

# Control Valve



ARTES Valve & Service GmbH  
Parkallee 7 - 16727 Velten  
GERMANY

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	Richard Kablitz GmbH	ARTES-ref.-no.:	5504246																		
2	Plant:	Bihov	Pos.:	8																		
3	Location:	3-Way valve	Qty.:	1																		
4	TAG No.:	1 LAB40 AA001	S/N:	3168070.1																		
5	<b>Pipe - Connection Data</b>		<b>Connection 1</b>	<b>Connection 2</b>	<b>Connection 3</b>																	
6	Dimensions	ØD [mm] x s [mm]	114,3 x 8,0	168,3 x 12,5	168,3 x 12,5																	
7	Material		P265GH	P265GH	P265GH																	
8	Welding Connection	ØD [mm] x s [mm]	118,3 x 10,0	170,3 x 13,5	170,3 x 13,5																	
9	Flange Connection		--	--	--																	
10	<b>Valve - Design</b>		<b>Connection 1</b>	<b>Connection 2</b>	<b>Connection 3</b>																	
11	Nominal Size	DN / NPS	100	150	150																	
12	Nominal Pressure	PN / class	--	--	--																	
13	Design Pressure	bar(g)	136	136	136																	
14	Design Temperature	°C	314	314	314																	
15	Material		1.5415	1.5415	1.5415																	
16																						
17	<b>Operation Data</b>		<b>Loading Case 1</b>	<b>Loading Case 2</b>	<b>Loading Case 3</b>	<b>Loading Case 4</b>	<b>Loading Case 5</b>	<b>Loading Case 6</b>	<b>Loading Case 7</b>	<b>Loading Case 8</b>												
18	Medium:	Water/Steam	Outlet 1	Outlet 2	Outlet 1	Outlet 2	Outlet 1	Outlet 2	Outlet 1	Outlet 2	Outlet 1	Outlet 2	Outlet 1	Outlet 2	Outlet 1	Outlet 2						
19	Flowrate	t/h	0,00	15,00	2,50	43,50	12,96	31,04	4,68	39,32	28,80	15,20	0,00	66,88								
20	Temperature, Inlet	°C	115	115	115	115	115	115	115	115	115	115	115	115								
21	Pressure, Inlet	barG	65,80	65,80	65,80	65,80	94,00	94,00	94,00	94,00	94,00	94,00	94,00	94,00								
22	Pressure, Outlet	barG	65,60	65,50	65,60	65,20	93,80	93,40	93,70	93,60	93,60	93,70	93,80	93,40								
23																						
24	K <sub>V</sub> value	m <sup>3</sup> /h	-	28,35	5,74	59,88	30,01	51,80	8,77	66,85	47,86	24,80	-	97,47								
25	Flow Speed, Outlet	m/s	-	-	-	-	-	-	-	-	-	-	-	0,71								
26	<b>Type Of Valve</b>		<b>3-Way Valve - Distributor</b>																			
27	<b>Material</b>												<b>Valve Parameter</b>									
28													Seat Diameter:					65	mm			
29	Body:	1.5415											K <sub>VS</sub> Value:					160	m <sup>3</sup> /h			
30	Stem:	1.4122											max. Δp Actuator:					5	bar			
31	Seat:	1.5415											Installation Length::					400/200	mm			
32																						
33																						
34	Seals:	Graphite																				
35																						
36																						
37	<b>Design / Inspection</b>																					
38			Requirements acc. to:					EN 12952														
39			Leakage Class:					1,5% of K <sub>VS</sub> -Value														
40	<b>Final Inspection Confirmation acc. to DIN EN 10204</b>		<b>3.1</b>																			
41																						
42	<b>Actuator</b>	pneumatic											3168049									
43	Type:	ProtACT PR263S.10.090.14S36.PRH, single-acting, spring closes																				
44		Positioner: Siemens Sipart PS2 - 6DR5011-0NG21-0AA1, incl. Iy-Module for position feedback (4 ... 20mA)																				
45		Type: 6DR4004-8J; incl. limit transmitter SIA-Module; inductive limit switches; incl.gauge block made of plastic																				
46		aluminium block, filter regulator SMC AW30-F02G-B 1/4" incl. pressure gauge																				
47		completely piped in stainless steel, air supply: 5,0 bar(g)																				
48	<b>Remarks</b>																					
49																						
50																						
51																						
52																						
53																						
54	Revision	0	1	2	3	4	5	6														
55	Date:	11.06.2021	11.10.2021																			
56	Prepared:	F. Lange	P. Schüler																			
57	Checked:	P. Schüler	R. Feldmann																			