

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							
32	Body:	1.0460 (P250GH)			Seat Diameter:	100	mm
33	Stem:	1.4122 (X39CrMo17-1)			K _{VS} -Value:	310	m³/h
34	Plug:	1.0460 (P250GH)			max. Δp for actuator:	2	bar
35					Control	Install. Length	ca. 600 mm
36	Gaskets:	Graphite			Characteristic:	ca. 250 mm	
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		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				