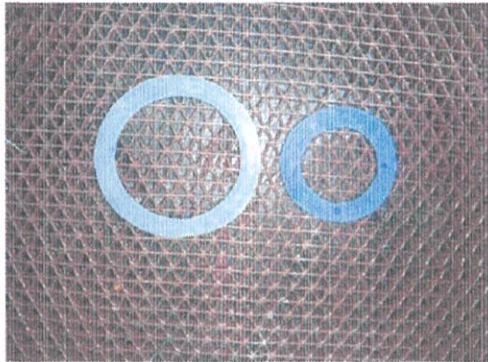
Nozzle (After Machine & Lapping)



Inspection Photo Report

Tag No. : SV-1303

Parts Replacement



Old Parts



New Parts replacement

Valve Finished



Valve Figure / Apperance



ReferenceTag Number

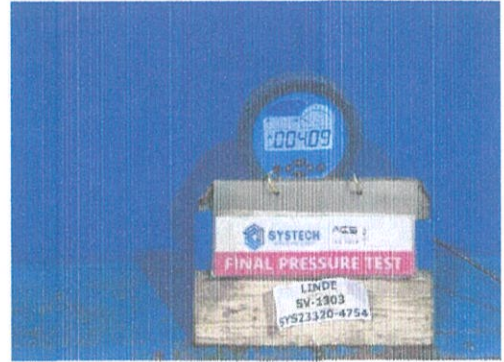
Inspection Photo Report

Tag No. : SV-1303

Final-Pressure Test



Testing Appearance



Final Release Pressure



Final Leakage Pressure Test



Final Leakage Result

Safety Relief Valve Report

Tag No.	SV-1304	Equipment No.	N/S	Report No.	SYS23320-4755
Customer	LINDE	Location	N/S	Date	24-Oct-23

PSV Type ☒ SPRING LOADED ☐ PILOT OPERATED ☐ BELLOW TYPE

Valve Data

Manufacturer	LESER	Set Pressure	7.00	<input type="checkbox"/> PSIG
Model	4412.4813	New Set Pres.	N/A	<input checked="" type="checkbox"/> BARG
Serial No.	170879-0011	CDTP	N/S	<input type="checkbox"/> kgf/cm2
Inlet size	1" 300# RF	T/C Factor	N/S	<input type="checkbox"/> MPa
Outlet size	2" 150# RF	Back Pressure	N/S	
Orifice	N/S	Capacity	N/S	

Test Standard

ASME	<input checked="" type="checkbox"/> Sec.VIII <input type="checkbox"/> Sec.I
Classification	<input type="checkbox"/> Non-Code
Test standard	<input checked="" type="checkbox"/> API 527 <input type="checkbox"/> API2000
	<input type="checkbox"/> MFG <input type="checkbox"/> Customer
Seat Type	<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Soft Seat
Test Medium	<input checked="" type="checkbox"/> N2/Air <input type="checkbox"/> Water

Valve Disassembly and Inspection

Part Name	GOOD	RUST	SCRATCH	WORN	CRACK	BROKEN	DAMAGED
Flange In/Out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Body/Bonnet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nozzle	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Guide/Holder	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spindle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spring/Washer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bellow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Disc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gaskets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Maintenance Performed

REUSED	CLEAN	LAPPING	MACHINE	REPLACED(P/N)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Pilot Valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Spring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Pilot Seal Kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
Tube fitting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Note: Repair Disc by Machine and Lapping.

Disc (mm)	Before	9.2 mm.	After	9.1 mm.
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Nozzle (mm)	Before	0.5 mm.	After	0.5 mm.
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Adjusting Bolts (mm)	Before	19.0 mm.	After	18.0 mm.
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Failure Cause ☒ Seat surface damaged
☒ Particle/Dirty

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

☐ Valve Passing
☐

Testing Requirement	
Set Pressure	7.00
Criteria	<input checked="" type="checkbox"/> $\pm 3\%$ <input type="checkbox"/> $\pm 2\text{psi}$
Min	6.79
Max	7.21
Leakage pressure test	6.30
Leak rate acceptance	20
	<input checked="" type="checkbox"/> Bpm <input type="checkbox"/> cc/min
Body/Bellow test at:	
Nozzle ring set	
Guide ring set	

Pre-test	
7.10	Result: <input checked="" type="checkbox"/> Pass
	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
6.26	Result: <input type="checkbox"/> Pass
EXCESSIVE LEAK	<input checked="" type="checkbox"/> Fail
	<input type="checkbox"/> N/a
<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> N/a	Nothes
N/A	Nothes
N/A	Nothes

Final Test	
7.07	Result: <input checked="" type="checkbox"/> Pass
	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
6.42	Result: <input checked="" type="checkbox"/> Pass
0	<input type="checkbox"/> Fail
	<input type="checkbox"/> N/a
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/a	Nothes
N/A	Nothes
N/A	Nothes

Test Gauge Data
Scope of Work

Range 1000 PSI

Certificate no. OSI23-ITC-082

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

Tested by		Date	25-Oct-23	Date	25-Oct-23	Date	25-Oct-23

Systech Service and Supply



Customer/Inspector

Inspection Photo Report

Tag No. : SV-1304

Pre-Pressure Test



Testing Appearance



Initial Relief Pressure



Initial Leakage Pressure Test



Initial Leakage Result

Inspection Photo Report

Tag No. : SV-1304

Valve Disassembly/Assembly



Valve Dis-Assembly

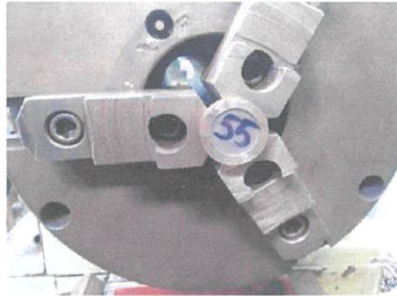


Valve Assembly

Parts Repaired and Replaced



Disc (Before Machine & Lapping)



Disc (After Machine & Lapping)



Nozzle (Before Lapping)



Nozzle (After Lapping)

Inspection Photo Report

Tag No. : SV-1304

Parts Replacement



Old Parts



New Parts replacement

Valve Finished



Valve Figure / Apperance



ReferenceTag Number

Inspection Photo Report

Tag No. : SV-1304

Final-Pressure Test



Testing Appearance



Final Relief Pressure



Final Leakage Pressure Test



Final Leakage Result