

3-Way Valve



1	Customer:	Technoflow S.r.l.	ARTES-Ref.	5504603											
2	Project:	Ansaldo	Pos.	1											
3	Application:		Qty:	1											
4	TAG N°:		Serial-N°:	3178555.1											
5	Pipe		connection 1	connection 2	connection 3										
6	Pipe dimension	Ø D x s mm	219,1 x 15,09	219,1 x 15,09	168,3 x 14,27										
7	Pipe material		SA106M Gr.C	SA106M Gr.C	SA106M Gr.C										
8	Welding ends	Ø D x s mm	--	--	--										
9	Flange ends		ASME B16.5 - RTJ	ASME B16.5 - RTJ	ASME B16.5 - RTJ										
10	Valve design		connection 1	connection 2	connection 3										
11	Nominal pipe size	NPS	8"	8"	6"										
12	Pressure rating	class	1500	1500	1500										
13	Design pressure	bar(g)	155	155	155										
14	Temperature	°C	345	345	345										
15	Material		SA105	SA105	SA105										
16	Test pressure - Body Strength		363,0 bar												
17	Operating data		Loading case	Loading case	Loading case	Loading case									
18	Medium:	water	1	2	3	5									
19	Flow	kg/h	193.420												
20	Temperature	°C	190												
21	Inlet pressure	bar(g)	134,2												
22	Outlet pressure	bar(g)	133,7												
23															
24	Kv-value	m³/h	300,0												
25															
26	Valve type	3-way- valve (distributor), type W													
27	Materials		Valve parameters												
28			<table border="0"> <tr> <td>Ø seat</td> <td>100</td> <td>mm</td> </tr> <tr> <td>K_{vs}-value</td> <td>300</td> <td>m³/h</td> </tr> <tr> <td>Δp actuator</td> <td>2</td> <td>bar</td> </tr> </table>				Ø seat	100	mm	K _{vs} -value	300	m³/h	Δp actuator	2	bar
Ø seat	100	mm													
K _{vs} -value	300	m³/h													
Δp actuator	2	bar													
29	Body:	SA105													
30	Stem:	1.4122													
31	Seat:	SA105													
32	Plug:	1.4122													
33	Gaskets	Graphite													
34															
35			<table border="0"> <tr> <td>Characteristic:</td> <td>linear</td> </tr> <tr> <td>Install. Length:</td> <td>844,0 mm</td> </tr> <tr> <td></td> <td>392,0 mm</td> </tr> </table>				Characteristic:	linear	Install. Length:	844,0 mm		392,0 mm			
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36															
37	Requirements & Inspection:	Pressure Equipment Directive 2014/68/EU													
38		ASME BPVC Sec. VIII Div. 1													
39		Leakage rate: 1,0% of Kvs													
40	Installation advices														
41															
42	Actuator	pneumatic				3178557									
43	Type:	ProtACT PR216D, double-acting "rack&pinion", signal/air failure: "Fail-in-Place"													
44		Positioner Siemens Sipart PS2 6DR5020-0NG01-0BF0, 2-/3-/4-wire connection, input 4...20mA													
45		ly-module (6DR4004-8J) for position-feedback (4...20mA); air set YT-200BP210 1/4", piping SST													
46		min. air supply pressure: 4,0 bar(g)													
47															
48	Remarks														
49		4mA Signal: way 2 => 1 open, 20mA Signal: way 2 => 3 open													
50															
51															
52	Revision	0	1	2	3	4									
53	Date:	15.12.2022	17.03.2023												
54	Prepared:	C. Pocher	P. Schüler												
55	Checked:	P. Schüler	R. Feldmann												