

Three-Way Valve



ARTES Valve & Service GmbH
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Germany

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	MRC Global (Belgium) NV	ARTES-Ref.:	5504740					
2	Project:	1.09738 JDE - Malaysia	Pos.:	1					
3	Service:		Qty.:	1					
4	TAG No.:	1640-800	S/N:	3181998.1					
5	Pipeline - Connection Data		Connection 1	Connection 2	Connection 3				
6	Dimensions	Ø D [mm] x s [mm]	88,9 x 4,0	88,9 x 4,0	88,9 x 4,0				
7	Material		--	--	--				
8	Welding Connection	Ø D [mm] x s [mm]	--	--	--				
9	Flange Connection		ASME B16.5 / RF	ASME B16.5 / RF	ASME B16.5 / RF				
10	Valve - Design Data		Connection 1	Connection 2	Connection 3				
11	Nominal Size	DN / NPS	3"	3"	3"				
12	Nominal Pressure	PN / class	600	600	600				
13	Design Pressure	[bar(g)]	49,2	49,2	49,2				
14	Design Temperatur	[°C]	125	125	125				
15	Material		SA105	SA105	SA105				
16	Test Pressure - Body Strength								
17	Operation Data		Load Case	Load Case	Load Case	Load Case			
18	Medium:	water	1	2	3	4			
19	Flow Rate	[t/h]	23,2						
20	Temperature	[°C]	105						
21	Pressure, Inlet	[bar(g)]	37,60						
22	Pressure, Outlet	[bar(g)]	37,10						
23	Kvs value	[m³/h]	33,55						
24	Flow speed	[m/s]	1,3						
25									
26	Type Of Valve: 3-Way Valve - Type GW (Divider)								
27	Material:					Valve Parameters			
28						Ø seat		65	mm
29	Body:	SA105				Kvs Value:		max. 199,1	m³/h
30	Stem:	1.4122				delta p actuator		5	bar
31	Plug:	1.4122				Control characteristic:		linear	
32	Gaskets:					Dimensions:		370,0 mm	
33	O-Ring - EPDM (perox.)					185,0 mm			
34									
35									
36									
37	Design / Inspection:		ASME BPVC Sec.VIII, Div.1						
38			Requirements acc. to: ASME BPVC Sec.VIII, Div.1						
39			Leakage: 1,5% of Kvs-value						
40			Final Inspection Certificate acc. to EN 10204-3.1						
41	Installation requirements:								
42									
43	Actuator type:	pneumatic				3181999			
44	Type:	ProtACT PR134S.PRH, single-acting "rack&pinion", air to open, spring to close, signal/air failure: close							
45		Positioner Siemens Sipart PS2 6DR5110-0NG01-0AA0 with 2-wire connection and HART-interface,							
46		incl. ly-module for position-feedback (4...20mA); air set YT-200BP210 1/4", piping SST							
47		min. air supply pressure: 4,5 bar(g)							
48	Actuator adaption:	acc. ISO 5211							
49	Remarks:								
50	Connection 1 (Inlet AB) - always open								
51	Connection 2 (Outlet A) & Connection 3 (Outlet B) - controlled								
52									
53									
54	Revision:	0	1	2	3	4			
55	Date:	28.06.2023							
56	Prepared:	T. Khallouf							
57	Checked:	P. Schüler							