

NO. 序号	ITEM NO. 设备位号	EQUIPMENT NAME 设备名称	EQUIPMENT DESCRIPTION 设备描述	MATERIAL 材质	MEDIUM 介质	VISC. (cP) 粘度	DENS. 密度 (kg/m³)	P&ID NO. P&ID图号	CONNECTION 连接			OP. CONDITION 操作条件		DES. CONDITION 设计条件		SUPPLY INFORMATION 供货信息		DATA SHEET OR DWG. NO. 数据表或图纸 文件号	ITEM NO. 物料编码	REMARKS 备注
									形式	标准	尺寸	PRESS.压力	TEMP.温度	PRESS.压力	TEMP.温度	SUP'R 厂家名称	MODEL NO. 型号			
									STYLE	STANDARD	SIZE	(MPa G)	(°C)	(MPa G)	(°C)					
1	TK1101	MAIN TANK	I.D.2200*2730 Integral jacket Insulation jacket	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	N/A	N/A	N/A	-0.09~0.14	20~126	-0.1/0.2	150	Morimatsu	N/A	N/A	N/A	
2	TK1301	PREMIX TANK	I.D.1200*1700 Half pipe jacket Insulation jacket	SS316L	FM/CIP/SIP	1~12000	1000	PP22-0133-T 000005	N/A	N/A	N/A	-0.09~0.14	20~126	-0.1/0.2	150	Morimatsu	N/A	N/A	N/A	
3	TK1201	SUPPORT TANK	I.D.1900*2480 Integral jacket Insulation jacket	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	N/A	N/A	N/A	-0.09~0.14	20~126	-0.1/0.2	150	Morimatsu	N/A	N/A	N/A	
4	FV1126	L-Bottom Valve	Double Position feedback	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	Tri-clamp	ISO	2S	-0.09~0.14	20~126	-0.1/0.2	150	TOSTE	316L-(EP)2P-C-20- DAC2L14RJCOF	PP22-0133-T-000534	N/A	
5	FV1127	L-Bottom Valve	Double Position feedback	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	Tri-clamp	ISO	3S	-0.09~0.14	20~126	-0.1/0.2	150	TOSTE	316L-(EP)2P-C-30- DAC2L14RJCOF	PP22-0133-T-000535	N/A	
6	FV1226	L-Bottom Valve	Double Position feedback	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	Tri-clamp	ISO	2S	-0.09~0.14	20~126	-0.1/0.2	150	TOSTE	316L-(EP)2P-C-20- DAC2L14RJCOF	PP22-0133-T-000534	N/A	
7	FV1227	L-Bottom Valve	Double Position feedback	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	Tri-clamp	ISO	3S	-0.09~0.14	20~126	-0.1/0.2	150	TOSTE	316L-(EP)2P-C-30- DAC2L14RJCOF	PP22-0133-T-000535	N/A	
8	FV1326	L-Bottom Valve	Double Position feedback	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	Tri-clamp	ISO	2S	-0.09~0.14	20~126	-0.1/0.2	150	TOSTE	316L-(EP)2P-C-20- DAC2L14RJCOF	PP22-0133-T-000534	N/A	
9	FV1327	L-Bottom Valve	Double Position feedback	SS316L	FM/CIP/SIP	1~12000	1000	PP22-0133-T 000005	Tri-clamp	ISO	3S	-0.09~0.14	20~126	-0.1/0.2	150	TOSTE	316L-(EP)2P-C-30- DAC2L14RJCOF	PP22-0133-T-000535	N/A	
10	SB1101	Spray Ball	Pressure:3~8bar Flow:5.5~9m3/h	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	Tread	Rp	1	-0.09~0.14	20~126	-0.1/0.2	150	ALFA LAVAL	TJ20G	PP22-0133-T-000342	N/A	
11	SB1102	Spray Ball	Pressure:3~8bar Flow:5.5~9m3/h	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	Tread	Rp	1	-0.09~0.14	20~126	-0.1/0.2	150	ALFA LAVAL	TJ20G	PP22-0133-T-000342	N/A	
12	SB1103	Spray Ball	Pressure:3~8bar Flow:5.5~9m3/h	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	Tread	Rp	1	-0.09~0.14	20~126	-0.1/0.2	150	ALFA LAVAL	TJ20G	PP22-0133-T-000342	N/A	
13	SB1104	Spray Ball	Pressure:3~8bar Flow:5.5~9m3/h	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	Tread	Rp	1	-0.09~0.14	20~126	-0.1/0.2	150	ALFA LAVAL	TJ20G	PP22-0133-T-000342	N/A	
14	SB1105	Spray Ball	Pressure:1~3bar Flow:1.8~3.5m3/h	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	clip on	N/A	19.2	-0.09~0.14	20~126	-0.1/0.2	150	ALFA LAVAL	SaniMicro	PP22-0133-T-000346	N/A	
15	SB1201	Spray Ball	Pressure:3~8bar Flow:5.5~9m3/h	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	Tread	Rp	1	-0.09~0.14	20~126	-0.1/0.2	150	ALFA LAVAL	TJ20G	PP22-0133-T-000342	N/A	
16	SB1202	Spray Ball	Pressure:3~8bar Flow:5.5~9m3/h	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	Tread	Rp	1	-0.09~0.14	20~126	-0.1/0.2	150	ALFA LAVAL	TJ20G	PP22-0133-T-000342	N/A	
17	SB1203	Spray Ball	Pressure:3~8bar Flow:5.5~9m3/h	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	Tread	Rp	1	-0.09~0.14	20~126	-0.1/0.2	150	ALFA LAVAL	TJ20G	PP22-0133-T-000342	N/A	
18	SB1204	Spray Ball	Pressure:3~8bar Flow:5.5~9m3/h	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	Tread	Rp	1	-0.09~0.14	20~126	-0.1/0.2	150	ALFA LAVAL	TJ20G	PP22-0133-T-000342	N/A	
19	SB1205	Spray Ball	Pressure:1~3bar Flow:1.8~3.5m3/h	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	clip on	N/A	19.2	-0.09~0.14	20~126	-0.1/0.2	150	ALFA LAVAL	SaniMicro	PP22-0133-T-000346	N/A	
20	SB1301	Spray Ball	Pressure:1~3bar Flow:4.5~6.9m3/h	SS316L	FM/CIP/SIP	1~12000	1000	PP22-0133-T 000005	clip on	N/A	25.7	-0.09~0.14	20~126	-0.1/0.2	150	ALFA LAVAL	SaniMiget	PP22-0133-T-000430	N/A	
21	SB1302	Spray Ball	Pressure:1~3bar Flow:4.5~6.9m3/h	SS316L	FM/CIP/SIP	1~12000	1000	PP22-0133-T 000005	clip on	N/A	25.7	-0.09~0.14	20~126	-0.1/0.2	150	ALFA LAVAL	SaniMiget	PP22-0133-T-000430	N/A	
22	SB1305	Spray Ball	Pressure:1~3bar Flow:1.8~3.5m3/h	SS316L	FM/CIP/SIP	1~12000	1000	PP22-0133-T 000005	clip on	N/A	19.2	-0.09~0.14	20~126	-0.1/0.2	150	ALFA LAVAL	SaniMicro	PP22-0133-T-000346	N/A	
23	FV1387	Sidewall Cleaning Valve	Pressure:-1~7bar	SS316L	FM/CIP/SIP	1~12000	1000	PP22-0133-T 000005	Welding	ASME BPE	3/4S	-0.09~0.14	20~126	-0.1/0.2	150	GEMU	99112524 P600B 02-01.NA 411537 B3QH	PP22-0133-T-000405	N/A	
24	FV1388	Sidewall Cleaning Valve	Pressure:-1~7bar	SS316L	FM/CIP/SIP	1~12000	1000	PP22-0133-T 000005	Welding	ASME BPE	3/4S	-0.09~0.14	20~126	-0.1/0.2	150	GEMU	99112524 P600B 02-01.NA 411537 B3QH	PP22-0133-T-000405	N/A	
25	FV1287	Sidewall Cleaning Valve	Pressure:-1~7bar	SS316L	FM/CIP/SIP	1~12000	1000	PP22-0133-T 000005	Welding	ASME BPE	3/4S	-0.09~0.14	20~126	-0.1/0.2	150	GEMU	99112524 P600B 02-01.NA 411537 B3QH	PP22-0133-T-000405	N/A	
26	FV1288	Sidewall Cleaning Valve	Pressure:-1~7bar	SS316L	FM/CIP/SIP	1~12000	1000	PP22-0133-T 000005	Welding	ASME BPE	3/4S	-0.09~0.14	20~126	-0.1/0.2	150	GEMU	99112524 P600B 02-01.NA 411537 B3QH	PP22-0133-T-000405	N/A	
27	FV1187	Sidewall Cleaning Valve	Pressure:-1~7bar	SS316L	FM/CIP/SIP	1~12000	1000	PP22-0133-T 000005	Welding	ASME BPE	3/4S	-0.09~0.14	20~126	-0.1/0.2	150	GEMU	99112524 P600B 02-01.NA 411537 B3QH	PP22-0133-T-000405	N/A	
28	FV1188	Sidewall Cleaning Valve	Pressure:-1~7bar	SS316L	FM/CIP/SIP	1~12000	1000	PP22-0133-T 000005	Welding	ASME BPE	3/4S	-0.09~0.14	20~126	-0.1/0.2	150	GEMU	99112524 P600B 02-01.NA 411537 B3QH	PP22-0133-T-000405	N/A	
29	AG1301	Agitator	5.5KW/4P,10~85rpm	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	PAD	N/A	O.D.405	-0.09~0.14	20~126	-0.1/0.2	150	Nagamori	N/A	N/A	N/A	
30	AG1201	Agitator	18.5KW/4P,5~30rpm	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	PAD	N/A	O.D.655	-0.09~0.14	20~126	-0.1/0.2	150	Nagamori	N/A	N/A	N/A	
31	AG1101A	Agitator	BLADES:30KW/4P 10~65rpm	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	PAD	N/A	O.D.700	-0.09~0.14	20~126	-0.1/0.2	150	Nagamori	N/A	N/A	N/A	
32	AG1101B	Agitator	ANCHOR:22KW/4P 2~21rpm	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	PAD	N/A	O.D.700	-0.09~0.14	20~126	-0.1/0.2	150	Nagamori	N/A	N/A	N/A	
33	HO1301	Homogenizer	37KW,380V/50HZ,3000rpm	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T 000005	PAD	N/A	O.D.365	-0.09~0.14	20~126	-0.1/0.2	150	METVOX	BT180R	PP22-0133-T-000577	N/A	

34	HO1201	Homogenizer	75KW,380V/50HZ,2050rpm	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T-000005	PAD	N/A	O.D.500	-0.09~0.14	20~126	-0.1/0.2	150	METVOX	BT280R	PP22-0133-T-000578	N/A	
35	HO1101	Homogenizer	110KW,380V/50HZ,1800rpm	SS316L	FM/CIP/SIP	1	1000	PP22-0133-T-000005	PAD	N/A	O.D.500	-0.09~0.14	20~126	-0.1/0.2	150	METVOX	MF850S2/290	PP22-0133-T-000579	N/A	
36	ATU1101	Filter Reducing Unit	Air Filtrate Reducing	Cast Zinc Alloy	IA	2.68/8.9	0.019	PP22-0133-T-000005	Thread	G Thread	1"	0.6	25	1.6	60	FESTO	HE-D-MAXI(with FRB-D-MAXI+U-3/8)+HEE-D-MAXI-24 (with one MSSD-EB)(with FRB-D-MAXI+U-3/8)+LFR-1/2-D-5M-MAXI-A-MPA (with LRVS-D-MAXI)	PP22-0133-T-000308	00VK0000452	
37	ATU1201	Filter Reducing Unit	Air Filtrate Reducing	Cast Zinc Alloy	IA	2.68/8.9	0.019	PP22-0133-T-000005	Thread	G Thread	1"	0.6	25	1.6	60	FESTO	HE-D-MAXI(with FRB-D-MAXI+U-3/8)+HEE-D-MAXI-24 (with one MSSD-EB)(with FRB-D-MAXI+U-3/8)+LFR-1/2-D-5M-MAXI-A-MPA (with LRVS-D-MAXI)	PP22-0133-T-000308	00VK0000452	
38	ATU1301	Filter Reducing Unit	Air Filtrate Reducing	Cast Zinc Alloy	IA	2.68/8.9	0.019	PP22-0133-T-000005	Thread	G Thread	1"	0.6	25	1.6	60	FESTO	HE-D-MAXI(with FRB-D-MAXI+U-3/8)+HEE-D-MAXI-24 (with one MSSD-EB)(with FRB-D-MAXI+U-3/8)+LFR-1/2-D-5M-MAXI-A-MPA (with LRVS-D-MAXI)	PP22-0133-T-000308	00VK0000452	
39	F1101	Filter-Housing	Spec: 20"	316L	CA	0.018	1.293	PP22-0133-T-000005	Tri-clamp	ASME BPE	1.5"	0.1~0.3	20~90	0.7	140	PALL	A01MK2G7BP23ND1H4	PP22-0133-T-000245	009AB0000266	
40	F1101	Filter Cartridge	Spec: 20" Pore size:0.2um	PTFE	CA	0.018	1.293	PP22-0133-T-000005	N/A	N/A	20"	N/A	N/A	0.6	142	PALL	AB2PFR7PVH4	PP22-0133-T-000248	009AC0000023	
41	F1201	Filter-Housing	Spec: 20"	316L	CA	0.018	1.293	PP22-0133-T-000005	Tri-clamp	ASME BPE	1.5"	0.1~0.3	20~90	0.7	140	PALL	A01MK2G7BP23HD1H4	PP22-0133-T-000245	009AB0000266	
42	F1201	Filter Cartridge	Spec: 20" Pore size:0.2um	PTFE	CA	0.018	1.293	PP22-0133-T-000005	N/A	N/A	20"	N/A	N/A	0.6	142	PALL	AB2PFR7PVH4	PP22-0133-T-000248	009AC0000023	
43	F1301	Filter-Housing	Spec: 5"	316L	CA	0.018	1.293	PP22-0133-T-000005	Tri-clamp	ASME BPE	1.5"	0.1~0.3	20~90	0.7	140	PALL	A01MK05G7BP23D1D1H4	PP22-0133-T-000243	009AB0000252	
44	F1301	Filter Cartridge	Spec: 5" Pore size:0.2um	PTFE	CA	0.018	1.293	PP22-0133-T-000005	N/A	N/A	5"	N/A	N/A	0.6	142	PALL	AB05PFR2PVH4	PP22-0133-T-000246	009AC0000021	
45	FV1101	Pneumatic Diaphragm Valve	Failure Position:NO Double Feedback	1.4435 casting	Exhaust gas	0.018	1.293	PP22-0133-T-000005	Butt Weld	ASME BPE	1.5"	0.1~0.3	20~90	0.6	150	GEMU	687 40D 59 C3 5M 2 H/N 1507(S1=S2=10) + 1232000ZA103051110304+0324 2M 1474 41C1010210	PP22-0133-T-000044	00VA0002448	
46	FV1102	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CCA	0.019	2.68/8.9	PP22-0133-T-000005	Butt Weld	ASME BPE	2"	0.14	40	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
47	FV1103	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	DR	~1	~1000	PP22-0133-T-000005	Butt Weld	ASME BPE	3/4"	ATM	20~95	2	180	Modentic	V-A58EB/MDNSII-63/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000560	00VC0005160	
48	FV1104	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CCA	0.019	2.68/8.9	PP22-0133-T-000005	Butt Weld	ASME BPE	1.5"	0.14	40	1	135	NEUMO	360257582/2	PP22-0133-T-000027	00VB0002070	
49	FV1105	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Powder	0.021	1.09	PP22-0133-T-000005	Butt Weld	ASME BPE	2"	0.01	~99	2	180	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
50	FV1106	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Liquid	0.021	1.09	PP22-0133-T-000005	Butt Weld	ASME BPE	2"	0.01	~99	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
51	FV1107	Pneumatic Diaphragm Valve	Failure Position:NC Double Feedback	1.4435 casting	Powder	0.021	1.09	PP22-0133-T-000005	Butt Weld	ASME BPE	3/4"	0.01	~99	0.6	150	GEMU	625 20D 59 C3 54 1 1/N 1507(S1=S2=10)+ 1232000ZA103051110304+0324 2M1474 41C1010210	PP22-0133-T-000042	00VA0002673	
52	FV1112	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T-000005	Butt Weld	ASME BPE	6"	0.2~0.8	AMB	1	135	NEUMO	300264582/2	PP22-0133-T-000032	00VB0002075	
53	FV1113	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T-000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
54	FV1114	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T-000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
55	FV1115	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T-000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
56	FV1117	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T-000005	Butt Weld	ASME BPE	2.5"	ATM	20~95	1	135	NEUMO	360259582/2	PP22-0133-T-000029	00VB0002072	
57	FV1119	Pneumatic Diaphragm Valve	Failure Position:NC Double Feedback	1.4435 casting	CIPS	1	1000	PP22-0133-T-000005	Butt Weld	ASME BPE	3/4"	0.2~0.8	60~80	0.6	150	GEMU	625 20D 59 C3 54 1 1/N 1507(S1=S2=10)+ 1232000ZA103051110304+0324 2M1474 41C1010210	PP22-0133-T-000042	00VA0002673	
58	FV1120	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T-000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
59	FV1121	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Clean Steam	0.01~0.1	1.672	PP22-0133-T-000005	Butt Weld	ASME BPE	2"	0.14	121	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
60	FV1123	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T-000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
61	FV1124	Pneumatic Ball Valve	Failure Position:NO Double Feedback	CF3M	Exhaust gas	0.021	1.09	PP22-0133-T-000005	Butt Weld	ASME BPE	1.5"	0.01	~99	2	180	Modentic	V-A58EB/MDNSII-92/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000562	00VC0005342	

62	FV1128	Pneumatic Diaphragm Valve	Failure Position:NC Double Feedback	1.4435 casting	DR	1	1000	PP22-0133-T 000005	Tri-clamp	ASME BPE	1/2"	ATM	20~95	0.6	150	GEMU	625 15D 59 C3 54 1 1/N 1507 (S1=S2=10)+1232000ZA1030511 10304+0324 2M1474 41C1010210	PP22-0133-T-000041	00VA0002444	
63	FV1129	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	6"	0.2~0.8	AMB	1	135	NEUMO	300264582/2	PP22-0133-T-000032	00VB0002075	
64	FV1131	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	6"	0.2~0.8	AMB	1	135	NEUMO	300264582/2	PP22-0133-T-000032	00VB0002075	
65	FV1132	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	6"	0.2~0.8	AMB	1	135	NEUMO	300264582/2	PP22-0133-T-000032	00VB0002075	
66	FV1133	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
67	FV1134	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
68	FV1136	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	0.2~0.8	AMB	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
69	FV1137	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	4"	0.2~0.8	60~80	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
70	FV1139	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2.5"	ATM	20~95	1	135	NEUMO	360259582/2	PP22-0133-T-000029	00VB0002072	
71	FV1140	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	ATM	20~95	2	180	Modentic	V-A58EB/MDNSII-75/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000561	00VC0005338	
72	FV1141	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1.5"	0.2~0.8	60~80	1	135	NEUMO	360257582/2	PP22-0133-T-000027	00VB0002070	
73	FV1142	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Exhaust gas	0.021	1.09	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.01	~99	1	130	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
74	FV1143	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1.5"	0.2~0.8	60~80	1	135	NEUMO	360257582/2	PP22-0133-T-000027	00VB0002070	
75	FV1144	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
76	FV1145	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
77	FV1146	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.8	60~80	1	130	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
78	FV1147	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
79	FV1148	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
80	FV1149	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
81	FV1170	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	ATM	20~95	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
82	FV1171	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	ATM	20~95	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
83	FV1172	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	ATM	20~95	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
84	FV1173	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	ATM	20~95	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
85	FV1174	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	ATM	20~95	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
86	FV1175	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	ATM	20~95	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
87	FV1176	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	ATM	20~95	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
88	FV1177	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	ATM	20~95	2	180	Modentic	V-A58EB/MDNSII-75/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000561	00VC0005338	
89	FV1178	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
90	FV1179	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
91	FV1180	Mixproof Valve	Top:2" Bottom:3"	316L	Raw material	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	2"-3"	0.2~0.8	AMB	1	150	NEUMO	30107.1400.03.2729.32	PP22-0133-T-000334	XP2231492AT0009	
92	FV1181	Mixproof Valve	Top:2" Bottom:3"	316L	Raw material	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	2"-3"	0.2~0.8	AMB	1	150	NEUMO	30107.1400.03.2729.32	PP22-0133-T-000334	XP2231492AT0009	
93	FV1182	Mixproof Valve	Top:1.5" Bottom:3"	316L	Raw material	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	1.5"-3"	0.2~0.8	AMB	1	150	NEUMO	30107.1400.03.2629.32	PP22-0133-T-000333	XP2231492AT0008	
94	FV1183	Mixproof Valve	Top:6" Bottom:4"	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	6"-4"	0.2~0.8	AMB	1	150	NEUMO	30107.1400.03.3230.32	PP22-0133-T-000338	XP2231492AT0013	
95	FV1201	Pneumatic Diaphragm Valve	Failure Position:NO Double Feedback	1.4435 casting	Exhaust gas	0.018	1.293	PP22-0133-T 000005	Butt Weld	ASME BPE	1.5"	0.1~0.3	20~95	0.6	150	GEMU	687 40D 59 C3 5M 2 H/N 1507(S1=S2=10) + 1232000ZA103051110304+0324 2M 1474 41C1010210	PP22-0133-T-000044	00VA0002448	
96	FV1202	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CCA	0.019	2.68/8.9	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.14	40	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	

97	FV1203	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3/4"	ATM	20~95	2	180	Modentic	V-A58EB/MDNSII-63/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000560	00VC0005160	
98	FV1204	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CCA	0.019	2.68/8.9	PP22-0133-T 000005	Butt Weld	ASME BPE	1.5"	0.14	40	1	135	NEUMO	360257582/2	PP22-0133-T-000027	00VB0002070	
99	FV1205	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Powder	0.021	1.09	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.01	~99	2	180	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
100	FV1206	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Liquid	0.021	1.09	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.01	~99	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
101	FV1207	Pneumatic Diaphragm Valve	Failure Position:NC Double Feedback	1.4435 casting	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1/2"	ATM	20~95	0.6	150	GEMU	625 15D 59 C3 54 1 1/N 1507 (S1=S2=10)+1232000ZA1030511 10304+0324 2M1474 41C1010210	PP22-0133-T-000041	00VA0002444	
102	FV1212	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
103	FV1213	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
104	FV1214	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
105	FV1215	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
106	FV1217	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2.5"	ATM	20~95	1	135	NEUMO	360259582/2	PP22-0133-T-000029	00VB0002072	
107	FV1219	Pneumatic Diaphragm Valve	Failure Position:NC Double Feedback	1.4435 casting	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3/4"	0.2~0.8	60~80	0.6	150	GEMU	625 20D 59 C3 54 1 1/N 1507(S1=S2=10)+ 1232000ZA103051110304+0324 2M1474 41C1010210	PP22-0133-T-000042	00VA0002673	
108	FV1220	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
109	FV1221	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Clean Steam	0.01~0.1	1.672	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.14	121	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
110	FV1223	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
111	FV1224	Pneumatic Ball Valve	Failure Position:NO Double Feedback	CF3M	Exhaust gas	0.021	1.09	PP22-0133-T 000005	Butt Weld	ASME BPE	1.5"	0.01	~99	2	180	Modentic	V-A58EB/MDNSII-92/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000562	00VC0005342	
112	FV1228	Pneumatic Diaphragm Valve	Failure Position:NC Double Feedback	1.4435 casting	DR	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1/2"	ATM	20~95	0.6	150	GEMU	625 15D 59 C3 54 1 1/N 1507 (S1=S2=10)+1232000ZA1030511 10304+0324 2M1474 41C1010210	PP22-0133-T-000041	00VA0002444	
113	FV1229	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
114	FV1231	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
115	FV1232	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
116	FV1233	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
117	FV1234	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
118	FV1236	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	0.2~0.8	AMB	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
119	FV1237	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	0.2~0.8	AMB	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
120	FV1238	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	0.2~0.8	AMB	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
121	FV1239	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2.5"	ATM	20~95	1	135	NEUMO	360259582/2	PP22-0133-T-000029	00VB0002072	
122	FV1240	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	ATM	20~95	2	180	Modentic	V-A58EB/MDNSII-75/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000561	00VC0005338	
123	FV1241	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1.5"	0.2~0.8	60~80	1	135	NEUMO	360257582/2	PP22-0133-T-000027	00VB0002070	
124	FV1242	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Exhaust gas	0.021	1.09	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.01	~99	1	130	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
125	FV1243	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1.5"	0.2~0.8	60~80	1	135	NEUMO	360257582/2	PP22-0133-T-000027	00VB0002070	
126	FV1244	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
127	FV1245	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
128	FV1246	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.8	60~80	1	130	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
129	FV1247	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	

130	FV1248	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
131	FV1270	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T000005	Butt Weld	ASME BPE	3"	ATM	20~95	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
132	FV1271	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T000005	Butt Weld	ASME BPE	3"	ATM	20~95	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
133	FV1272	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T000005	Butt Weld	ASME BPE	3"	ATM	20~95	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
134	FV1273	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T000005	Butt Weld	ASME BPE	3"	ATM	20~95	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
135	FV1274	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T000005	Butt Weld	ASME BPE	3"	ATM	20~95	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
136	FV1275	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T000005	Butt Weld	ASME BPE	3"	ATM	20~95	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
137	FV1280	Mixproof Valve	Top:2" Bottom:3"	316L	Raw material	TBD	TBD	PP22-0133-T000005	Butt Weld	ASME BPE	2"-3"	0.2~0.8	AMB	1	150	NEUMO	30107.1400.03.2729.32	PP22-0133-T-000334	XP2231492AT0009	
138	FV1281	Mixproof Valve	Top:2" Bottom:3"	316L	Raw material	TBD	TBD	PP22-0133-T000005	Butt Weld	ASME BPE	2"-3"	0.2~0.8	AMB	1	150	NEUMO	30107.1400.03.2729.32	PP22-0133-T-000334	XP2231492AT0009	
139	FV1282	Mixproof Valve	Top:1.5" Bottom:3"	316L	Raw material	TBD	TBD	PP22-0133-T000005	Butt Weld	ASME BPE	1.5"-3"	0.2~0.8	AMB	1	150	NEUMO	30107.1400.03.2629.32	PP22-0133-T-000333	XP2231492AT0008	
140	FV1283	Mixproof Valve	Top:4" Bottom:3"	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	4"-3"	0.2~0.8	AMB	1	150	NEUMO	30107.1400.03.3029.32	PP22-0133-T-000337	XP2231492AT0012	
141	FV1284	Mixproof Valve	Top:3" Bottom:3"	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	3"-3"	0.2~0.8	AMB	1	150	NEUMO	30107.1400.03.2929.32	PP22-0133-T-000335	XP2231492AT0010	
142	FV1301	Pneumatic Diaphragm Valve	Failure Position:NO Double Feedback	1.4435 casting	Exhaust gas	0.018	1.293	PP22-0133-T000005	Butt Weld	ASME BPE	1.5"	0.1~0.3	20~95	0.6	150	GEMU	687 40D 59 C3 5M 2 H/N 1507(S1=S2=10) + 1232000ZA103051110304+0324 2M 1474 41C1010210	PP22-0133-T-000044	00VA0002448	
143	FV1302	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CCA	0.019	2.68/8.9	PP22-0133-T000005	Butt Weld	ASME BPE	2"	0.14	40	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
144	FV1303	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	DR	~1	~1000	PP22-0133-T000005	Butt Weld	ASME BPE	3/4"	ATM	20~95	2	180	Modentic	V-A58EB/MDNSII-63/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000560	00VC0005160	
145	FV1304	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CCA	0.019	2.68/8.9	PP22-0133-T000005	Butt Weld	ASME BPE	1"	0.14	40	1	130	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
146	FV1305	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Powder	0.021	1.09	PP22-0133-T000005	Butt Weld	ASME BPE	2"	0.01	~99	2	180	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
147	FV1306	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Liquid	0.021	1.09	PP22-0133-T000005	Butt Weld	ASME BPE	2"	0.01	~99	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
148	FV1307	Pneumatic Diaphragm Valve	Failure Position:NC Double Feedback	1.4435 casting	CIPS	1	1000	PP22-0133-T000005	Butt Weld	ASME BPE	1/2"	0.2~0.8	60~80	0.6	150	GEMU	625 15D 59 C3 54 1 1/N 1507(S1=S2=10)+1232000ZA103051110304+0324 2M1474 41C1010210	PP22-0133-T-000041	00VA0002444	
149	FV1312	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
150	FV1313	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
151	FV1317	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T000005	Butt Weld	ASME BPE	2.5"	ATM	20~95	1	135	NEUMO	360259582/2	PP22-0133-T-000029	00VB0002072	
152	FV1319	Pneumatic Diaphragm Valve	Failure Position:NC Double Feedback	1.4435 casting	CIPS	1	1000	PP22-0133-T000005	Butt Weld	ASME BPE	3/4"	0.2~0.8	60~80	0.6	150	GEMU	625 20D 59 C3 54 1 1/N 1507(S1=S2=10)+1232000ZA103051110304+0324 2M1474 41C1010210	PP22-0133-T-000042	00VA0002673	
153	FV1320	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
154	FV1321	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Clean Steam	0.01~0.1	1.672	PP22-0133-T000005	Butt Weld	ASME BPE	1"	0.14	121	1	130	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
155	FV1323	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
156	FV1324	Pneumatic Ball Valve	Failure Position:NO Double Feedback	CF3M	Exhaust gas	0.021	1.09	PP22-0133-T000005	Butt Weld	ASME BPE	1.5"	0.01	~99	2	180	Modentic	V-A58EB/MDNSII-92/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000562	00VC0005342	
157	FV1328	Pneumatic Diaphragm Valve	Failure Position:NC Double Feedback	1.4435 casting	DR	1	1000	PP22-0133-T000005	Butt Weld	ASME BPE	1/2"	ATM	20~95	0.6	150	GEMU	625 15D 59 C3 54 1 1/N 1507(S1=S2=10)+1232000ZA103051110304+0324 2M1474 41C1010210	PP22-0133-T-000041	00VA0002444	
158	FV1329	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
159	FV1331	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
160	FV1332	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
161	FV1333	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
162	FV1334	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	

163	FV1336	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	0.2~0.8	AMB	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
164	FV1339	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2.5"	ATM	20~95	1	135	NEUMO	360259582/2	PP22-0133-T-000029	00VB0002072	
165	FV1340	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	ATM	20~95	2	180	Modentic	V-A58EB/MDNSII-75/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000561	00VC0005338	
166	FV1341	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1.5"	0.2~0.8	60~80	1	135	NEUMO	360257582/2	PP22-0133-T-000027	00VB0002070	
167	FV1342	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Exhaust gas	0.021	1.09	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.01	~99	1	130	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
168	FV1343	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1.5"	0.2~0.8	60~80	1	135	NEUMO	360257582/2	PP22-0133-T-000027	00VB0002070	
169	FV1344	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
170	FV1345	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
171	FV1346	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.8	60~80	1	130	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
172	FV1347	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
173	FV1348	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	135	NEUMO	360262582/2	PP22-0133-T-000031	00VB0002074	
174	FV1725	Pneumatic Ball Valve	Three Valve Openings	CF3M	C	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB/MDNDII- 63/4V330C08B-24V/LSM-300- M4-2-G1/2"+FRM200+MASC200- 08	PP22-0133-T-000569	XP2231492AT0014	
175	FV1726	Pneumatic Ball Valve	Three Valve Openings	CF3M	C	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB/MDNDII- 63/4V330C08B-24V/LSM-300- M4-2-G1/2"+FRM200+MASC200- 08	PP22-0133-T-000569	XP2231492AT0014	
176	FV1727	Pneumatic Ball Valve	Three Valve Openings	CF3M	C	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB/MDNDII- 63/4V330C08B-24V/LSM-300- M4-2-G1/2"+FRM200+MASC200- 08	PP22-0133-T-000569	XP2231492AT0014	
177	FV1825	Pneumatic Ball Valve	Three Valve Openings	CF3M	C	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB/MDNDII- 63/4V330C08B-24V/LSM-300- M4-2-G1/2"+FRM200+MASC200- 08	PP22-0133-T-000569	XP2231492AT0014	
178	FV1826	Pneumatic Ball Valve	Three Valve Openings	CF3M	C	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB/MDNDII- 63/4V330C08B-24V/LSM-300- M4-2-G1/2"+FRM200+MASC200- 08	PP22-0133-T-000569	XP2231492AT0014	
179	FV1827	Pneumatic Ball Valve	Three Valve Openings	CF3M	C	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB/MDNDII- 63/4V330C08B-24V/LSM-300- M4-2-G1/2"+FRM200+MASC200- 08	PP22-0133-T-000569	XP2231492AT0014	
180	FV1925	Pneumatic Ball Valve	Three Valve Openings	CF3M	C	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB/MDNDII- 63/4V330C08B-24V/LSM-300- M4-2-G1/2"+FRM200+MASC200- 08	PP22-0133-T-000569	XP2231492AT0014	
181	FV1926	Pneumatic Ball Valve	Three Valve Openings	CF3M	C	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB/MDNDII- 63/4V330C08B-24V/LSM-300- M4-2-G1/2"+FRM200+MASC200- 08	PP22-0133-T-000569	XP2231492AT0014	
182	FV1927	Pneumatic Ball Valve	Three Valve Openings	CF3M	C	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB/MDNDII- 63/4V330C08B-24V/LSM-300- M4-2-G1/2"+FRM200+MASC200- 08	PP22-0133-T-000569	XP2231492AT0014	
183	MV1101	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	AMB	1	135	NEUMO	360258012/2	PP22-0133-T-000035	00VB0002077	
184	MV1102	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	AMB	1	135	NEUMO	360258012/2	PP22-0133-T-000035	00VB0002077	
185	MV1103	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	AMB	1	135	NEUMO	360258012/2	PP22-0133-T-000035	00VB0002077	
186	MV1104	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	1.5"	0.2~0.8	AMB	1	135	NEUMO	360257012/2	PP22-0133-T-000034	00VB0002076	
187	MV1138	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	0.2~0.8	AMB	1	135	NEUMO	360260012/2	PP22-0133-T-000037	00VB0002078	
188	MV1139	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	0.2~0.8	60~80	1	135	NEUMO	360260012/2	PP22-0133-T-000037	00VB0002078	
189	MV1141	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	DR	~1	~1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	ATM	20~95	1	135	NEUMO	360260012/2	PP22-0133-T-000037	00VB0002078	
190	MV1201	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	AMB	1	135	NEUMO	360258012/2	PP22-0133-T-000035	00VB0002077	

191	MV1202	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T000005	Butt Weld	ASME BPE	2"	0.2~0.8	AMB	1	135	NEUMO	360258012/2	PP22-0133-T-000035	00VB0002077	
192	MV1203	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T000005	Butt Weld	ASME BPE	2"	0.2~0.8	AMB	1	135	NEUMO	360258012/2	PP22-0133-T-000035	00VB0002077	
193	MV1204	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T000005	Butt Weld	ASME BPE	1.5"	0.2~0.8	AMB	1	135	NEUMO	360257012/2	PP22-0133-T-000034	00VB0002076	
194	MV1238	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	3"	0.2~0.8	AMB	1	135	NEUMO	360260012/2	PP22-0133-T-000037	00VB0002078	
195	MV1239	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	3"	0.2~0.8	AMB	1	135	NEUMO	360260012/2	PP22-0133-T-000037	00VB0002078	
196	MV1240	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	3"	0.2~0.8	AMB	1	135	NEUMO	360260012/2	PP22-0133-T-000037	00VB0002078	
197	MV1241	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	3"	0.2~0.8	AMB	1	135	NEUMO	360260012/2	PP22-0133-T-000037	00VB0002078	
198	MV1301	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T000005	Butt Weld	ASME BPE	2"	0.2~0.8	AMB	1	135	NEUMO	360258012/2	PP22-0133-T-000035	00VB0002077	
199	MV1302	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T000005	Butt Weld	ASME BPE	2"	0.2~0.8	AMB	1	135	NEUMO	360258012/2	PP22-0133-T-000035	00VB0002077	
200	MV1303	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T000005	Butt Weld	ASME BPE	2"	0.2~0.8	AMB	1	135	NEUMO	360258012/2	PP22-0133-T-000035	00VB0002077	
201	MV1304	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T000005	Butt Weld	ASME BPE	1.5"	0.2~0.8	AMB	1	135	NEUMO	360257012/2	PP22-0133-T-000034	00VB0002076	
202	MV1338	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	3"	0.2~0.8	AMB	1	135	NEUMO	360260012/2	PP22-0133-T-000037	00VB0002078	
203	MV1339	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	3"	0.2~0.8	AMB	1	135	NEUMO	360260012/2	PP22-0133-T-000037	00VB0002078	
204	PSV1101	Pressure Safety Valve	located on the top of 9500L tank, Design pressure of tank: -1~2barg	316L	CIP/SIP	0.018	1.293	PP22-0133-T000005	Tri-clamp	ASME BPE	2"-3"	0.1~0.3	20~90	1	150	LESER	4884.8852	PP22-0133-T-000331	00VH0000629	
205	PSV1104	Pressure Relief Valve	Set Pressure P=9.5barg	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	150	NEUMO	41210.1004.03.0030.32	PP22-0133-T-000540	00VR0000133	
206	PSV1201	Pressure Safety Valve	located on the top of 6000L tank, Design pressure of tank: -1~2barg	316L	CIP/SIP	0.018	1.293	PP22-0133-T000005	Tri-clamp	ASME BPE	2"-3"	0.1~0.3	20~90	1	150	LESER	4884.8852	PP22-0133-T-000331	00VH0000629	
207	PSV1204	Pressure Relief Valve	Set Pressure P=9.5barg	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	150	NEUMO	41210.1004.03.0030.32	PP22-0133-T-000540	00VR0000133	
208	PSV1301	Pressure Safety Valve	located on the top of 1500L tank, Design pressure of tank: -1~2barg	316L	CIP/SIP	0.018	1.293	PP22-0133-T000005	Tri-clamp	ASME BPE	1.5"-2"	0.1~0.3	20~90	1	150	LESER	4884.8842	PP22-0133-T-000330	00VH0000628	
209	PSV1304	Pressure Relief Valve	Set Pressure P=9.5barg	316L	Product	100	1000	PP22-0133-T000005	Butt Weld	ASME BPE	4"	0.2~0.8	AMB	1	150	NEUMO	41210.1004.03.0030.32	PP22-0133-T-000540	00VR0000133	
210	PU1101	Lobe Pump	Motor Type:SK42-180MP/4 TF F IG12 Power: 18.5kW	316L	Product	100	1000	PP22-0133-T000005	TC	3A	3"	0.2~0.8	AMB	1	150	Waukesha	U3-180	PP22-0133-T-000417	XP2231492AL0002	
211	PU1201	Lobe Pump	Motor Type:SK42-180MP/4 TF F IG12 Power: 18.5kW	316L	Product	100	1000	PP22-0133-T000005	TC	3A	3"	0.2~0.8	AMB	1	150	Waukesha	U3-180	PP22-0133-T-000417	XP2231492AL0002	
212	PU1301	Lobe Pump	Motor Type:SK42-160LP/4 TF F IG12 Power: 15kW	316L	Product	100	1000	PP22-0133-T000005	TC	3A	3"	0.2~0.8	AMB	1	150	Waukesha	U3-180	PP22-0133-T-000416	XP2231492AL0001	
213	ST1101	Steam Trap	1100kg/h,ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T000005	Tri-clamp	ASME BPE	1"	ATM	20~95	0.6	150	Spirax sacro	BT6-BH	PP22-0133-T-000122	00VJ0000010	
214	ST1102	Steam Trap	1100kg/h,ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T000005	Tri-clamp	ASME BPE	1"	ATM	20~95	0.6	150	Spirax sacro	BT6-BH	PP22-0133-T-000122	00VJ0000010	
215	ST1103	Steam Trap	130kg/h, ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T000005	Tri-clamp	ASME BPE	1/2"	ATM	20~95	0.7	170	Spirax sacro	BTM7	PP22-0133-T-000121	00VJ0000018	
216	ST1201	Steam Trap	1100kg/h,ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T000005	Tri-clamp	ASME BPE	1"	ATM	20~95	0.6	150	Spirax sacro	BT6-BH	PP22-0133-T-000122	00VJ0000010	
217	ST1203	Steam Trap	130kg/h, ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T000005	Tri-clamp	ASME BPE	1/2"	ATM	20~95	0.7	170	Spirax sacro	BTM7	PP22-0133-T-000121	00VJ0000018	
218	ST1301	Steam Trap	1100kg/h,ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T000005	Tri-clamp	ASME BPE	1"	ATM	20~95	0.6	150	Spirax sacro	BT6-BH	PP22-0133-T-000122	00VJ0000010	
219	ST1303	Steam Trap	130kg/h, ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T000005	Tri-clamp	ASME BPE	1/2"	ATM	20~95	0.7	170	Spirax sacro	BTM7	PP22-0133-T-000121	00VJ0000018	
220	STR1101	L-Filter	Precision: 100 mesh	316L	CIPS	1	1000	PP22-0133-T000005	Tri-clamp	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	S-I-B-O Speical filter L- OD2" 100mesh	PP22-0133-T-000603	XP2231492AT0007	
221	STR1201	L-Filter	Precision: 100 mesh	316L	CIPS	1	1000	PP22-0133-T000005	Tri-clamp	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	S-I-B-O Speical filter L- OD2" 100mesh	PP22-0133-T-000603	XP2231492AT0007	
222	STR1301	L-Filter	Precision: 100 mesh	316L	CIPS	1	1000	PP22-0133-T000005	Tri-clamp	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	S-I-B-O Speical filter L- OD2" 100mesh	PP22-0133-T-000603	XP2231492AT0007	
223	SV1101	Sampling Valve	Piping Sampling	1.4404	Product	100	1000	PP22-0133-T000005	Tri- Clamp	ASME BPE	2"	0.2~0.8	AMB	1	121	KEOFITT	W15 C(860002)+H(865541)	PP22-0133-T-000600	00VS0000091	

224	SV1201	Sampling Valve	Piping Sampling	1.4404	Product	100	1000	PP22-0133-T 000005	Tri- Clamp	ASME BPE	2"	0.2~0.8	AMB	1	121	KEOFITT	W15 C(860002)+H(865541)	PP22-0133-T-000600	00VS0000091	
225	SV1301	Sampling Valve	Piping Sampling	1.4404	Product	100	1000	PP22-0133-T 000005	Tri- Clamp	ASME BPE	2"	0.2~0.8	AMB	1	121	KEOFITT	W15 C(860002)+H(865541)	PP22-0133-T-000600	00VS0000091	
226	EHT1102	Electric Heating Jacket	Output Power: 0.6kW	Silicone	CA	0.018	1.293	PP22-0133-T 000005	N/A	N/A	20"	0.1~0.3	20~90	0.7	200	Sinobrane Life Sciences	KDSI-20-540 220V	PP22-0133-T-000379	009AE0000015	
227	EHT1202	Electric Heating Jacket	Output Power: 0.6kW	Silicone	CA	0.018	1.293	PP22-0133-T 000005	N/A	N/A	20"	0.1~0.3	20~90	0.7	200	Sinobrane Life Sciences	KDSI-20-540 220V	PP22-0133-T-000379	009AE0000015	
228	EHT1302	Electric Heating Jacket	Output Power: 0.15kW	Silicone	CA	0.018	1.293	PP22-0133-T 000005	N/A	N/A	5"	0.1~0.3	20~90	0.7	200	Sinobrane Life Sciences	KDSI-05-185 220V	PP22-0133-T-000376	009AE0000011	
229	FV1169	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	316L	Clean Steam	0.01~0.1	1.672	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.14	121	1	130	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
230	FV1269	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	316L	Clean Steam	0.01~0.1	1.672	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.14	121	1	130	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
231	FV1369	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	316L	Clean Steam	0.01~0.1	1.672	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.14	121	1	130	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
232	ST1104	Steam Trap	130kg/h, ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T 000005	Tri-clamp	ASME BPE	1/2"	ATM	20~95	0.7	170	Spirax sacro	BTM7	PP22-0133-T-000121	00VJ0000018	
233	ST1204	Steam Trap	130kg/h, ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T 000005	Tri-clamp	ASME BPE	1/2"	ATM	20~95	0.7	170	Spirax sacro	BTM7	PP22-0133-T-000121	00VJ0000018	
234	ST1304	Steam Trap	130kg/h, ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T 000005	Tri-clamp	ASME BPE	1/2"	ATM	20~95	0.7	170	Spirax sacro	BTM7	PP22-0133-T-000121	00VJ0000018	
235	MV1105	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	AMB	1	135	NEUMO	360258012/2	PP22-0133-T-000035	00VB0002077	
236	MV1205	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	AMB	1	135	NEUMO	360258012/2	PP22-0133-T-000035	00VB0002077	
237	MV1305	Manual Butterfly Valve	UNION, With proximity switch mounting bracket	316L	Raw material	TBD	TBD	PP22-0133-T 000005	Butt Weld	ASME BPE	2"	0.2~0.8	AMB	1	135	NEUMO	360258012/2	PP22-0133-T-000035	00VB0002077	
238	FV1166	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.8	60~80	1	130	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
239	FV1266	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.8	60~80	1	130	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
240	FV1366	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	316L	CIPS	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.8	60~80	1	130	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
241	FV1167	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	316L	CCA	0.019	2.68/8.9	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.14	40	1	135	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
242	FV1267	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	316L	CCA	0.019	2.68/8.9	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.14	40	1	135	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
243	FV1168	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	316L	CCA	0.019	2.68/8.9	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.14	40	1	135	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
244	FV1268	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	316L	CCA	0.019	2.68/8.9	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.14	40	1	135	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
245	CV1101	Check Valve	Spring Type	316L	CCA	0.019	2.68/8.9	PP22-0133-T 000005	Tri-clamp	ASME BPE	1"	0.14/0.6	40	1	150	NEUMO	45C-6-1.0-E	PP22-0133-T-001775	00VD0001171	
246	CV1102	Check Valve	Spring Type	316L	CCA	0.019	2.68/8.9	PP22-0133-T 000005	Tri-clamp	ASME BPE	1"	0.14/0.6	40	1	150	NEUMO	45C-6-1.0-E	PP22-0133-T-001775	00VD0001171	
247	CV1201	Check Valve	Spring Type	316L	CCA	0.019	2.68/8.9	PP22-0133-T 000005	Tri-clamp	ASME BPE	1"	0.14/0.6	40	1	150	NEUMO	45C-6-1.0-E	PP22-0133-T-001775	00VD0001171	
248	CV1202	Check Valve	Spring Type	316L	CCA	0.019	2.68/8.9	PP22-0133-T 000005	Tri-clamp	ASME BPE	1"	0.14/0.6	40	1	150	NEUMO	45C-6-1.0-E	PP22-0133-T-001775	00VD0001171	
249	FV1189	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	316L	FM	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.8	60~80	1	135	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
250	FV1289	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	316L	FM	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.8	60~80	1	135	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
251	FV1389	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	316L	FM	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.8	60~80	1	135	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
252	F1104	Filter-Housing	Spec: 5"	316L	CA	0.018	1.293	PP22-0133-T 000005	Tri-clamp	ASME BPE	1"	0.1~0.3	20~90	0.7	140	PALL	SAS0105GBP15D1NH4E	PP22-0133-T-001956	009AB0000127	
253	F1104	Filter Cartridge	Spec: 5" Pore size:0.2um	PTFE	CA	0.018	1.293	PP22-0133-T 000005	N/A	N/A	5"	N/A	N/A	0.6	142	PALL	AB05PFR2PVH4	PP22-0133-T-000246	009AC0000021	
254	FV1190	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	316L	FM	1	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	1"	0.2~0.8	60~80	1	135	NEUMO	360254582/2	PP22-0133-T-000242	00VB0002069	
255	FV1191	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T 000005	Butt Weld	ASME BPE	3"	0.2~0.8	AMB	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
256	FH1104	Flexible Hose	Length:400mm	316L	CCA	0.019	2.68/8.9	PP22-0133-T 000005	Tri-clamp	ASME BPE	1.5"	~0.14	~40	-0.09~1.6	-40~150	Pharmflex®	24GP4064060-0400-0	PP22-0133-T-000676	00JAN0000610	
257	FH1109	Flexible Hose	Length:500mm	316L	CIPS	1	1000	PP22-0133-T 000005	Tri-clamp	ASME BPE	2"	0.2~0.8	20~80	-0.09~1.6	-40~150	Pharmflex®	32GP4064060-0500-0	PP22-0133-T-000674	00JAN0000611	
258	FH1113	Flexible Hose	Length:300mm	316L	DR	~1	~1000	PP22-0133-T 000005	Tri-clamp	ASME BPE	3/4"	ATM	20~95	-0.09~1.6	-40~150	Pharmflex®	12GP4264260-0300-0	PP22-0133-T-000672	00JAN0000608	
259	FH1204	Flexible Hose	Length:400mm	316L	CCA	0.019	2.68/8.9	PP22-0133-T 000005	Tri-clamp	ASME BPE	1.5"	~0.14	~40	-0.09~1.6	-40~150	Pharmflex®	24GP4064060-0400-0	PP22-0133-T-000676	00JAN0000610	
260	FH1209	Flexible Hose	Length:500mm	316L	CIPS	1	1000	PP22-0133-T 000005	Tri-clamp	ASME BPE	2"	0.2~0.8	20~80	-0.09~1.6	-40~150	Pharmflex®	32GP4064060-0500-0	PP22-0133-T-000674	00JAN0000611	
261	FH1213	Flexible Hose	Length:300mm	316L	DR	~1	~1000	PP22-0133-T 000005	Tri-clamp	ASME BPE	3/4"	ATM	20~95	-0.09~1.6	-40~150	Pharmflex®	12GP4264260-0300-0	PP22-0133-T-000672	00JAN0000608	

262	FH1304	Flexible Hose	Length:300mm	316L	CCA	0.019	2.68/8.9	PP22-0133-T-000005	Tri-clamp	ASME BPE	1"	~0.14	~40	-0.09~1.6	-40~150	Pharmflex®	16GP4064060-0300-0	PP22-0133-T-000673	00JAN0000609	
263	FH1309	Flexible Hose	Length:500mm	316L	CIPS	1	1000	PP22-0133-T-000005	Tri-clamp	ASME BPE	2"	0.2~0.8	20~80	-0.09~1.6	-40~150	Pharmflex®	32GP4064060-0500-0	PP22-0133-T-000674	00JAN0000611	
264	FH1313	Flexible Hose	Length:300mm	316L	DR	~1	~1000	PP22-0133-T-000005	Tri-clamp	ASME BPE	3/4"	ATM	20~95	-0.09~1.6	-40~150	Pharmflex®	12GP4264260-0300-0	PP22-0133-T-000672	00JAN0000608	
265	SG1101	Sight Glass	hold	316L	FM	1	1000	PP22-0133-T-000005	Tri-clamp	ASME BPE	6"	0.1~0.6	25~80	0.3	135	NEUMO	SG.SV.600.SF1	PP22-0133-T-000669	00JCH0000169	
266	SG1201	Sight Glass	hold	316L	FM	1	1000	PP22-0133-T-000005	Tri-clamp	ASME BPE	4"	0.1~0.6	25~80	0.4	135	NEUMO	SG.SV.400.SF1	PP22-0133-T-000373	00JCH0000168	
267	SG1301	Sight Glass	hold	316L	FM	1	1000	PP22-0133-T-000005	Tri-clamp	ASME BPE	4"	0.1~0.6	25~80	0.4	135	NEUMO	SG.SV.400.SF1	PP22-0133-T-000373	00JCH0000168	
268	CV1150	Check Valve	Swing type	CF8	PCWS	0.89	997	PP22-0133-T-000006	Flange	ASME B16.5 150#	3"	0.5	32/42	2	180	Modentic	SF-150	PP22-0133-T-000621	00VD0000820	
269	CV1151	Check Valve	Swing type	CF8	PCWR	0.89	997	PP22-0133-T-000006	Flange	ASME B16.5 150#	3"	0.5	32/42	2	180	Modentic	SF-150	PP22-0133-T-000621	00VD0000820	
270	CV1250	Check Valve	Swing type	CF8	PCWS	0.89	997	PP22-0133-T-000006	Flange	ASME B16.5 150#	3"	0.5	32/42	2	180	Modentic	SF-150	PP22-0133-T-000621	00VD0000820	
271	CV1251	Check Valve	Swing type	CF8	PCWR	0.89	997	PP22-0133-T-000006	Flange	ASME B16.5 150#	3"	0.5	32/42	2	180	Modentic	SF-150	PP22-0133-T-000621	00VD0000820	
272	CV1350	Check Valve	Swing type	CF8	PCWS	0.89	997	PP22-0133-T-000006	Flange	ASME B16.5 150#	2"	0.5	32/42	2	180	Modentic	SF-150	PP22-0133-T-000619	00VD0000819	
273	CV1351	Check Valve	Swing type	CF8	PCWR	0.89	997	PP22-0133-T-000006	Flange	ASME B16.5 150#	2"	0.5	32/42	2	180	Modentic	SF-150	PP22-0133-T-000619	00VD0000819	
274	ET1150	Expansion Tank	Membrane: EPDM-HT	Carbon Steel	water	~1	~1000	PP22-0133-T-000006	Thread	G Thread	G1"	0.15	10~93	1	-10~140	AQUASYSTEM	VSV150	PP22-0133-T-000760	XP2231492AT0018	
275	ET1151	Expansion Tank	Membrane: EPDM-HT	Carbon Steel	water	~1	~1000	PP22-0133-T-000006	Thread	G Thread	G1"	0.15	10~93	1	-10~140	AQUASYSTEM	VSV150	PP22-0133-T-000760	XP2231492AT0018	
276	ET1250	Expansion Tank	Membrane: EPDM-HT	Carbon Steel	water	~1	~1000	PP22-0133-T-000006	Thread	G Thread	G1"	0.15	10~93	1	-10~140	AQUASYSTEM	VSV100	PP22-0133-T-000759	XP2231492AT0017	
277	ET1251	Expansion Tank	Membrane: EPDM-HT	Carbon Steel	water	~1	~1000	PP22-0133-T-000006	Thread	G Thread	G1"	0.15	10~93	1	-10~140	AQUASYSTEM	VSV150	PP22-0133-T-000760	XP2231492AT0018	
278	ET1350	Expansion Tank	Membrane: EPDM-HT	Carbon Steel	water	~1	~1000	PP22-0133-T-000006	Thread	G Thread	G3/4"	0.15	10~93	1	-10~140	AQUASYSTEM	VSV50	PP22-0133-T-000311	XP2231492AT0015	
279	FV1151	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWR	0.89	997	PP22-0133-T-000006	Flange	ASME B36.19	3"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII83/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000349	00VB0002037	
280	FV1152	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T-000006	Flange	ASME B36.19	3"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII83/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000349	00VB0002037	
281	FV1153	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWR	0.89	997	PP22-0133-T-000006	Flange	ASME B36.19	3"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII83/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000349	00VB0002037	
282	FV1154	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T-000006	Butt Weld	ASME B36.19	2"	0.5	32/42	1	150	Modentic	V-258B/MDNSII-92/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000069	00VC0004479	
283	TCV1157	Temperature Control Valve	Small flow regulation	CF8	Plant Steam	0.014	~2.67	PP22-0133-T-000006	Butt Weld	ASME B36.19	1/2"	0.14	121	1	150	Modentic	VB-258B/60°/MDNSII-63/EPR-WN2SL3NTR/FR-10	PP22-0133-T-000388	XP2231492V0004	
284	FV1158	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	Plant Steam	0.014	~2.67	PP22-0133-T-000006	Butt Weld	ASME B36.19	2.5"	0.14	121	1	150	Modentic	V-258B/MDNSII-105/EV61-531MB1-24V/LSM-200-M2-2	PP22-0133-T-000070	00VC0005451	
285	FV1159	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T-000006	Flange	ASME B36.19	3"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII83/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000349	00VB0002037	
286	FV1160	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T-000006	Flange	ASME B36.19	3"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII83/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000349	00VB0002037	
287	FV1161	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T-000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-258B/MDNSII-63/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000068	00VC0004505	
288	FV1162	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T-000006	Flange	ASME B36.19	3"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII83/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000349	00VB0002037	
289	FV1163	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	PCWR	0.89	997	PP22-0133-T-000006	Butt Weld	ASME B36.19	1/2"	0.5	32/42	1	150	Modentic	V-258B/MDNSII-52/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000316	00VC0004504	
290	FV1251	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWR	0.89	997	PP22-0133-T-000006	Flange	ASME B36.19	3"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII83/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000349	00VB0002037	
291	FV1252	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T-000006	Flange	ASME B36.19	3"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII83/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000349	00VB0002037	
292	FV1253	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWR	0.89	997	PP22-0133-T-000006	Flange	ASME B36.19	3"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII83/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000349	00VB0002037	

293	FV1254	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	2"	0.5	32/42	1	150	Modentic	V-258B/MDNSII-92/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000069	00VC0004479	
294	TCV1257	Temperature Control Valve	Small flow regulation	CF8	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Butt Weld	ASME B36.19	1/2"	0.14	121	1	150	Modentic	VB-258B/60"/MDNSII-63/EPR- WN2SL3NTR/FR-10	PP22-0133-T-000388	XP2231492V0004	
295	FV1258	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Butt Weld	ASME B36.19	2.5"	0.14	121	1	150	Modentic	V-258B/MDNSII-105/EV61- 531MB1-24V/LSM-200-M2-2	PP22-0133-T-000070	00VC0005451	
296	FV1259	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	3"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII83/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000349	00VB0002037	
297	FV1260	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	3"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII83/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000349	00VB0002037	
298	FV1261	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-258B/MDNSII-63/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000068	00VC0004505	
299	FV1262	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	3"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII83/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000349	00VB0002037	
300	FV1263	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	PCWR	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	1/2"	0.5	32/42	1	150	Modentic	V-258B/MDNSII-52/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000316	00VC0004504	
301	FV1351	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWR	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	2"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII75/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000350	00VB0002039	
302	FV1352	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	2"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII75/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000350	00VB0002039	
303	FV1353	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWR	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	2"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII75/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000350	00VB0002039	
304	FV1354	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	2"	0.5	32/42	1	150	Modentic	V-258B/MDNSII-92/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000069	00VC0004479	
305	TCV1357	Temperature Control Valve	Small flow regulation	CF8	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Butt Weld	ASME B36.19	1/2"	0.14	121	1	150	Modentic	VB-258B/60"/MDNSII-63/EPR- WN2SL3NTR/FR-10	PP22-0133-T-000388	XP2231492V0004	
306	FV1358	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Butt Weld	ASME B36.19	1.5"	0.14	121	1	150	Modentic	V-258B/MDNSII-83/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000073	00VC0005289	
307	FV1359	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	2"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII75/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000350	00VB0002039	
308	FV1360	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	2"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII75/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000350	00VB0002039	
309	FV1361	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-258B/MDNSII-63/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000068	00VC0004505	
310	FV1362	Pneumatic Butterfly valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	2"	0.5	32/42	1	150	Modentic	VF-765-150/MDNSII75/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000350	00VB0002039	
311	FV1363	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	PCWR	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	1/2"	0.5	32/42	1	150	Modentic	V-258B/MDNSII-52/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000316	00VC0004504	
312	HEX1150	Plate Heat Exchanger	Heat transfer area: 2.06m ² , No. of plates: 16	Alloy316/EPD MP ClipGrip™	Plant Steam	0.014	~2.67	PP22-0133-T 000006	NPS	ASME B16.5 NPS2 class 150lb	2"	0.5	32/42	0.8	70	Alfa Laval	T6-PFG	PP22-0133-T-000381	XP2231492AI0002	
313	HEX1151	Plate Heat Exchanger	Heat transfer area: 12.6m ² , No. of plates: 86	Alloy316/EPD MC	PCWS	0.89	997	PP22-0133-T 000006	NPS	ASME B16.5 NPS2 class 150lb	2"	0.5	32/42	0.8	70	Alfa Laval	T6-BFG	PP22-0133-T-000402	XP2231492AI0016	
314	HEX1250	Plate Heat Exchanger	Heat transfer area: 1.37m ² , No. of plates: 18	Alloy316/EPD MP ClipGrip™	Plant Steam	0.014	~2.67	PP22-0133-T 000006	NPS	ASME B16.5 NPS2.5 class 150lb	2.5"	0.5	32/42	0.8	70	Alfa Laval	TS6-MFD	PP22-0133-T-000399	XP2231492AI0018	
315	HEX1251	Plate Heat Exchanger	Heat transfer area: 11.7m ² , No. of plates: 80	Alloy316/EPD MC	PCWS	0.89	997	PP22-0133-T 000006	NPS	ASME B16.5 NPS2 class 150lb	2"	0.5	32/42	0.8	70	Alfa Laval	T6-BFG	PP22-0133-T-000401	XP2231492AI0009	
316	HEX1350	Plate Heat Exchanger	Heat transfer area: 0.68m ² , No. of plates: 10	Alloy316/EPD MP ClipGrip™	Plant Steam	0.014	~2.67	PP22-0133-T 000006	NPS	ASME B16.5 NPS2.5 class 150lb	2.5"	0.5	32/42	0.8	70	Alfa Laval	TS6-MFD	PP22-0133-T-000398	XP2231492AI0017	
317	HEX1351	Plate Heat Exchanger	Heat transfer area: 5.25m ² , No. of plates: 37	Alloy316/EPD MC	PCWS	0.89	997	PP22-0133-T 000006	NPS	ASME B16.5 NPS2 class 150lb	2"	0.5	32/42	0.8	70	Alfa Laval	T6-BFG	PP22-0133-T-000400	XP2231492AI0008	
318	MV1152	Manual Ball Valve	ON/OFF	CF8	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Butt Weld	ASME B36.19	1/2"	0.14	121	1	150	Modentic	V-205B	PP22-0133-T-000071	00VC0004169	
319	MV1153	Manual Ball Valve	ON/OFF	CF8	PSC	0.16	896	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	~0.14	121	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	

320	MV1154	Manual Ball Valve	ON/OFF	CF8	PCWS	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
321	MV1156	Manual Ball Valve	ON/OFF	CF8	PCWS	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
322	MV1157	Manual Butterfly Valve	N/A	CF8	PCWS	0.89	997	PP22-0133-T 000006	Wafer Flange	ASME B36.19	3"	0.5	32/42	1	80	Modentic	VF-765-I	PP22-0133-T-000347	00VB0001278	
323	MV1158	Manual Ball Valve	ON/OFF	CF8	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Butt Weld	ASME B36.19	2.5"	0.14	121	1	150	Modentic	V-205B	PP22-0133-T-000076	00VC0003777	
324	MV1252	Manual Ball Valve	ON/OFF	CF8	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Butt Weld	ASME B36.19	1/2"	0.14	121	1	150	Modentic	V-205B	PP22-0133-T-000071	00VC0004169	
325	MV1253	Manual Ball Valve	ON/OFF	CF8	PSC	0.16	896	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	~0.14	121	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
326	MV1254	Manual Ball Valve	ON/OFF	CF8	PCWS	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
327	MV1256	Manual Ball Valve	ON/OFF	CF8	PCWS	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
328	MV1257	Manual Butterfly Valve	N/A	CF8	PCWS	0.89	997	PP22-0133-T 000006	Wafer Flange	ASME B36.19	3"	0.5	32/42	1	80	Modentic	VF-765-I	PP22-0133-T-000347	00VB0001278	
329	MV1258	Manual Ball Valve	ON/OFF	CF8	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Butt Weld	ASME B36.19	2.5"	0.14	121	1	150	Modentic	V-205B	PP22-0133-T-000076	00VC0003777	
330	MV1352	Manual Ball Valve	ON/OFF	CF8	PSC	0.16	896	PP22-0133-T 000006	Butt Weld	ASME B36.19	1/2"	~0.14	121	1	150	Modentic	V-205B	PP22-0133-T-000071	00VC0004169	
331	MV1353	Manual Ball Valve	ON/OFF	CF8	PSC	0.16	896	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	~0.14	121	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
332	MV1354	Manual Ball Valve	ON/OFF	CF8	PCWS	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
333	MV1356	Manual Ball Valve	ON/OFF	CF8	PCWS	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
334	MV1357	Manual Butterfly Valve	N/A	CF8	PCWS	0.89	997	PP22-0133-T 000006	Wafer Flange	ASME B36.19	2"	0.5	32/42	1	80	Modentic	VF-765-I	PP22-0133-T-000026	00VB0001180	
335	MV1358	Manual Ball Valve	ON/OFF	CF8	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Butt Weld	ASME B36.19	1.5"	0.14	121	1	150	Modentic	V-205B	PP22-0133-T-000074	00VC0004171	
336	PSV1150	Pressure Safety Valve	Set Pressure : 3.6barg Flow : 22.68 m³/h	CF8M	PCWR	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	1.5"-3"	0.5	32/42	0.03-41.4	217	Leser	5260.0222	PP22-0133-T-000106	00VH0000621	
337	PSV1151	Pressure Safety Valve	Set Pressure : 3.6barg Flow : 22.68 m³/h	CF8M	PCWR	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	1.5"-3"	0.5	32/42	0.03-41.4	217	Leser	5260.0222	PP22-0133-T-000106	00VH0000621	
338	PSV1250	Pressure Safety Valve	Set Pressure : 3.6barg Flow : 28.68 m³/h	CF8M	PCWR		997	PP22-0133-T 000006	Flange	ASME B36.19	1.5"-3"	0.5	32/42	0.03-41.4	217	Leser	5260.0292	PP22-0133-T-000107	00VH0000622	
339	PSV1251	Pressure Safety Valve	Set Pressure : 3.6barg Flow : 28.68 m³/h	CF8M	PCWR	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	1.5"-3"	0.5	32/42	0.03-41.4	217	Leser	5260.0292	PP22-0133-T-000107	00VH0000622	
340	PSV1350	Pressure Safety Valve	Set Pressure : 3.6barg Flow : 16.08 m³/h	CF8M	PCWR	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	1.5"-3"	0.5	32/42	0.03-41.4	217	Leser	5260.0222	PP22-0133-T-000106	00VH0000621	
341	PSV1351	Pressure Safety Valve	Set Pressure : 3.6barg Flow : 16.08 m³/h	CF8M	PCWR	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	1.5"-3"	0.5	32/42	0.03-41.4	217	Leser	5260.0222	PP22-0133-T-000106	00VH0000621	
342	PU1150	Centrifugal Pump	(NPSH)r: 2.5m Power: 4kW Rotary speed:2917 r/min	304 SS	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B16.5 300 lb	2"	0.5	32/42	0.8	70	Grundfos	CRI 20-3 F-FGJ-A-E-HQQE	PP22-0133-T-000088	XP2231492AA0001	
343	PU1250	Centrifugal Pump	(NPSH)r: 2.6m Power: 4kW Rotary speed:2917 r/min	316 SS	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	2.5"	0.5	32/42	0.8	70	Grundfos	CRN 32-2 F-G-A-E-HQQE	PP22-0133-T-000090	XP2231492AA0003	
344	PU1350	Centrifugal Pump	(NPSH)r: 2.1m Power: 3kW Rotary speed:2900-2920 r/min	304 SS	PCWR	0.89	997	PP22-0133-T 000006	Flange	ASME B16.5 300 lb	2"	0.5	32/42	0.8	70	Grundfos	CRI 15-3 F-FGJ-A-E-HQQE	PP22-0133-T-000089	XP2231492AA0002	
345	ST1150	Steam Trap	200kg/h, ΔP=0.4barg	1.4305	DR	~1	~1000	PP22-0133-T 000006	Thread	BSPP	1/2"	ATM	20~95	2.3	300	Spirax sacro	MST21H(NTS)	PP22-0133-T-000119	00VJ0000391	
346	ST1151	Float Trap	750kg/h,ΔP=0.4barg	304 SS	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Thread	BSPP	1"	0.14	121	2.5	300	Spirax sacro	FTGS14HC-4.5(R-L)	PP22-0133-T-000118	00VJ0000453	
347	ST1250	Steam Trap	200kg/h, ΔP=0.4barg	1.4305	DR	~1	~1000	PP22-0133-T 000006	Thread	BSPP	1/2"	ATM	20~95	2.3	300	Spirax sacro	MST21H(NTS)	PP22-0133-T-000119	00VJ0000391	
348	ST1251	Float Trap	750kg/h,ΔP=0.4barg	304 SS	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Thread	BSPP	1"	0.14	121	2.5	300	Spirax sacro	FTGS14HC-4.5(R-L)	PP22-0133-T-000118	00VJ0000453	
349	ST1350	Steam Trap	200kg/h, ΔP=0.4barg	1.4305	DR	~1	~1000	PP22-0133-T 000006	Thread	BSPP	1/2"	ATM	20~95	2.3	300	Spirax sacro	MST21H(NTS)	PP22-0133-T-000119	00VJ0000391	
350	ST1351	Float Trap	750kg/h,ΔP=0.4barg	304 SS	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Thread	BSPP	1"	0.14	121	2.5	300	Spirax sacro	FTGS14HC-4.5(R-L)	PP22-0133-T-000118	00VJ0000453	
351	STR1151	Y-Strainer	Precision: 40 mesh	CF8	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	3"	0.5	32/42	2	180	Modentic	YF-150-I	PP22-0133-T-000412	00VM0000881	
352	STR1251	Y-Strainer	Precision: 40 mesh	CF8	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	3"	0.5	32/42	2	180	Modentic	YF-150-I	PP22-0133-T-000412	00VM0000881	
353	STR1351	Y-Strainer	Precision: 40 mesh	CF8	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B36.19	2"	0.5	32/42	2	180	Modentic	YF-150-I	PP22-0133-T-000408	00VM0000468	
354	TCV1150	Temperature Control Valve	CV:47 Eff Area: 240 cm²	CF8M	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Flange	ASME B16.5 RF #150	2"	0.14	121	1	220	Samson	3241-1+3271+3725	PP22-0133-T-000103	00VQ0001094	
355	TCV1151	Temperature Control Valve	CV:95 Eff Area: 350 cm²	CF8M	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B16.5 RF #150	3"	0.5	32/42	1	220	Samson	3241-1+3271+3725	PP22-0133-T-000108	00VQ0000658	

356	TCV1250	Temperature Control Valve	CV:47 Eff Area: 240 cm ²	CF8M	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Flange	ASME B16.5 RF #150	2"	0.14	121	1	220	Samson	3241-1+3271+3725	PP22-0133-T-000103	00VQ0001094	
357	TCV1251	Temperature Control Valve	CV:95 Eff Area: 350 cm ²	CF8M	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B16.5 RF #150	3"	0.5	32/42	1	220	Samson	3241-1+3271+3725	PP22-0133-T-000108	00VQ0000658	
358	TCV1350	Temperature Control Valve	CV:30 Eff Area: 240cm ²	CF8M	Plant Steam	0.014	~2.67	PP22-0133-T 000006	Flange	ASME B16.5 RF #150	1.5"	0.14	121	1	220	Samson	3241-1+3271+3725	PP22-0133-T-000102	00VQ0001093	
359	TCV1351	Temperature Control Valve	CV:47 Eff Area: 240 cm ²	CF8M	PCWS	0.89	997	PP22-0133-T 000006	Flange	ASME B16.5 RF #150	2"	0.5	32/42	1	220	Samson	3241-1+3271+3725	PP22-0133-T-000103	00VQ0001094	
360	VE1150	Exhaust Valve	Exhaust	CF3M	PCWR	0.89	997	PP22-0133-T 000006	Thread	NPT	1/2"	0.5	32/42	1	150	Spirax sacro	AE36	PP22-0133-T-000572	00V20000046	
361	VE1250	Exhaust Valve	Exhaust	CF3M	PCWR	0.89	1000	PP22-0133-T 000006	Thread	NPT	1/2"	0.5	32/42	1	150	Spirax sacro	AE36	PP22-0133-T-000572	00V20000046	
362	VE1350	Exhaust Valve	Exhaust	CF3M	PCWR	0.89	1000	PP22-0133-T 000006	Thread	NPT	1/2"	0.5	32/42	1	150	Spirax sacro	AE36	PP22-0133-T-000572	00V20000046	
363	MV1159	Manual Ball Valve	ON/OFF	CF8	PSC	0.16	896	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	~0.14	121	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
364	MV1259	Manual Ball Valve	ON/OFF	CF8	PSC	0.16	896	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	~0.14	121	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
365	MV1359	Manual Ball Valve	ON/OFF	CF8	PSC	0.16	896	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	~0.14	121	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
366	MV1160	Manual Ball Valve	ON/OFF	CF8	DR	~1	~1000	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	ATM	20~95	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
367	MV1260	Manual Ball Valve	ON/OFF	CF8	DR	~1	~1000	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	ATM	20~95	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
368	MV1360	Manual Ball Valve	ON/OFF	CF8	DR	~1	~1000	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	ATM	20~95	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
369	CV2152	Check Valve	Swing type	CF8	PSC	0.16	896	PP22-0133-T 000006	Flange	ASME B16.5 150#	1"	~0.14	121	2	180	Modentic	SF-150	PP22-0133-T-000758	00VD0000817	
370	CV2252	Check Valve	Swing type	CF8	PSC	0.16	896	PP22-0133-T 000006	Flange	ASME B16.5 150#	1"	~0.14	121	2	180	Modentic	SF-150	PP22-0133-T-000758	00VD0000817	
371	CV2352	Check Valve	Swing type	CF8	PSC	0.16	896	PP22-0133-T 000006	Flange	ASME B16.5 150#	1"	~0.14	121	2	180	Modentic	SF-150	PP22-0133-T-000758	00VD0000817	
372	MV1161	Manual Ball Valve	ON/OFF	CF8	PCWS	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
373	MV1261	Manual Ball Valve	ON/OFF	CF8	PCWS	0.90	998	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
374	MV1361	Manual Ball Valve	ON/OFF	CF8	PCWS	0.90	998	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
375	MV1162	Manual Butterfly valve	N/A	CF8	PCWS	0.89	997	PP22-0133-T 000006	Wafer Flange	ASME B36.19	3"	0.5	32/42	1	80	Modentic	VF-765-I	PP22-0133-T-000347	00VB0001278	
376	MV1163	Manual Butterfly valve	N/A	CF8	PCWS	0.89	997	PP22-0133-T 000006	Wafer Flange	ASME B36.19	3"	0.5	32/42	1	80	Modentic	VF-765-I	PP22-0133-T-000347	00VB0001278	
377	MV1262	Manual Butterfly valve	N/A	CF8	PCWS	0.89	997	PP22-0133-T 000006	Wafer Flange	ASME B36.19	3"	0.5	32/42	1	80	Modentic	VF-765-I	PP22-0133-T-000347	00VB0001278	
378	MV1263	Manual Butterfly valve	N/A	CF8	PCWS	0.89	997	PP22-0133-T 000006	Wafer Flange	ASME B36.19	3"	0.5	32/42	1	80	Modentic	VF-765-I	PP22-0133-T-000347	00VB0001278	
379	MV1362	Manual Butterfly valve	N/A	CF8	PCWS	0.89	997	PP22-0133-T 000006	Wafer Flange	ASME B36.19	2"	0.5	32/42	1	80	Modentic	VF-765-I	PP22-0133-T-000026	00VB0001180	
380	MV1363	Manual Butterfly valve	N/A	CF8	PCWS	0.89	997	PP22-0133-T 000006	Wafer Flange	ASME B36.19	2"	0.5	32/42	1	80	Modentic	VF-765-I	PP22-0133-T-000026	00VB0001180	
381	MV1164	Manual Ball Valve	ON/OFF	CF8	PCWS	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
382	MV1264	Manual Ball Valve	ON/OFF	CF8	PCWS	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
383	MV1364	Manual Ball Valve	ON/OFF	CF8	PCWS	0.89	997	PP22-0133-T 000006	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
384	FV1801	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	City water	0.47	983	PP22-0133-T 000007	Butt Weld	ASME BPE	2"	0.5	50/60	2	180	Modentic	V-A58EB/MDNSII-105/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000563	00VC0005165	
385	FV1802	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	City water	0.47	983	PP22-0133-T 000007	Butt Weld	ASME BPE	2"	0.5	50/60	2	180	Modentic	V-A58EB/MDNSII-105/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000563	00VC0005165	
386	FV1803	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	City water	0.47	983	PP22-0133-T 000007	Butt Weld	ASME BPE	2"	0.5	50/60	2	180	Modentic	V-A58EB/MDNSII-105/EV61- 531MB1-24V/LSM-200-M2-2- G1/2"	PP22-0133-T-000563	00VC0005165	
387	MV1801	Manual Ball Valve	ON/OFF	CF8	Cooling water	0.014	~2.67	PP22-0133-T 000007	Butt Weld	ASME B36.19	2"	0.14/0.4	~152	1	150	Modentic	V-205B	PP22-0133-T-000075	00VC0001649	
388	MV1803	Manual Ball Valve	ON/OFF	CF3M	Clean Steam	0.01~0.1	1.672	PP22-0133-T 000007	Butt Weld	ASME BPE	3/4"	0.14	121	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
389	MV1804- FV1804	Block Valve	Failure position:NC	316L	PW	1	1000	PP22-0133-T 000007	Butt Weld	ASME BPE	2"-2"-1.5"- 0.5"	0.2~0.6	20±2	1	150	GEMU	M600 04-02.U5 F1(MG40/MG8,5059/5059/4059 /1559,1507) 9687 40Z 1 H/N 9601 8D 0 OTS 600 40M5M 600 8M54 1232000ZA103051110304+0324 2M147441C1010210	PP22-0133-T-000550	XP2231492V0002	

390	MV1805-FV1805	Block Valve	Failure position:NC	316L	PW	1	1000	PP22-0133-T 000007	Butt Weld	ASME BPE	2"-2"-1.5"- 0.5"	0.2~0.6	20±2	1	150	GEMU	M600 04-02.U5 F1(MG40/MG8,5059/5059/4059 /1559,1507) 9687 40Z 1 H/N 9601 8D 0 OTS 600 40M5M 600 8M54 1232000ZA103051110304+0324 2M147441C1010210	PP22-0133-T-000550	XP2231492V0002	
391	MV1806-FV1806	Block Valve	Failure position:NC	316L	PW	1	1000	PP22-0133-T 000007	Butt Weld	ASME BPE	2"-2"-1.5"- 0.5"	0.2~0.6	20±2	1	150	GEMU	M600 04-02.U5 F1(MG40/MG8,5059/5059/4059 /1559,1507) 9687 40Z 1 H/N 9601 8D 0 OTS 600 40M5M 600 8M54 1232000ZA103051110304+0324 2M147441C1010210	PP22-0133-T-000550	XP2231492V0002	
392	MV1807-FV1807	Block Valve	Failure position:NC	316L	HPW	1	1000	PP22-0133-T 000007	Butt Weld	ASME BPE	2"-2"-1.5"- 0.5"	0.2~0.6	85-95	1	150	GEMU	M600 04-02.U5 F1(MG40/MG8,5059/5059/4059 /1559,1507) 9687 40Z 1 H/N 9601 8D 0 OTS 600 40M5M 600 8M54 1232000ZA103051110304+0324 2M147441C1010210	PP22-0133-T-000550	XP2231492V0002	
393	MV1808-FV1808	Block Valve	Failure position:NC	316L	HPW	1	1000	PP22-0133-T 000007	Butt Weld	ASME BPE	2"-2"-1.5"- 0.5"	0.2~0.6	85-95	1	150	GEMU	M600 04-02.U5 F1(MG40/MG8,5059/5059/4059 /1559,1507) 9687 40Z 1 H/N 9601 8D 0 OTS 600 40M5M 600 8M54 1232000ZA103051110304+0324 2M147441C1010210	PP22-0133-T-000550	XP2231492V0002	
394	MV1809-FV1809	Block Valve	Failure position:NC	316L	HPW	1	1000	PP22-0133-T 000007	Butt Weld	ASME BPE	2"-2"-1.5"- 0.5"	0.2~0.6	85-95	1	150	GEMU	M600 04-02.U5 F1(MG40/MG8,5059/5059/4059 /1559,1507) 9687 40Z 1 H/N 9601 8D 0 OTS 600 40M5M 600 8M54 1232000ZA103051110304+0324 2M147441C1010210	PP22-0133-T-000550	XP2231492V0002	
395	ST1802	Steam Trap	130kg/h, ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T 000007	Tri-clamp	ASME BPE	1/2"	ATM	20~95	0.7	170	Spirax sacro	BTM7	PP22-0133-T-000121	00VJ0000018	
396	EV1810	ON/OFF Valve	ON/OFF	Die-cast aluminium	IA	0.019	2.68	PP22-0133-T 000007	Female Thread	G Thread	1"	0.14	40	1.6	60	FESTO	HEE-D-MAXI-24	PP22-0133-T-000570	00INA0000146	
397	EV1811	ON/OFF Valve	ON/OFF	Die-cast aluminium	IA	0.019	2.68	PP22-0133-T 000007	Female Thread	G Thread	1"	0.14	40	1.6	60	FESTO	HEE-D-MAXI-24	PP22-0133-T-000570	00INA0000146	
398	EV1812	ON/OFF Valve	ON/OFF	Die-cast aluminium	IA	0.019	2.68	PP22-0133-T 000007	Female Thread	G Thread	1"	0.14	40	1.6	60	FESTO	HEE-D-MAXI-24	PP22-0133-T-000570	00INA0000146	
399	EV1813	ON/OFF Valve	ON/OFF	Die-cast aluminium	IA	0.019	2.68	PP22-0133-T 000007	Female Thread	G Thread	1"	0.14	40	1.6	60	FESTO	HEE-D-MAXI-24	PP22-0133-T-000570	00INA0000146	
400	EV1814	ON/OFF Valve	ON/OFF	Die-cast aluminium	IA	0.019	2.68	PP22-0133-T 000007	Female Thread	G Thread	1"	0.14	40	1.6	60	FESTO	HEE-D-MAXI-24	PP22-0133-T-000570	00INA0000146	
401	MV1810	Manual Ball Valve	ON/OFF	CF3M	IA	0.019	2.68/8.9	PP22-0133-T 000007	Butt Weld	ASME BPE	1"	0.14/0.6	40	1	150	Modentic	V-A58EB	PP22-0133-T-000568	00VC0005172	
402	MV1811	Manual Ball Valve	ON/OFF	CF3M	IA	0.019	2.68/8.9	PP22-0133-T 000007	Butt Weld	ASME BPE	1"	0.14/0.6	40	1	150	Modentic	V-A58EB	PP22-0133-T-000568	00VC0005172	
403	MV1812	Manual Ball Valve	ON/OFF	CF3M	IA	0.019	2.68/8.9	PP22-0133-T 000007	Butt Weld	ASME BPE	1"	0.14/0.6	40	1	150	Modentic	V-A58EB	PP22-0133-T-000568	00VC0005172	
404	MV1813	Manual Ball Valve	ON/OFF	CF3M	Clean Steam	0.019	1.672	PP22-0133-T 000007	Butt Weld	ASME BPE	3/4"	0.14	121	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
405	ST1803	Steam Trap	130kg/h, ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T 000007	Tri-clamp	ASME BPE	1/2"	ATM	20~95	0.7	170	Spirax sacro	BTM7	PP22-0133-T-000121	00VJ0000018	
406	CV1701	Check Valve	Cone	CPVC	C	TBD	TBD	PP22-0133-T 000008	Thread	NPTF	1"	0.2~0.4	AMB	1	120	GF	163 561 114	PP22-0133-T-000606	00VD0001375	
407	CV1801	Check Valve	Cone	CPVC	C	TBD	TBD	PP22-0133-T 000008	Thread	NPTF	1"	0.2~0.4	AMB	1	120	GF	163 561 114	PP22-0133-T-000606	00VD0001375	
408	CV1901	Check Valve	Cone	CPVC	C	TBD	TBD	PP22-0133-T 000008	Thread	NPTF	1"	0.2~0.4	AMB	1	120	GF	163 561 114	PP22-0133-T-000606	00VD0001375	
409	FV1819	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T 000008	Butt Weld	ASME BPE	2"	ATM	20~95	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
410	FV1820	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T 000008	Butt Weld	ASME BPE	2"	ATM	20~95	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
411	FV1821	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	DR	~1	~1000	PP22-0133-T 000008	Butt Weld	ASME BPE	2"	ATM	20~95	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	

412	FV1837	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	VC	0.01	1.29	PP22-0133-T-000008	Butt Weld	ASME BPE	2"	-1	20~40	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
413	FV1838	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	VC	0.01	1.29	PP22-0133-T-000008	Butt Weld	ASME BPE	2"	-1	20~40	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
414	FV1839	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	VC	0.01	1.29	PP22-0133-T-000008	Butt Weld	ASME BPE	2"	-1	20~40	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
415	FV1840	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	DR	~1	~1000	PP22-0133-T-000008	Butt Weld	ASME BPE	1/2"	ATM	20~95	2	180	Modentic	V-A58EB/MDNSII-52/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000559	00VC0005337	
416	FV1841	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	DR	~1	~1000	PP22-0133-T-000008	Butt Weld	ASME BPE	1/2"	ATM	20~95	2	180	Modentic	V-A58EB/MDNSII-52/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000559	00VC0005337	
417	FV1842	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	DR	~1	~1000	PP22-0133-T-000008	Butt Weld	ASME BPE	1/2"	ATM	20~95	2	180	Modentic	V-A58EB/MDNSII-52/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000559	00VC0005337	
418	FV1843	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPR	1	1000	PP22-0133-T-000008	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
419	FV1844	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPR	1	1000	PP22-0133-T-000008	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
420	FV1845	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	CIPR	1	1000	PP22-0133-T-000008	Butt Weld	ASME BPE	2"	0.2~0.8	60~80	1	135	NEUMO	360258582/2	PP22-0133-T-000028	00VB0002071	
421	FV1846	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	Exhaust gas	0.021	1.09	PP22-0133-T-000008	Butt Weld	ASME B36.19	2"	0.01	~99	1	150	Modentic	V-258B/MDNSII-92/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000069	00VC0004479	
422	FV1856	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	Exhaust gas	0.021	1.09	PP22-0133-T-000008	Butt Weld	ASME B36.19	2"	0.01	~99	1	150	Modentic	V-258B/MDNSII-92/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000069	00VC0004479	
423	FV1857	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T-000008	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-258B/MDNSII-63/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000068	00VC0004505	
424	FV1865	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	DR	~1	~1000	PP22-0133-T-000008	Butt Weld	ASME BPE	2"	ATM	20~95	2	180	Modentic	V-A58EB/MDNSII-105/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000563	00VC0005165	
425	FV1866	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	DR	~1	~1000	PP22-0133-T-000008	Butt Weld	ASME BPE	2"	ATM	20~95	2	180	Modentic	V-A58EB/MDNSII-105/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000563	00VC0005165	
426	FV1867	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	DR	~1	~1000	PP22-0133-T-000008	Butt Weld	ASME BPE	2"	ATM	20~95	2	180	Modentic	V-A58EB/MDNSII-105/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000563	00VC0005165	
427	MV1727	Manual Diaphragm Valve	ON/OFF	1.4435 Casting	C	TBD	TBD	PP22-0133-T-000008	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	0.6	150	GEMU	673 25D 59 C3 5M 0 2TS 1507(S1=S2=10)	PP22-0133-T-000553	00VA0001678	
428	MV1728	Manual Ball Valve	ON/OFF	CF3M	C	TBD	TBD	PP22-0133-T-000008	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB	PP22-0133-T-000568	00VC0005172	
429	MV1729	Manual Ball Valve	ON/OFF	CF3M	C	TBD	TBD	PP22-0133-T-000008	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB	PP22-0133-T-000568	00VC0005172	
430	MV1825	Manual Ball Valve	ON/OFF	CF8	PCWS	0.89	997	PP22-0133-T-000008	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
431	MV1826	Manual Ball Valve	ON/OFF	CF8	PCWS	0.89	997	PP22-0133-T-000008	Butt Weld	ASME B36.19	1"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000072	00VC0004173	
432	MV1827	Manual Diaphragm Valve	ON/OFF	1.4435 Casting	C	TBD	TBD	PP22-0133-T-000008	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	0.6	150	GEMU	673 25D 59 C3 5M 0 2TS 1507(S1=S2=10)	PP22-0133-T-000553	00VA0001678	
433	MV1828	Manual Ball Valve	ON/OFF	CF3M	C	TBD	TBD	PP22-0133-T-000008	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB	PP22-0133-T-000568	00VC0005172	
434	MV1829	Manual Ball Valve	ON/OFF	CF3M	C	TBD	TBD	PP22-0133-T-000008	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB	PP22-0133-T-000568	00VC0005172	
435	MV1927	Manual Diaphragm Valve	ON/OFF	1.4435 Casting	C	TBD	TBD	PP22-0133-T-000008	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	0.6	150	GEMU	673 25D 59 C3 5M 0 2TS 1507(S1=S2=10)	PP22-0133-T-000553	00VA0001678	
436	MV1928	Manual Ball Valve	ON/OFF	CF3M	C	TBD	TBD	PP22-0133-T-000008	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB	PP22-0133-T-000568	00VC0005172	
437	MV1929	Manual Ball Valve	ON/OFF	CF3M	C	TBD	TBD	PP22-0133-T-000008	Butt Weld	ASME BPE	1"	0.2~0.4	AMB	2	180	Modentic	V-A58EB	PP22-0133-T-000568	00VC0005172	
438	PCV1801	Pressure Control Valve	CV:20 Eff Area: 240cm ²	CF8M	VG1	0.021	1.09	PP22-0133-T-000008	Flange	ASME B16.5 RF #150	1.5"	0.01	~99	1	220	Samson	3241-1+3271+3725	PP22-0133-T-000101	00VQ0000165	
439	PU1702	Electric Diaphragm Pump	Power: 0.85kW	316 SS	C	TBD	TBD	PP22-0133-T-000008	Tri-clamp	ASME BPE	1.5"	0.2~0.4	AMB	1	99	GRACO	HE30-0065	PP22-0133-T-000427	XP2231492AU0001	
440	PU1801	Liquid Ring Vacuum Pump	Power: 11kW Rotary speed: 1500rpm	1.4408	VC	0.01	1.29	PP22-0133-T-000008	G	DIN 2501 PN10	2.5"	-0.9	20~40	-0.1~1	150	SIHI	LELC 425 A1 XAE 4B 0	PP22-0133-T-000395	XP2231492AJ0001	
441	PU1802	Electric Diaphragm Pump	Power: 0.85kW	316 SS	C	TBD	TBD	PP22-0133-T-000008	Tri-clamp	ASME BPE	1.5"	0.2~0.4	AMB	1	99	GRACO	HE30-0065	PP22-0133-T-000427	XP2231492AU0001	

442	PU1902	Electric Diaphragm Pump	Power: 0.85kW	316 SS	C	TBD	TBD	PP22-0133-T-000008	Tri-clamp	ASME BPE	1.5"	0.2~0.4	AMB	1	99	GRACO	HE30-0065	PP22-0133-T-000427	XP2231492AU0001	
443	ST1807	Steam Trap	130kg/h, ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T-000008	Tri-clamp	ASME BPE	1/2"	ATM	20~95	0.7	170	Spirax sacro	BTM7	PP22-0133-T-000121	00VJ0000018	
444	ST1808	Steam Trap	130kg/h, ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T-000008	Tri-clamp	ASME BPE	1/2"	ATM	20~95	0.7	170	Spirax sacro	BTM7	PP22-0133-T-000121	00VJ0000018	
445	ST1809	Steam Trap	130kg/h, ΔP=1barg	316L	DR	~1	~1000	PP22-0133-T-000008	Tri-clamp	ASME BPE	1/2"	ATM	20~95	0.7	170	Spirax sacro	BTM7	PP22-0133-T-000121	00VJ0000018	
446	STR1801	Y-Strainer	Precision: 40 mesh	CF8	PCWS	0.89	997	PP22-0133-T-000008	Flange	ASME B36.19	1"	0.5	32/42	2	180	Modentic	YF-150-I	PP22-0133-T-000599	00VM0000466	
447	TK1801	Dust Trap	Volume :16.8L	316L	CIP/VC	1	1000	PP22-0133-T-000008	N/A	N/A	N/A	-0.09~0.14	20~126	-0.1/0.2	150	Local	N/A	PP22-0133-T-000394	XP2231492AT0005	
448	TK1802	Dust Trap	Volume :16.8L	316L	CIP/VC	1	1000	PP22-0133-T-000008	N/A	N/A	N/A	-0.09~0.14	20~126	-0.1/0.2	150	Local	N/A	PP22-0133-T-000394	XP2231492AT0005	
449	TK1803	Dust Trap	Volume :16.8L	316L	CIP/VC	1	1000	PP22-0133-T-000008	N/A	N/A	N/A	-0.09~0.14	20~126	-0.1/0.2	150	Local	N/A	PP22-0133-T-000394	XP2231492AT0005	
450	FH1702	Flexible Hose	lentgh:1800mm	316L	C	TBD	TBD	PP22-0133-T-000008	Tri-clamp	ASME BPE	1"	0.2~0.4	AMB	-0.09~1	-40~200	Pharmflex	16SS4044040-1800-0	PP22-0133-T-002206	00JAN0000727	
451	FH1802	Flexible Hose	lentgh:1800mm	316L	C	TBD	TBD	PP22-0133-T-000008	Tri-clamp	ASME BPE	1"	0.2~0.4	AMB	-0.09~1	-40~200	Pharmflex	16SS4044040-1800-0	PP22-0133-T-002206	00JAN0000727	
452	FH1902	Flexible Hose	lentgh:1800mm	316L	C	TBD	TBD	PP22-0133-T-000008	Tri-clamp	ASME BPE	1"	0.2~0.4	AMB	-0.09~1	-40~200	Pharmflex	16SS4044040-1800-0	PP22-0133-T-002206	00JAN0000727	
453	CV1401	Check Valve	Swing type	CF8	PCWR	0.89	997	PP22-0133-T-000009	Flange	ASME B16.5 150#	3/4"	0.5	32/42	2	180	Modentic	SF-150	PP22-0133-T-000618	00VD0001118	
454	CV1402	Check Valve	Spring Type	CF3M	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Tri-clamp	ASME BPE	3/4"	0.14/0.6	40	1	150	NEUMO	45C-6-0.75-E	PP22-0133-T-000584	00VD0001170	
455	CV1501	Check Valve	Swing type	CF8	PCWR	0.89	997	PP22-0133-T-000009	Flange	ASME B16.5 150#	3/4"	0.5	32/42	2	180	Modentic	SF-150	PP22-0133-T-000618	00VD0001118	
456	CV1502	Check Valve	Spring Type	CF3M	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Tri-clamp	ASME BPE	3/4"	0.14/0.6	40	1	150	NEUMO	45C-6-0.75-E	PP22-0133-T-000584	00VD0001170	
457	CV1601	Check Valve	Swing type	CF8	PCWR	0.89	997	PP22-0133-T-000009	Flange	ASME B16.5 150#	3/4"	0.5	32/42	2	180	Modentic	SF-150	PP22-0133-T-000618	00VD0001118	
458	CV1602	Check Valve	Spring Type	CF3M	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Tri-clamp	ASME BPE	3/4"	0.14/0.6	40	1	150	NEUMO	45C-6-0.75-E	PP22-0133-T-000584	00VD0001170	
459	FV1401	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T-000009	Butt Weld	ASME B36.19	3/4"	0.5	32/42	1	150	Modentic	V-258B/MDNSII-63/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000554	00VC0005334	
460	FV1402	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.14/0.6	40	2	180	Modentic	V-A58EB/MDNSII-63/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000560	00VC0005160	
461	FV1501	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T-000009	Butt Weld	ASME B36.19	3/4"	0.5	32/42	1	150	Modentic	V-258B/MDNSII-63/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000554	00VC0005334	
462	FV1502	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.14/0.6	40	2	180	Modentic	V-A58EB/MDNSII-63/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000560	00VC0005160	
463	FV1601	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF8	PCWS	0.89	997	PP22-0133-T-000009	Butt Weld	ASME B36.19	3/4"	0.5	32/42	1	150	Modentic	V-258B/MDNSII-63/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000554	00VC0005334	
464	FV1602	Pneumatic Ball Valve	Failure Position:NC Double Feedback	CF3M	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.14/0.6	40	2	180	Modentic	V-A58EB/MDNSII-63/EV61-531MB1-24V/LSM-200-M2-2-G1/2"	PP22-0133-T-000560	00VC0005160	
465	MV1401	Manual Ball Valve	ON/OFF	CF3M	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.14/0.6	40	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
466	MV1402	Manual Ball Valve	ON/OFF	CF3M	PW	1	1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.2~0.6	20±2	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
467	MV1403	Manual Ball Valve	ON/OFF	CF3M	PW	1	1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.2~0.6	20±2	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
468	MV1404	Manual Ball Valve	ON/OFF	CF3M	PW	1	1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.2~0.6	20±2	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
469	MV1405	Manual Ball Valve	ON/OFF	CF3M	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Butt Weld	ASME BPE	1/2"	0.14/0.6	40	2	180	Modentic	V-A58EB	PP22-0133-T-000566	00VC0005173	
470	MV1406	Manual Ball Valve	ON/OFF	CF8	PCWS	0.89	997	PP22-0133-T-000009	Butt Weld	ASME B36.19	3/4"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000557	00VC0004170	
471	MV1407	Manual Ball Valve	ON/OFF	CF3M	DR	~1	~1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	ATM	20~95	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
472	MV1408	Manual Ball Valve	ON/OFF	CF3M	DR	~1	~1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	ATM	20~95	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	

473	MV1501	Manual Ball Valve	ON/OFF	CF3M	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.14/0.6	40	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
474	MV1502	Manual Ball Valve	ON/OFF	CF3M	PW	1	1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.2~0.6	20±2	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
475	MV1503	Manual Ball Valve	ON/OFF	CF3M	PW	1	1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.2~0.6	20±2	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
476	MV1504	Manual Ball Valve	ON/OFF	CF3M	PW	1	1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.2~0.6	20±2	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
477	MV1505	Manual Ball Valve	ON/OFF	CF3M	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Butt Weld	ASME BPE	1/2"	0.14/0.6	40	2	180	Modentic	V-A58EB	PP22-0133-T-000566	00VC0005173	
478	MV1506	Manual Ball Valve	ON/OFF	CF8	PCWS	0.89	997	PP22-0133-T-000009	Butt Weld	ASME B36.19	3/4"	0.5	32/42	1	150	Modentic	V-205B	PP22-0133-T-000557	00VC0004170	
479	MV1507	Manual Ball Valve	ON/OFF	CF3M	DR	~1	~1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	ATM	20~95	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
480	MV1508	Manual Ball Valve	ON/OFF	CF3M	DR	~1	~1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	ATM	20~95	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
481	MV1601	Manual Ball Valve	ON/OFF	CF3M	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.14/0.6	40	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
482	MV1602	Manual Ball Valve	ON/OFF	CF3M	PW	1	1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.2~0.6	20±2	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
483	MV1603	Manual Ball Valve	ON/OFF	CF3M	PW	1	1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.2~0.6	20±2	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
484	MV1604	Manual Ball Valve	ON/OFF	CF3M	PW	1	1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	0.2~0.6	20±2	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
485	MV1605	Manual Ball Valve	ON/OFF	CF3M	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Butt Weld	ASME BPE	1/2"	0.14/0.6	40	2	180	Modentic	V-A58EB	PP22-0133-T-000566	00VC0005173	
486	MV1606	Manual Ball Valve	ON/OFF,Flat-top Height, H=100mm	CF8	PCWS	0.89	997	PP22-0133-T-000009	Butt Weld	ASME B36.19	3/4"	0.5	32/42	1	150	Modentic	V-258B	PP22-0133-T-002869	00VC0005689	
487	MV1607	Manual Ball Valve	ON/OFF	CF3M	DR	~1	~1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	ATM	20~95	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
488	MV1608	Manual Ball Valve	ON/OFF	CF3M	DR	~1	~1000	PP22-0133-T-000009	Butt Weld	ASME BPE	3/4"	ATM	20~95	2	180	Modentic	V-A58EB	PP22-0133-T-000567	00VC0005166	
489	PRV1401	Pressure Reduce Valve	Set Point: 0.3barg	Aluminium	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Female Thread	G Thread	1/4"	0.14/0.6	40	0.1-1.2	-10-60	Festo	LRP-1/4-2,5	PP22-0133-T-000622	XP2231492AT0020	
490	PRV1501	Pressure Reduce Valve	Set Point: 0.3barg	Aluminium	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Female Thread	G Thread	1/4"	0.14/0.6	40	0.1-1.2	-10-60	Festo	LRP-1/4-2,5	PP22-0133-T-000622	XP2231492AT0020	
491	PRV1601	Pressure Reduce Valve	Set Point: 0.3barg	Aluminium	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Female Thread	G Thread	1/4"	0.14/0.6	40	0.1-1.2	-10-60	Festo	LRP-1/4-2,5	PP22-0133-T-000622	XP2231492AT0020	
492	PSV1401	Pressure Safety Valve	Set Pressure: 2.4barg Flow: 133m3/h	316L	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Tri-clamp	ASME BPE	1"-1.5"	0.14/0.6	40	1.6	180	Leser	4834.7702	PP22-0133-T-000332	00VH0000624	
493	PSV1501	Pressure Safety Valve	Set Pressure: 2.4barg Flow: 133m3/h	316L	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Tri-clamp	ASME BPE	1"-1.5"	0.14/0.6	40	1.6	180	Leser	4834.7702	PP22-0133-T-000332	00VH0000624	
494	PSV1601	Pressure Safety Valve	Set Pressure: 2.4barg Flow: 133m3/h	316L	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Tri-clamp	ASME BPE	1"-1.5"	0.14/0.6	40	1.6	180	Leser	4834.7702	PP22-0133-T-000332	00VH0000624	
495	PU1401	Centrifugal Pump	sealing water	304 SS	PW	1	1000	PP22-0133-T-000009	Female Thread	Rp	3/4"	0.2~0.6	20±2	1	35	Grundfos	CM 1-2 A-R-I-E-AQQE F-A-A-N	PP22-0133-T-000091	XP2231492AA0004	
496	PU1501	Centrifugal Pump	sealing water	304 SS	PW	1	1000	PP22-0133-T-000009	Female Thread	Rp	3/4"	0.2~0.6	20±2	1	35	Grundfos	CM 1-2 A-R-I-E-AQQE F-A-A-N	PP22-0133-T-000091	XP2231492AA0004	
497	PU1601	Centrifugal Pump	sealing water	304 SS	PW	1	1000	PP22-0133-T-000009	Female Thread	Rp	3/4"	0.2~0.6	20±2	1	35	Grundfos	CM 1-2 A-R-I-E-AQQE F-A-A-N	PP22-0133-T-000091	XP2231492AA0004	
498	STR1401	Y-Strainer	Precision: 40 mesh	CF8	PCWS	0.89	977	PP22-0133-T-000009	Flange	ASME B36.19	3/4"	0.5	32/42	2	180	Modentic	YF-150-I	PP22-0133-T-000598	00VM0000465	
499	STR1402	Fine Filter	Precision: 0.01µm	die cast zinc	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Female Thread	ASME BPE	1/4"	0.14	40	0.2-1.2	-10-60	FESTO	LFMA-1/4-D-MIDI-A	PP22-0133-T-000625	XP2231492AT0019	
500	STR1501	Y-Strainer	Precision: 40 mesh	CF8	PCWS	0.89	977	PP22-0133-T-000009	Flange	ASME B36.19	3/4"	0.5	32/42	2	180	Modentic	YF-150-I	PP22-0133-T-000598	00VM0000465	
501	STR1502	Fine Filter	Precision: 0.01µm	die cast zinc	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Female Thread	ASME BPE	1/4"	0.14	40	0.2-1.2	-10-60	FESTO	LFMA-1/4-D-MIDI-A	PP22-0133-T-000625	XP2231492AT0019	
502	STR1601	Y-Strainer	Precision: 40 mesh	CF8	PCWS	0.89	977	PP22-0133-T-000009	Flange	ASME B36.19	3/4"	0.5	32/42	2	180	Modentic	YF-150-I	PP22-0133-T-000598	00VM0000465	
503	STR1602	Fine Filter	Precision: 0.01µm	die cast zinc	CCA	0.019	2.68/8.9	PP22-0133-T-000009	Female Thread	ASME BPE	1/4"	0.14	40	0.2-1.2	-10-60	FESTO	LFMA-1/4-D-MIDI-A	PP22-0133-T-000625	XP2231492AT0019	
504	TK1401	Sealing Water Tank	volume:15L	S31603	PW	1	1000	PP22-0133-T-000009	N/A	N/A	N/A	0~0.2	20~55	0.25	90	Fulong	N/A	PP22-0133-T-001982	N/A	
505	TK1501	Sealing Water Tank	volume:15L	S31603	PW	1	1000	PP22-0133-T-000009	N/A	N/A	N/A	0~0.2	20~55	0.25	90	Fulong	N/A	PP22-0133-T-001982	N/A	

506	TK1601	Sealing Water Tank	volume:15L	S31603	PW	1	1000	PP22-0133-T-000009	N/A	N/A	N/A	0~0.2	20~55	0.25	90	Fulong	N/A	PP22-0133-T-001982	N/A	
507	TK1801	Separator	/	304	VG1	0.021	1.09	PP22-0133-T-000008	/	/	/	0.01	~99	0.2	100	SIHI	/	/	/	
508	CV1303	Check Valve	Spring Type	316L	Clean Steam	0.01~0.1	1.672	PP22-0133-T-000005	Tri-clamp	ASME BPE	1"	0.14	121	1	150	NEUMO	45C-6-1.0-E	PP22-0133-T-001775	00VD0001171	
509	CV1203	Check Valve	Spring Type	316L	Clean Steam	0.01~0.1	1.672	PP22-0133-T-000005	Tri-clamp	ASME BPE	2"	0.14	121	1	150	NEUMO	45C-6-2-E	PP22-0133-T-002601	00VD0001173	
510	CV1103	Check Valve	Spring Type	316L	Clean Steam	0.01~0.1	1.672	PP22-0133-T-000005	Tri-clamp	ASME BPE	2"	0.14	121	1	150	NEUMO	45C-6-2-E	PP22-0133-T-002601	00VD0001173	
511	MV1306	Manual Diaphragm Valve	ON/OFF	1.4435 Casting	Clean Steam	0.01~0.1	1.672	PP22-0133-T-000005	Butt Weld	ASME BPE	3/4"	0.14	121	0.6	150	GEMU	612 20D 59 C3 54 0 1TS 1507(S1=S2=10)	PP22-0133-T-000046	00VA0001867	
512	MV1206	Manual Diaphragm Valve	ON/OFF	1.4435 Casting	Clean Steam	0.01~0.1	1.672	PP22-0133-T-000005	Butt Weld	ASME BPE	3/4"	0.14	121	0.6	150	GEMU	612 20D 59 C3 54 0 1TS 1507(S1=S2=10)	PP22-0133-T-000046	00VA0001867	
513	MV1106	Manual Diaphragm Valve	ON/OFF	1.4435 Casting	Clean Steam	0.01~0.1	1.672	PP22-0133-T-000005	Butt Weld	ASME BPE	3/4"	0.14	121	0.6	150	GEMU	612 20D 59 C3 54 0 1TS 1507(S1=S2=10)	PP22-0133-T-000046	00VA0001867	
514	STR1302	L-Filter	Precision: 160 mesh/35mesh	1.4404	FM	1	1000	PP22-0133-T-000005	Tri-clamp	ASME BPE	3"	0.2~0.8	60~80	1	135	NEUMO	B-I-S-O Speical filter L-3" 160mesh/35mesh	PP22-0133-T-002161	XP2231492AT0031	公用
515	STR1202																			
516	STR1102																			
517	F1303	Filter-Housing	Spec: 10"	316L	FM	1	1000	PP22-0133-T-000010	Tri-clamp	ASME BPE	2"	0.2~0.8	60~80	1	135	PALL	SASE031G31HV	PP22-0133-T-002162	XP2231492AT0034	公用
518	F1203																			
519	F1103																			
520	F1303	Filter Cartridge	Spec: 10" three Pore size:0.2um	316L	FM	1	1000	PP22-0133-T-000010	N/A	N/A	10"	0.2~0.8	60~80	1	135	PALL	AB1EKV7PH1	PP22-0133-T-002170	XP2231492AT0031	公用
521	F1203																			
522	F1103																			
523	FV1192	Pneumatic Butterfly Valve	Failure Position:NC Double Feedback	316L	Product	100	1000	PP22-0133-T-000005	Butt Weld	ASME BPE	3"	0.2~0.8	AMB	1	135	NEUMO	360260582/2	PP22-0133-T-000030	00VB0002073	
524	MV1266	Manual Ball Valve	ON/OFF	CF8M	PCWS	0.89	997	PP22-0133-T-000006	Flange	ASME B36.19	3"	0.5	32/42	2	200	Modentic	MD-52-150	PP22-0133-T-003156	00VC0002121	