

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.:	1			
3	Location:	CV make-up water upstream feed water tank	Qty.:	1			
4	TAG No.:	J4 GHC52 AA010	S/N:	3166127.1			
5	Pipe - Connection Data		Inlet		Outlet		
6	Dimensions	Ø D [mm] x s [mm]	33,7	x	2,3	33,7	x 2,3
7	Material		1.4571 (X6CrNiMoTi17-12-2)			1.4571 (X6CrNiMoTi17-12-2)	
8	Schweißanschluss	Ø D [mm] x s [mm]	33,7	x	2,3	33,7	x 2,3
9	Flange Connection		--			--	
10	Valve - Design		Inlet		Outlet		
11	Nominal Size	DN / NPS	25			25	
12	Nominal Pressure	PN / class	--			--	
13	Design Pressure	bar(g)	13			13	
14	Design Temperature	°C	160			160	
15	Material		1.4571 (X6CrNiMoTi17-12-2)			1.4571 (X6CrNiMoTi17-12-2)	
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	0,08	0,11	0,87	1,92	
20	Temperature, Inlet	°C	122,00	122,00	90,00	90,00	
21	Pressure, Inlet	barG	5,48	5,47	5,27	3,50	
22	Pressure, Outlet	barG	1,70	1,71	1,73	1,75	
23	kv	m³/h	0,15	0,21	1,70	5,39	
24	Flow Speed, Outlet	m/s	0,13	0,18	1,35	2,99	
25	Sound Pressure Level	dB(A)	47	50	65	58	
26	Type Of Valve Control Ball Valve Type GW						
27	Valve Parameter			Material			
28	Seat Diameter:	25	mm	Body:	1.4571 (X6CrNiMoTi17-12-2)		
29	Pressure Reduction Steps, controlled:	1		Seating:	1.4571 (X6CrNiMoTi17-12-2), hard./coat.		
30	Pressure Reduction Steps, fix:			Ball:	1.4571 (X6CrNiMoTi17-12-2), hard./coat.		
31	kvs	8,0	m³/h	Control disc:	1.4571 (X6CrNiMoTi17-12-2)		
32	Control Characteristic:	linear		Seals:	O-Rings, EPDM perox.		
33	max. Dp für Actuator:	13	bar				
34	Installation Length:	190	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 ... 3 - INCIPIENT CAVITATION						
51							
52							
53							
54	Revision	0	1	2	3	4	5
55	Date:	08.03.2021	15.06.2021				
56	Prepared:	H. Roßmann	P. Schüler				
57	Checked:	H. Jäkel	R. Feldmann				