

Control Valve



ARTES Valve & Service GmbH
Parkallee 7 - 16727 Velten
GERMANY

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	Standardkessel Baumgarte GmbH	ARTES-ref.-no.:	5504239			
2	Plant:	E-Wood	Pos.:	3			
3	Location:	Boiler Feedwater	Qty.:	1			
4	TAG No.:	B70 LCV02012	S/N:	3167660.1			
5	Pipe - Connection Data		Inlet			Outlet	
6	Dimensions	Ø D [mm] x s [mm]	168,3	x	14,2	168,3	x 14,2
7	Material		1.5415 (16Mo3)			1.5415 (16Mo3)	
8	Schweißanschluss	Ø D [mm] x s [mm]	168,3	x	14,2	168,3	x 14,2
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)	145			145	
14	Design Temperature	°C	340			340	
15	Material		1.5415 (16Mo3, 15Mo3)			1.5415 (16Mo3, 15Mo3)	
16	Operation Data		Loading Case	Loading Case	Loading Case	Loading Case	Loading Case
17	Medium	Water/Steam	1	2	3	4	5
18	Phase		water	water	water	water	water
19	Flowrate	t/h	8,60	17,20	50,60	81,00	81,00
20	Temperature, Inlet	°C	130,00	160,00	210,00	292,00	292,00
21	Pressure, Inlet	barG	50,00	115,60	80,40	88,30	103,30
22	Pressure, Outlet	barG	5,00	72,00	76,40	84,20	99,20
23	kv	m³/h	1,33	2,73	27,4	47,46	47,3
24	Flow Speed, Outlet	m/s	0,17	0,34	1,07	2,01	2,00
25	Sound Pressure Level	dB(A)	69	66	52	58	57
26	Type Of Valve Control Ball Valve Type W						
27	Valve Parameter			Material			
28	Seat Diameter:	80 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	86,0 m³/h	Control disc: 1.4122 (X39CrMo17-1), hardened				
32	Control Characteristic:	equal percentage	Seals: Graphite				
33	max. Dp für Actuator:	50 bar					
34	Installation Length:	480 mm					
35							
36	Design / Inspection					Final Inspection Confirmation	
37	Pressure Equipment Directive 2014/68/EU					acc. to DIN EN 10204	
38	Requirements acc. to: EN 12952					3.1	
39	Leakage Class: A acc. to EN 12266-1						
40							
41	Actuator	electric					3167641
42	Type:	auma SAR07.6 + GS80.3 + AC01.2 + PAF01.1					
43		400 V / 50 Hz / 3Ph					
44		Terminal plan: TPA 00R100-0I1-000, TPC A-1B2-1M2-A000					
45							
46							
47	Actuatoradaption:	--					
48	Remarks						
49	Attention!						
50	loading case 1 - CAVITATION						
51							
52							
53	control disc - partial perforated type						
54	Revision	0	1	2	3	4	5
55	Date:	27.05.2021	10.06.2021	22.06.2021			
56	Prepared:	H. Roßmann	P. Schüler	P. Schüler			
57	Checked:	H. Jäkel	R. Feldmann	R. Feldmann			