

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.:	2	
3	Location:	Drum Emergency Drain				Qty.:	1	
4	TAG No.:	B70 LCV02021				S/N:	3167653.1	
5	Pipe - Connection Data			Inlet			Outlet	
6	Dimensions	Ø D [mm] x s [mm]	48,3	x	4,5	88,9	x	6,3
7	Material		1.5415 (16Mo3)			1.0345 (P235GH)		
8	Schweißanschluss	Ø D [mm] x s [mm]	48,3	x	4,5	88,9	x	6,3
9	Flange Connection		--			--		
10	Valve - Design			Inlet			Outlet	
11	Nominal Size	DN / NPS	40			80		
12	Nominal Pressure	PN / class	--			--		
13	Design Pressure	bar(g)	88			10		
14	Design Temperature	°C	302			184		
15	Material		1.5415 (16Mo3, 15Mo3)			1.5415 (16Mo3, 15Mo3)		
16	Operation Data		Loading Case	Loading Case	Loading Case	Loading Case	Loading Case	Loading Case
17	Medium	Nr.1 Water/Steam	1	2	3	4	5	6
18	Phase		water	water	water	water		
19	Flowrate	t/h	3,40	3,40	10,30	17,10		
20	Temperature, Inlet	°C	290,00	165,00	255,00	291,00		
21	Pressure, Inlet	barG	77,00	6,80	45,80	77,00		
22	Pressure, Outlet	barG	1,00	1,00	1,00	1,50		
23	kv	m³/h	0,95	3,12	3,68	4,91		
24	Flow Speed, Outlet	m/s	65,4	16,2	153	261		
25	Sound Pressure Level	dB(A)	61	70	73	77		
26	Type Of Valve Control Ball Valve Type W							
27	Valve Parameter				Material			
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		7,4	m³/h	Control disc:	1.4122 (X39CrMo17-1), hardened		
32	Control Characteristic:		equal percentage, modified		Seals:	Graphite		
33	max. Dp für Actuator:		88	bar				
34	Installation Length:		245	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	pneumatic						3167642
42	Type:	ProtACT PR263S, single acting, spring closes						
43		Positioner Siemens Sipart PS2 - 6DR5010-0NG01-0AA0, communication 2-Pin - 4...20 mA						
44		Filter-Regulator YT-200BP210; stainless steel piping						
45		Positioning time: ca. 30 sec / 90°						
46		air supply: min. 5,5 bar(g)						
47	Actuatoradaption:	--						
48	Remarks							
49	Attention!							
50	loading case 1 ... 4 - FLASHING							
51	loading case 1 & 3 - very high flow speed							
52	control disc - perforated type							
53	valve placed directly in front of the tank							
54	Revision	0	1	2	3	4	5	6
55	Date:	27.05.2021	04.06.2021	10.06.2021	22.09.2021			
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