

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.:	2			
3	Location:	CV process water supply mixer blow down tank	Qty.:	1			
4	TAG No.:	J4 GAC86 AA010	S/N:	3166132.1			
5	Pipe - Connection Data		Inlet		Outlet		
6	Dimensions	Ø D [mm] x s [mm]	168,3	x	3,2	168,3	x 3,2
7	Material		1.4307 (X2CrNi18-9)			1.4307 (X2CrNi18-9)	
8	Schweißanschluss	Ø D [mm] x s [mm]	168,3	x	3,2	168,3	x 3,2
9	Flange Connection		--			--	
10	Valve - Design		Inlet		Outlet		
11	Nominal Size	DN / NPS	150			150	
12	Nominal Pressure	PN / class	--			--	
13	Design Pressure	bar(g)	10			10	
14	Design Temperature	°C	60			60	
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	water
19	Flowrate	kg/s	0,12	32,47	35,60	3,57	35,72
20	Temperature, Inlet	°C	15,00	15,00	15,00	15,00	15,00
21	Pressure, Inlet	barG	3,00	3,00	3,00	3,00	3,00
22	Pressure, Outlet	barG	0,75	2,40	2,74	0,77	2,75
23	kv	m³/h	0,29	157	279	8,62	286
24	Flow Speed, Outlet	m/s	0,01	1,58	1,73	0,17	1,74
25	Sound Pressure Level	dB(A)	42	60	55	68	54
26	Type Of Valve Control Ball Valve Type GW						
27	Valve Parameter					Material	
28	Seat Diameter:	100 mm				Body: 1.4571 (X6CrNiMoTi17-12-2)	
29	Pressure Reduction Steps, controlled:	1				Seating: 1.4462 (X2CrNiMoN22-5-3), hard./coat.	
30	Pressure Reduction Steps, fix:					Ball: 1.4462 (X2CrNiMoN22-5-3), hard./coat.	
31	kvs	320,0 m³/h				Control disc: 1.4571 (X6CrNiMoTi17-12-2)	
32	Control Characteristic:	equal percentage				Seals: O-Rings, EPDM perox.	
33	max. Dp für Actuator:	10 bar					
34	Installation Length:	440 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°					
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47	Actuatoradaption:	EN ISO 5211 - F12 - multi-toothing					
48	Remarks						
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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				