

Three-Way Valve



ARTES Valve & Service GmbH
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A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	MRC Global (Belgium) NV	ARTES-Ref.:	5504918		
2	Plant:	callensvyncke - IER - Imerys Energy Recovery Will.	Pos.:	3		
3	Service:	Temperature control FG downstream ECO EXT	Qty.:	1		
4	TAG No.:	50 LAB40 AA065	S/N:	3186581.1		
5	Pipeline		Connection 1	Connection 2	Connection 3	
6	Dimensions	Ø D [mm] x s [mm]	114,3 x 8,0	114,3 x 8,0	114,3 x 8,0	
7	Material		1.0345	1.0345	1.0345	
8	Weld ends	Ø D [mm] x s [mm]	--	--	--	
9	Flange ends		EN 1092-1/B	EN 1092-1/B	EN 1092-1/B	
10	Valve Design		Connection 1	Connection 2	Connection 3	
11	Nom. pipe size	DN / NPS	100	100	100	
12	Nom. pressure	PN / class	160	160	160	
13	Design Pressure	[bar(g)]	116,5	116,5	116,5	
14	Design Temp.	[°C]	160	160	160	
15	Material		1.0460	1.0460	1.0460	
16	Hydraulic Test Pressure					
17	Operational conditions		Load Case	Load Case	Load Case	Load Case
18	Medium:	water	1	2	3	4
19	Flow	[t/h]	19,2	83,0	93,4	
20	Temperature	[°C]	145	145,0	145,0	
21	p inlet	[bar(g)]	55,00	65,70	74,80	
22	p outlet	[bar(g)]	54,50	65,50	74,30	
23	Kvs value	[m³/h]	28,24	103,14	137,30	
24	flow speed	[m/s]	0,76	3,28	3,70	
25	Sound Pressure Level	[dB(A)]	49	52	56	
26	Valve type DWA-W					
27	Material:					Valve Parameters Ø seat: 65 mm Kvs Value: max. 199 m³/h delta p actuator: 3 bar Control characteristic: linear Dimensions: 430 mm x 215 mm
29	Body:	1.0460 (P250GH, C22.8)				
30	Stem:	1.4122				
31	Plug:	1.4122				
33	Gaskets:	Grafit				
37	Design & Tests acc. to:					
41	Installation requirements:					
43	Actuator type:	pneumatic				3186556
44	Model:	ProtACT PR216S.PRH - single acting rack&pinion type, air open/spring close, signal/air failure: close E/P positioner Sipart PS2 6DR5110-0NG01-0AA0 with 2-wire connection and HART-interface, incl. ly-module for position-feedback (4...20mA); air set PCR-P-64-G14-12-E-R1-M-T18, Norgren, 1/4", piping SST incl. Festo PAGN-63-16-G14-R1-1.6-0.5-V2; min. air supply pressure; 6,0bar(g)				
48	Actuator adaption:	acc. ISO 5211				
49	Remarks:					
50	When loss of instrument air C=0, Flow from A to B					
51	Listed sound pressure level dB(A) with 200mm sound-/thermalinsulation.					
52	Port A (1) always open, Port B(2) and Port C (3) controled.					
53	When loss of instrument air C=0, flow from A to B					
54	Revision:	0	1	2	3	4
55	Date:	04.03.2024	19.04.2024			
56	Prepared:	C. Pocher	C. Pocher			
57	Checked:	D. Hermann	R. Feldmann			