

# 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.:	11			
3	Location:	CV minimum flow main condensate pump 3+4	Qty.:	1			
4	TAG No.:	J4 NAB46 AA010	S/N:	3166214.2			
5	<b>Pipe - Connection Data</b>		<b>Inlet</b>		<b>Outlet</b>		
6	Dimensions	Ø D [mm] x s [mm]	76,1	x	3,6	76,1	x 3,6
7	Material		1.0345 (P235GH)			1.0345 (P235GH)	
8	Schweißanschluss	Ø D [mm] x s [mm]	76,1	x	3,6	76,1	x 3,6
9	Flange Connection		--			--	
10	<b>Valve - Design</b>		<b>Inlet</b>		<b>Outlet</b>		
11	Nominal Size	DN / NPS	65			65	
12	Nominal Pressure	PN / class	--			--	
13	Design Pressure	bar(g)	30			30	
14	Design Temperature	°C	221			221	
15	Material		1.0460 (P250GH, C22.8)			1.0460 (P250GH, C22.8)	
16	<b>Operation Data</b>		<b>Loading Case</b>	<b>Loading Case</b>	<b>Loading Case</b>	<b>Loading Case</b>	<b>Loading Case</b>
17	Medium	Nr.1 Water/Steam	1	2	3	4	5 6
18	Phase		water	water			
19	Flowrate	kg/s	6,33	7,44			
20	Temperature, Inlet	°C	52,00	105,00			
21	Pressure, Inlet	barG	2,80	3,40			
22	Pressure, Outlet	barG	1,50	2,10			
23	kv	m³/h	20,8	25,2			
24	Flow Speed, Outlet	m/s	1,72	2,09			
25	Sound Pressure Level	dB(A)	62	63			
26	<b>Type Of Valve Control Ball Valve Type W</b>						
27	<b>Valve Parameter</b>			<b>Material</b>			
28	Seat Diameter:	40 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	33,0 m³/h	Control disc: 1.4122 (X39CrMo17-1), hardened				
32	Control Characteristic:	linear	Seals: Graphite				
33	max. Dp für Actuator:	5 bar					
34	Installation Length:	290 mm					
35							
36	<b>Design / Inspection</b>					<b>Final Inspection Confirmation</b>	
37	Pressure Equipment Directive 2014/68/EU					<b>3.1</b>	
38	Requirements acc. to: EN 12952					<b>acc. to DIN EN 10204</b>	
39	Leakage Class: 0,01% of Kvs-Value						
40							
41	<b>Actuator</b>	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°					
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47	<b>Actuatoradaption:</b>	EN ISO 5211 - F10 - square 17 mm					
48	<b>Remarks</b>						
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54	Revision	0	1	2	3	4	5 6
55	Date:	08.03.2021	18.06.2021				
56	Prepared:	H. Roßmann	P. Schüler				
57	Checked:	H. Jäkel	R. Feldmann				