

3-Way Valve

1	Customer:	Steinmüller Babcock Environment GmbH	ARTES-ref.-no.:	5504173		
2	Plant:	Vantaa - Project: FBE-22-1518	Pos.:	12		
3	Location:	3-Way CV closed cooling water air cooler bypass	Qty.:	1		
4	TAG No.:	J4 PGB40 AA010	S/N:	3166246.1		
5	Pipe - Connection Data		Connection 1	Connection 2	Connection 3	
6	Dimensions	Ø D x s [mm x mm]	60,3 x 2,9	60,3 x 2,9	60,3 x 2,9	
7	Material		1.4307 (X2CrNi18-9)	1.4307 (X2CrNi18-9)	1.4307 (X2CrNi18-9)	
8	Weld ends	Ø D x s [mm x mm]	60,9 x 3,2	60,9 x 3,2	60,9 x 3,2	
9	Flange ends		--	--	--	
10	Valve - Connection Data		Connection 1	Connection 2	Connection 3	
11	Nominal Pipe Size	DN / NPS	50	50	50	
12	Nominal Pressure (Rating Class)	PN / class	--	--	--	
13	Material		1.4571 (X6CrNiMoTi17-12-2)	1.4571 (X6CrNiMoTi17-12-2)	1.4571 (X6CrNiMoTi17-12-2)	
14	Valve - Design Data					
15	Design Pressure	[bar(g)]	10			
16	Design Temperature	[°C]	75			
17	Nominal Pressure (Rating Class)	PN / class	--			
18	Material		1.4571 (X6CrNiMoTi17-12-2)			
19	Hydraulic Test Pressure		--			
20	Operation Data		Loading Case	Loading Case		Loading Case
21	Medium:	Water	1 (1)	2 (2)		3 (5)
22	Flowrate	[kg/s]	4,90	4,41	0,49	4,90
23	Temperature	[°C]	37	37	37	37
24	Pressure, Inlet	[bar(g)]	2,28	2,28	2,28	2,28
25	Pressure, Outlet	[bar(g)]	2,16	1,95	1,82	1,87
26	K _v -Value	[m³/h]	51,34	27,76	2,61	27,60
27						
28						
29	Valve type 3-Way Valve - Divider - Type G					
30	Material:			Valve Parameters		
31						
32	Body:	1.4571 (X6CrNiMoTi17-12-2)	Seat Diameter:			65 mm
33	Stem:	1.4571 (X6CrNiMoTi17-12-2)	K _{VS} -Value:			66 m³/h
34	Plug:	1.4571 (X6CrNiMoTi17-12-2)	max. Δp for actuator:			2 bar
35				Control		Install. Length ca. 284 mm
36	Gaskets:	O-Rings, EPDM perox.	Characteristic:			
37				linear		
38						
39						
40	Design / Inspection:		Pressure Equipment Directive 2014/68/EU			
41			Requirements acc. to: EN 12952			
42			Leakage: ca. 1,5% of K _{VS} - value			
43	Final Inspection Confirmation acc. to DIN EN 10204					
44	3.1					
45	Actuator:		electric			3166436
46	Type:		auma SAR 07.6 with GS63.3 and AC01.2			
47			U = 400V / 50Hz / 3ph			
48			terminal plan: TPA 00R100-0I1-000, TPC A-1B2-1H2-A000			
49			positioning time: 24 sec. / 90°			
50	Actuatoradaption:		EN ISO 5211 - F12 - square 12 mm			
51	Remarks:					
52						
53						
54						
55	Revision:	0	1	2	3	7
56	Date:	08.03.2021	24.06.2021			
57	Prepared:	H. Roßmann	P. Schüler			
58	Checked:	H. Jäkel	R. Feldmann			