

# Three-Way Valve



ARTES Valve & Service GmbH  
Parkallee 7 - 16727 Velten  
Germany

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	Richard Kablitz GmbH	ARTES-Ref.:	5504706				
2	Plant:	Annaberg-Buchholz	Pos.:	5				
3	Service:	3-Wege-Regelv. SchlaVo	Qty.:	1				
4	TAG No.:	01 LAB30 AA030	S/N:	3181233.1				
5	<b>Pipeline</b>		<b>Connection 1</b>	<b>Connection 2</b>	<b>Connection 3</b>			
6	Dimensions	Ø D [mm] x s [mm]	76,1 x 3,6	76,1 x 3,6	76,1 x 3,6			
7	Material		--	--	--			
8	Weld ends	Ø D [mm] x s [mm]	76,1 x 3,6	76,1 x 3,6	76,1 x 3,6			
9	Flange ends		--	--	--			
10	<b>Valve Design</b>		<b>Connection 1</b>	<b>Connection 2</b>	<b>Connection 3</b>			
11	Nom. pipe size	DN / NPS	65	65	65			
12	Nom. pressure	PN / class	--	--	--			
13	Design Pressure	[bar(g)]	55	55	55			
14	Design Temp.	[°C]	200	200	200			
15	Material		1.0460	1.0460	1.0460			
16	<b>Hydraulic Test Pressure</b>							
17	<b>Operational conditions</b>		Load Case	Load Case	Load Case	Load Case		
18	Medium:	Wasser	1	2	3	4		
19	Flow	[kg/h]	6.435	19.305	28689,375			
20	Temperature	[°C]	105	105	105			
21	p inlet	[bar(g)]	21,00	30,00	30,00			
22	p outlet	[bar(g)]	20,80	29,80	29,80			
23	Kvs value	[m³/h]	14,70	44,15	65,61			
24	Leakage flow	[t/h]	0,00	0,00	0,00			
25	Geschwindigkeit	[m/s]	0,50	1,60	2,41			
26	<b>Valve type</b> DWA-W							
27	<b>Material:</b>			<b>Valve Parameters</b>				
28								
29	Body:	1.0460				Ø seat	65	mm
30	Stem:	1.4122				Kvs Value:	max. 199	m³/h
31	Plug:	1.0460				delta p actuator	3	bar
32			Control characteristic:	Dimensions: 340,0 mm				
33	Gaskets:	Grafit	linear	170,0 mm				
34								
35								
36								
37	<b>Design &amp; Tests acc. to:</b>	Pressure Equipment Directive 2014/68/EU						
38		Requirements acc. to: EN 12952						
39		Leakage: 1,5% of Kvs-value						
40		Factory Acceptance Test Certificate acc. to EN 10204-3.1						
41	<b>Installation requirements:</b>							
42								
43	<b>Actuator type:</b>	pneumatisch				3181120		
44	Model:	Protact PR216S.PRH; einfachwirk. Schwenkantrieb, FC, fail to close, Luft öffnet, Federkraft schließt						
45	Stellungsregler:	Siemens Sipart PS2 - 6DR5011-0NG01-0AA1, inkl. Iy-Modul für Stellungsrückmeldung (4 bis 20mA) /						
46	2-Leiter; Aluminium Block, Filter-Regler SMC AW30-F02G-B Filter-Regler G1/4"							
47	komplett Edelstahl verrohrt, Zuluft: 5,0 bar(g)							
48	Actuator adaption: acc. ISO 5211							
49	<b>Remarks:</b>							
50								
51	Eingang 1(A) immer geöffnet, Ausgang 2(B) & Ausgang 3(C) geregelt							
52								
53								
54	Revision:	0	1	2	3	4		
55	Date:	02.05.2023						
56	Prepared:	C. Pocher						
57	Checked:	D. Hermann						