

Control Valve



ARTES Valve & Service GmbH
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GERMANY

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	Standardkessel Baumgarte GmbH	ARTES-ref.-no.:	5504239			
2	Plant:	E-Wood	Pos.:	1			
3	Location:	Start-up Control Valve	Qty.:	1			
4	TAG No.:	B70 PCV02616	S/N:	3167656.1			
5	Pipe - Connection Data		Inlet		Outlet		
6	Dimensions	Ø D [mm] x s [mm]	168,3	x	11	219,1	x 12,5
7	Material		1.5415 (16Mo3)		1.0345 (P235GH)		
8	Schweißanschluss	Ø D [mm] x s [mm]	168,3	x	11	219,1	x 12,5
9	Flange Connection		--		--		
10	Valve - Design		Inlet		Outlet		
11	Nominal Size	DN / NPS	150		200		
12	Nominal Pressure	PN / class	--		--		
13	Design Pressure	bar(g)	85		30		
14	Design Temperature	°C	470		430		
15	Material		1.5415 (16Mo3, 15Mo3)		1.0460 (P250GH, C22.8)		
16	Operation Data		Loading Case	Loading Case	Loading Case	Loading Case	Loading Case
17	Medium	Water/Steam	1	2	3	4	5
18	Phase		steam	steam	steam	steam	
19	Flowrate	t/h	70,04	64,50	4,61	70,75	
20	Temperature, Inlet	°C	452,03	453,00	399,91	452,03	
21	Pressure, Inlet	barG	74,32	71,00	4,89	74,32	
22	Pressure, Outlet	barG	24,76	22,85	1,90	24,76	
23	Σ-kv	m³/h	88,9	84,4	76,3	89,8	
24	Flow Speed, Outlet	m/s	79,1	79,2	46,0	80,0	
25	Sound Pressure Level	dB(A)	89	89	65	89	
26	Type Of Valve Control Ball Valve Type W						
27	Valve Parameter			Material			
28	Seat Diameter:	100	mm	Body:	1.5415 (16Mo3, 15Mo3)		
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	89,8	m³/h	Control disc:	1.4122 (X39CrMo17-1), hardened		
32	Control Characteristic:	equal percentage, modified		Seals:	Graphite		
33	max. Dp für Actuator:	85	bar				
34	Installation Length:	470	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					
42	Type:	ProtACT PRY.B1.321S.06.PRH, single acting, spring closes					
43		Positioner Siemens Sipart PS2 - 6DR5010-0NG01-0AA0, communication 2-Pin - 4..20 mA					
44		Filter-Regulator YT-200BP210; Volume Booster YT-300P1					
45		SET - fast ventilation for fast running (ca. 1 sec.)					
46		air supply: min. 5,5 bar(g)					
47	Actuatoradaption:	--					
48	Remarks						
49	Loading Case 4 - max. flowrate at 100% open position of the valve						
50							
51							
52							
53	sound pressure level with sound insulation 200 mm						
54	Revision	0	1	2	3	4	5
55	Date:	27.05.2021	07.06.2021	10.06.2021	21.06.2021		
56	Prepared:	H. Roßmann	H. Jäkel	P. Schüler	P. Schüler		
57	Checked:	H. Jäkel	H. Roßmann	R. Feldmann	H. Jäkel		