

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.:	3			
3	Location:	CV emergency drain boiler drum	Qty.:	1			
4	TAG No.:	J4 HAD12 AA010	S/N:	3166165.1			
5	Pipe - Connection Data		Inlet		Outlet		
6	Dimensions	Ø D [mm] x s [mm]	76,1	x	3,6	219,1	x 6,3
7	Material		1.0345 (P235GH)			1.0345 (P235GH)	
8	Schweißanschluss	Ø D [mm] x s [mm]	76,1	x	3,6	219,1	x 6,3
9	Flange Connection		--			--	
10	Valve - Design		Inlet		Outlet		
11	Nominal Size	DN / NPS	65			200	
12	Nominal Pressure	PN / class	--			--	
13	Design Pressure	bar(g)	27			12	
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
18	Phase		water	water	water	water	
19	Flowrate	kg/s	0,78	2,61	15,80	1,58	
20	Temperature, Inlet	°C	212,00	186,00	184,00	97,00	
21	Pressure, Inlet	barG	21,71	13,21	21,71	2,71	
22	Pressure, Outlet	barG	0,20	0,10	0,10	0,00	
23	kv	m³/h	1,37	5,25	17,7	3,57	
24	Flow Speed, Outlet	m/s	6,95	19,4	115	0,05	
25	Sound Pressure Level	dB(A)	65	76	87	72	
26	Type Of Valve Control Ball Valve Type W						
27	Valve Parameter			Material			
28	Seat Diameter:	50 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	25,0 m³/h	Control disc: 1.4122 (X39CrMo17-1)				
32	Control Characteristic:	linear	Seals: Graphite				
33	max. Dp für Actuator:	27 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					3166262
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 - F12 - square 21 mm					
48	Remarks						
49	Attention!						
50	loading case 1 ... 4 - FLASHING						
51	loading case 1 ... 4 - high flow speed						
52	control disc - perforated type						
53	valve placed directly in front of the tank						
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				