

Control Valve



ARTES Valve & Service GmbH
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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.:	9			
3	Location:	CV HP condensate primary air preheater	Qty.:	1			
4	TAG No.:	J4 LCN10 AA010	S/N:	3166207.1			
5	Pipe - Connection Data		Inlet			Outlet	
6	Dimensions	Ø D [mm] x s [mm]	60,3	x	2,9	60,3	x 2,9
7	Material		1.0345 (P235GH)			1.0345 (P235GH)	
8	Schweißanschluss	Ø D [mm] x s [mm]	60,9	x	3,2	60,9	x 3,2
9	Flange Connection		--			--	
10	Valve - Design		Inlet			Outlet	
11	Nominal Size	DN / NPS	50			50	
12	Nominal Pressure	PN / class	--			--	
13	Design Pressure	bar(g)	25			25	
14	Design Temperature	°C	221			221	
15	Material		1.0460 (P250GH, C22.8)			1.0460 (P250GH, C22.8)	
16	Operation Data		Loading Case	Loading Case	Loading Case	Loading Case	Loading Case
17	Medium	Nr.1 Water/Steam	1	2	3	4	5 6
18	Phase		water	water	water	water	
19	Flowrate	kg/s	0,32	0,85	1,07	1,24	
20	Temperature, Inlet	°C	115,00	115,00	115,00	115,00	
21	Pressure, Inlet	barG	18,93	18,50	18,20	17,94	
22	Pressure, Outlet	barG	2,62	2,63	2,64	2,64	
23	kv	m³/h	0,29	0,79	1,00	1,17	
24	Flow Speed, Outlet	m/s	0,14	0,38	0,48	0,56	
25	Sound Pressure Level	dB(A)	68	76	78	79	
26	Type Of Valve Control Ball Valve Type W						
27	Valve Parameter			Material			
28	Seat Diameter:	25 mm	Body: 1.0460 (P250GH, C22.8)				
29	Pressure Reduction Steps, controlled:	1	Seating: 1.4122 (X39CrMo17-1), hard./coat.				
30	Pressure Reduction Steps, fix:		Ball: 1.4122 (X39CrMo17-1), hard./coat.				
31	kvs	1,5 m³/h	Control disc: 1.4122 (X39CrMo17-1), hardened				
32	Control Characteristic:	linear	Seals: Graphite				
33	max. Dp für Actuator:	25 bar					
34	Installation Length:	210 mm					
35							
36	Design / Inspection					Final Inspection Confirmation	
37	Pressure Equipment Directive 2014/68/EU					3.1	
38	Requirements acc. to: EN 12952					acc. to DIN EN 10204	
39	Leakage Class: 0,01% of Kvs-Value						
40							
41	Actuator	electric					3166433
42	Type:	auma SAR 07.6 with GS63.3 and AC01.2					
43		U = 400V / 50Hz / 3ph					
44		terminal plan: TPA 00R100-011-000, TPC A-1B2-1H2-A000					
45		positioning time: 24 sec. / 90°					
46							
47	Actuatoradaption:	EN ISO 5211 - F10 - square 17 mm					
48	Remarks						
49	Attention!						
50	loading case 1 ... 4 - INCIPIENT CAVITATION						
51							
52							
53							
54	Revision	0	1	2	3	4	5 6
55	Date:	08.03.2021	18.06.2021				
56	Prepared:	H. Roßmann	P. Schüler				
57	Checked:	H. Jäkel	R. Feldmann				