

Control Valve



ARTES Valve & Service GmbH
Parkallee 7 - 16727 Veltens
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.:	5			
3	Location:	CV2 feed water	Qty.:	1			
4	TAG No.:	J4 LAB40 AA020	S/N:	3166183.2			
5	Pipe - Connection Data		Inlet			Outlet	
6	Dimensions	Ø D [mm] x s [mm]	139,7	x	5	139,7	x 5
7	Material		1.0345 (P235GH)			1.0345 (P235GH)	
8	Schweißanschluss	Ø D [mm] x s [mm]	139,7	x	5	139,7	x 5
9	Flange Connection		--			--	
10	Valve - Design		Inlet			Outlet	
11	Nominal Size	DN / NPS	125			125	
12	Nominal Pressure	PN / class	--			--	
13	Design Pressure	bar(g)	50			50	
14	Design Temperature	°C	160			160	
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
18	Phase		water	water	water	water	water
19	Flowrate	kg/s	3,17	22,22	31,67	35,33	38,86
20	Temperature, Inlet	°C	25,00	130,00	130,00	130,00	130,00
21	Pressure, Inlet	barG	10,00	28,05	28,80	30,37	32,04
22	Pressure, Outlet	barG	0,00	24,05	27,30	28,87	30,54
23	kv	m³/h	3,62	41,4	97,0	110	119
24	Flow Speed, Outlet	m/s	0,24	1,80	2,56	2,86	3,14
25	Sound Pressure Level	dB(A)	63	60	55	56	57
26	Type Of Valve Control Ball Valve Type GW						
27	Valve Parameter					Material	
28	Seat Diameter:	100 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	150,0 m³/h				Control disc: 1.4122 (X39CrMo17-1)	
32	Control Characteristic:	linear				Seals: O-Rings, EPDM perox.	
33	max. Dp für Actuator:	50 bar					
34	Installation Length:	400 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-toothing					
48	Remarks						
49	Attention!						
50	loading case 1 - INCIPIENT CAVITATION						
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				