

# 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.:	8			
3	Location:	CV start-up line boiler	Qty.:	1			
4	TAG No.:	J4 LBH10 AA010	S/N:	3166224.1			
5	<b>Pipe - Connection Data</b>		<b>Inlet</b>		<b>Outlet</b>		
6	Dimensions	Ø D [mm] x s [mm]	323,9	x	7,1	457,0	x 6,3
7	Material		1.0345 (P235GH)			1.0345 (P235GH)	
8	Schweißanschluss	Ø D [mm] x s [mm]	323,9	x	7,1	457,0	x 6,3
9	Flange Connection		--			--	
10	<b>Valve - Design</b>		<b>Inlet</b>		<b>Outlet</b>		
11	Nominal Size	DN / NPS	300			450	
12	Nominal Pressure	PN / class	--			--	
13	Design Pressure	bar(g)	23			12	
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		steam	steam	steam		
19	Flowrate	kg/s	3,16	22,11	31,58		
20	Temperature, Inlet	°C	195,40	212,50	212,50		
21	Pressure, Inlet	barG	13,10	19,00	19,00		
22	Pressure, Outlet	barG	0,03	1,66	3,38		
23	Σ-kv	m³/h	58,1	295	420		
24	Flow Speed, Outlet	m/s	39,0	107	92,6		
25	Sound Pressure Level	dB(A)	99	109	109		
26	<b>Type Of Valve Control Ball Valve Type W</b>						
27	<b>Valve Parameter</b>			<b>Material</b>			
28	Seat Diameter:	250	mm	Body:	1.0460 (P250GH, C22.8)		
29	Pressure Reduction Steps, controlled:	2		Seating:	1.4122 (X39CrMo17-1), hard./coat.		
30	Pressure Reduction Steps, fix:			Ball:	1.4122 (X39CrMo17-1), hard./coat.		
31	Σ-kvs	446,7	m³/h	Control disc:	1.0460 (P250GH, C22.8)		
32	Control Characteristic:	linear		Seals:	Graphite		
33	max. Dp für Actuator:	23	bar				
34	Installation Length:	900	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					3166264
42	Type:	auma SAR 14.6 with GS160.3 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	<b>Actuatoradaption:</b>	EN ISO 5211 - F30 - multi-toothing					
48	<b>Remarks</b>						
49	<b>Attention!</b>						
50	loading case 2 & 3 - high flow speed						
51							
52							
53	control disc - perforated type						
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				