

CONTROL VALVES

Sr. No.	Description	Model / Brand	Quantity Required
1	Control Valve with actuator and positioner for steam (1") (Specification attached at page 1/3)	Valtek/Fisher or equivalent	03 (No.)
2	Control Valve with actuator and positioner for compressed air {1/2"} (Specification attached at page 2/3)		02 (No.)
3	Control Valve (3 way) with actuator and positioner for Vacuum (Air) (1/2") (Specification attached at page 3/3)		01 (No.)

PROJECT				DATA SHEET				OF					
UNIT				SPEC									
P.O.				TAG									
ITEM				DWG									
CONTRACT				SERVICE									
*MFR. SERIAL													
1	Fluid	Steam line for heating			Crit Press Pc								
2	SERVICE CONDITION	Flow Rate	Units	Max	Norm	Min	Shut-Off						
3		Flow Rate	lb/hr	1500	1000	-	-						
4		Inlet Pressure	Bar	9	8	-	-						
5		Outlet Pressure	Bar	8	7	-	-						
6		Inlet Temperature	°C	175	170	-	-						
7		Spec Wt / Spec Grav / Mol Wt				-	-						
8		Viscosity / Spec Heats Ratio				-	-						
9		Vapour Pressure Pv				-	-						
10		*Required Cv				-	-						
11		*Travel	%				0						
12		Allowable / *Predicated SPL	dBA	/	/	/	-						
13													
14	LINE	Pipe Line Size & Schedule	In Out	DN 25, 40s	53	*TYPE Pneumatic Piston, double acting, Cylindrical							
15				DN 25, 40s	54	*Mfr. & Model Valtek/Fisher or Equivalent							
16		Pipe Line Insulation		Glass wool	55	*Size							
17	VALVE BODY / BONNET	*Type		Single Seat Globe	56	On/Off Regulating							
18		*Size	1"	ANSI Class	57	Spring Action Open/Close Close also should be field reversible							
19		*Max Press/ Temp		10 Bar/180 °C	58	*Max Allowable Pressure 10.3 Barg							
20		*Mfr. & Model		Valtek/Fisher or Equivalent	59	*Min Required Pressure 2.8 Barg							
21		*Body/Bonnet Matl		SS-304L/SS-316L	60	Available Supply Pressure							
22		*Liner Material/ID			61	Max 6 Bar Min 4 Bar							
23		End In		Integral Flanged	62	*Bench Range							
24		Connection out		Integral Flanged	63	Actuator Orientation Vertical							
25		Flg Face Finish		Raised Face	64	Hand Wheel Type Side mounted							
26		End Ext/Matl			65	Air Failure Valve Yes, Fail safe Close							
27		*Flow Direction			66								
28		*Type of Bonnet		Standard	67								
29	Lub & Iso Valve		Lube	68									
30				69									
31				70									
32	TRIM	*Type		Full area, double-top stem guided	71	Input Signal 4-20 mA							
33		*Size		Rated Travel	72	*Type Analog with I/P							
34		*Characteristic		Linear	73	*Mfr. & Model Valtek/Fisher only							
35		*Balanced/Unbalanced		Un-balanced	74	*On Iner Signal Output Iner/Deer							
36		*Rated Cv		F _L X _T	75	Gauges Yes Bypass							
37		*Plug/Rail/Disk Material		SS-304L/SS-316L	76	*Cam Characteristic Linear							
38		*Seat Material		SS-304L/SS-316L	77	Type Quan							
39		*Cage/Guide Material			78	*Mfr. & Model							
40		*Stem Material		SS-304L/SS-316L	79	Contacts/ Rating							
41					80	Actuation Points							
42					81								
43		SPECIALS / ACCESSORIES	Position Feedback			82	*Mfr. & Model						
44	Output signal: 4 to 20 mA				83	*Set Pressure							
45	Position transmitter: Analog 4 to 20 mA				84	Filter Gauge							
46	Mouting: Side mouting on the valve				85	*Hydro Pressure							
47					86	ANSI / FCI Leakage Class Class IV							
48					87								
49					88								
50					89								
51					90								
52					91								
53					92								
54					93								
55				94									
56				95									
57				96									
58				97									
59				98									
60				99									
61				100									
62				101									
63				102									
64				103									
65				104									
66				105									
67				106									
68				107									
69				108									
70				109									
71				110									
72				111									
73				112									
74				113									
75				114									
76				115									
77				116									
78				117									
79				118									
80				119									
81				120									
82				121									
83				122									
84				123									
85				124									
86				125									
87				126									
88				127									
89				128									
90				129									
91				130									
92				131									
93				132									
94				133									
95				134									
96				135									
97				136									
98				137									
99				138									
100				139									
101				140									
102				141									
103				142									
104				143									
105				144									
106				145									
107				146									
108				147									
109				148									
110				149									
111				150									
112				151									
113				152									
114				153									
115				154									
116				155									
117				156									
118				157									
119				158									
120				159									
121				160									
122				161									
123				162									
124				163									
125				164									
126				165									
127				166									
128				167									
129				168									
130				169									
131				170									
132				171									
133				172									
134				173									
135				174									
136				175									
137				176									
138				177									
139				178									
140				179									
141				180									
142				181									
143				182									
144				183									
145				184									
146				185									
147				186									
148				187									
149				188									
150				189									
151				190									
152				191									
153				192									
154				193									
155				194									
156				195									
157				196									
158				197									
159				198									
160				199									
161				200									
162				201									
163				202									
164				203									
165				204									
166				205									
167				206									
168				207									
169				208									
170				209									
171				210									
172				211									
173				212									
174				213									
175				214									
176				215									
177				216									
178				217									
179				218									
180				219									
181				220									
182				221									
183				222									
184				223									
185				224									
186				225									
187				226									
188				227									
189				228									
190				229									
191				230									
192				231									
193				232									
194				233									
195				234									
196				235									
197				236									
198				237									
199				238									
200				239									
201				240									
202				241									
203				242									
204				243									
205				244									
206				245									
207				246									
208				247									
209				248									
210				249									
211				250									
212				251									
213				252									
214				253									
215				254									
216				255									
217				256									
218				257									
219				258									
220				259									
221				260									
222				261									
223				262									
224				263									
225				264									
226				265									
227				266									
228				267									
229				268									
230				269									
231				270									
232				271									
233				272									
234				273									
235				274									
236				275									
237				276									
238				277									

PROJECT				DATA SHEET				Of		
UNIT				SPEC						
P.O.				TAG						
ITEM				DWG						
CONTRACT				SERVICE						
*MFR. SERIAL										
1	Fluid	Compressed Air			Crit Press Pc					
2	SERVICE CONDUCTION		Units	Max	Norm	Min	Shut-Off			
3		Flow Rate	m ³ /hr	80	60	-	-			
4		Inlet Pressure	Bar	8	7	-	-			
5		Outlet Pressure	Bar	7.8	6.8	-	-			
6		Inlet Temperature	°C	40	35	-	-			
7		Spec Wt / Spec Grav / Mol Wt				-	-			
8		Viscosity / Spec Heats Ratio				-	-			
9		Vapour Pressure Pv				-	-			
10		*Required Cv				-	-			
11		*Travel	%			-	-	0		
12	Allowable / *Predicated SPL	dBA	/	/	/	/	-			
13										
14	LINE	Pipe Line Size & Schedule	In Out	DN 15, 40s	53					
15				DN 15, 40s	54					
16		Pipe Line Insulation		Nil	55					
17	VALVE BODY / BONNET	*Type		Single Seat Globe	56					
18		*Size	0.5"	ANSI Class	57					
19		*Max Press/ Temp		2 Bar/40 °C	58					
20		*Mfr. & Model		Valve/Piston of equivalent	59					
21		*Body/Bonnet Matl		SS-304/SS-316L	60					
22		*Liner Metrial/ID			61					
23		Rnd	In	Integral Flanged	62					
24		Connection	out	Integral Flanged	63					
25		Flg Face Finish		Raised Face	64					
26		End Ext/Matl			65					
27	*Flow Direction			66						
28	*Type of Bonnet		Standard	67						
29	Lub & Iso Valve		Lube	68						
30	*Packing Material			69						
31	*Packing Type			70						
32	TRIM	*Type		Full area, double-top stem guided	71					
33		*Size		Rated Travel	72					
34		*Characteristic		Linear	73					
35		*Balanced/Unbalanced		Un-balanced	74					
36		*Rated Cv	F _L	X _T	75					
37		*Plug/Ball/Disk Material		SS-304/SS-316L	76					
38		*Seat Material		SS-304/SS-316L	77					
39		*Cage/Guide Material			78					
40		*Stem Material		SS-304/SS-316L	79					
41					80					
42	SPECIALS / ACCESSORIES	Position Feedback			81					
43		Output signal: 4 to 20 mA			82					
44		Position transmitter: Analog 4 to 20 mA			83					
45		Mounting: Side mounting on the valve			84					
46					85					
47					86					
48										
49										
50										
51										
52										
53	ACTUATOR	*TYPE	Pneumatic Piston, double acting, Cylindrical							
54		*Mfr. & Model	Valve/Piston of equivalent							
55		*Size								
56		On/Off	Regulating							
57		Spring Action Open/Close	Close also should be Field reversible							
58		*Max Allowable Pressure	10.3 Barg							
59		*Min Required Pressure	2.8 Barg							
60		Available Supply Pressure								
61		Max	6 Bar	Min	4 Bar					
62		*Bench Range								
63	Actuator Orientation	Vertical								
64	Hand/Wheel Type	Side mounted								
65	Air Failure Valve	Yes, Fail safe Close								
66	POSITIONER	Input Signal	4-20 mA							
67		*Type	Analog with I/T							
68		*Mfr. & Model	Valtek/isher only							
69		*On Iner Signal Output Iner/Deer								
70		Gauges	Yes	Bypass						
71		*Cam Characteristic	Linear							
72										
73										
74		SWITCHES	Type	Quantity						
75			*Mfr. & Model							
76	Contacts/ Rating									
77	Actuation Points									
78	AIRSET	*Mfr. & Model								
79		*Set Pressure								
80		Filter	Guage							
81	TESTS	*Hydro Pressure								
82		ANSI / FCI Leakage Class	Class-IV							
83										
84										
85										
86										
87	Rev	Date	Revision		Orig		App			
88										
89										
90										
91										
92										

[illegible]