

Control 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.:	7			
3	Location:	CV saturated steam feed water tank heating	Qty.:	1			
4	TAG No.:	J4 LBA40 AA010	S/N:	3166189.1			
5	Pipe - Connection Data		Inlet			Outlet	
6	Dimensions	Ø D [mm] x s [mm]	139,7	x	4	219,1	x 6,3
7	Material		1.0345 (P235GH)			1.0345 (P235GH)	
8	Schweißanschluss	Ø D [mm] x s [mm]	139,7	x	4	219,1	x 6,3
9	Flange Connection		--			--	
10	Valve - Design		Inlet			Outlet	
11	Nominal Size	DN / NPS	125			200	
12	Nominal Pressure	PN / class	--			--	
13	Design Pressure	bar(g)	22,5			22,5	
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	Water/Steam	1 (1)	2 (4)	3 (5)	4 (8)	5 (9)
18	Phase		steam	steam	steam	steam	steam
19	Flowrate	kg/s	1,45	1,60	1,38	3,06	2,35
20	Temperature, Inlet	°C	212,20	212,20	212,30	212,00	212,00
21	Pressure, Inlet	barG	18,92	18,91	18,93	18,64	18,79
22	Pressure, Outlet	barG	1,87	1,92	1,86	2,49	2,16
23	Σ-kv	m³/h	19,4	22,6	18,9	44,2	33,4
24	Flow Speed, Outlet	m/s	30,1	32,6	28,7	52,2	44,3
25	Sound Pressure Level	dB(A)	87	87	87	89	88
26	Type Of Valve Control Ball Valve Type W						
27	Valve Parameter			Material			
28	Seat Diameter:	100 mm	Body: 1.0460 (P250GH, C22.8)				
29	Pressure Reduction Steps, controlled:	2	Seating: 1.4122 (X39CrMo17-1), hard./coat.				
30	Pressure Reduction Steps, fix:		Ball: 1.4122 (X39CrMo17-1), hard./coat.				
31	Σ-kvs	53,9 m³/h	Control disc: 1.4122 (X39CrMo17-1)				
32	Control Characteristic:	equal percentage	Seals: Graphite				
33	max. Dp für Actuator:	22,5 bar					
34	Installation Length:	450 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					3166263
42	Type:	auma SAR 10.2 with GS80.3 and AC01.2					
43		U = 400V / 50Hz / 3ph					
44		terminal plan: TPA 00R100-011-000, TPC A-1B2-1H2-A000					
45		positioning time: 25 sec. / 90°					
46							
47	Actuatoradaption:	EN ISO 5211 - F12 - multi-tooththing					
48	Remarks						
49							
50							
51							
52							
53	control disc - partial perforated type						
54	Revision	0	1	2	3	4	5
55	Date:	08.03.2021	18.06.2021				
56	Prepared:	H. Roßmann	P. Schüler				
57	Checked:	H. Jäkel	R. Feldmann				