

3-Way Valve



ARTES Valve & Service GmbH
Parkallee 7 - 16727 Velten
GERMANY

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	Steinmüller Babcock Environment GmbH	ARTES-ref.-no.:	5504173				
2	Plant:	Vantaa - Project: FBE-22-1518	Pos.:	6				
3	Location:	3-Way CV feed water upstream economiser	Qty.:	1				
4	TAG No.:	J4 LAB41 AA010	S/N:	3166227.1				
5	Pipe - Connection Data		Connection 1	Connection 2	Connection 3			
6	Dimensions	Ø D x s [mm x mm]	139,7 x 5,0	139,7 x 5,0	114,3 x 4,5			
7	Material		1.0345 (P235GH)	1.0345 (P235GH)	1.0345 (P235GH)			
8	Weld ends	Ø D x s [mm x mm]	139,7 x 5,0	139,7 x 5,0	114,3 x 4,5			
9	Flange ends		--	--	--			
10	Valve - Connection Data		Connection 1	Connection 2	Connection 3			
11	Nominal Pipe Size	DN / NPS	125	125	100			
12	Nominal Pressure (Rating Class)	PN / class	--	--	--			
13	Material		1.0460 (P250GH)	1.0460 (P250GH)	1.0460 (P250GH)			
14	Valve - Design Data							
15	Design Pressure	[bar(g)]	32					
16	Design Temperature	[°C]	221					
17	Nominal Pressure (Rating Class)	PN / class	--					
18	Material		1.0460 (P250GH)					
19	Hydraulic Test Pressure		--					
20	Operation Data		Loading Case	Loading Case	Loading Case	Loading Case		
21	Medium:	Water	1 (2)	2 (3)	3 (5)	4 (6)		
22	Flowrate	[kg/s]	3,17	16	31,67	38,86		
23	Temperature	[°C]	130	130	130	130		
24	Pressure, Inlet	[bar(g)]	27,00	27,00	27,00	30,09		
25	Pressure, Outlet	[bar(g)]	26,50	26,58	26,80	29,33		
26	K _v -Value	[m³/h]	16,68	91,47	278,84	169,47		
27								
28								
29	Valve type		3-Way Valve - Divider - Type W					
30	Material:				Valve Parameters			
31					Seat Diameter:	100 mm		
32	Body:	1.0460 (P250GH)					K _{VS} -Value:	310 m³/h
33	Stem:	1.4122 (X39CrMo17-1)					max. Δp for actuator:	2 bar
34	Plug:	1.0460 (P250GH)					Control	Install. Length ca. 600 mm
35	Gaskets:	Graphite					Characteristic:	ca. 250 mm
36							linear	
37								
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		3.1					
44								
45	Actuator:		electric		3166262			
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 36 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					