

# 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.:		10.3		
3	Location:	injection water control valve - HDU	Qty.:		1		
4	TAG No.:	1 LAE40 AA005	S/N:		3168076.1		
5	<b>Pipe - Connection Data</b>		<b>Inlet</b>			<b>Outlet</b>	
6	Dimensions	ØD [mm] x s [mm]	48,3	x	3,2	48,3	x 3,2
7	Material		1.0425 (P265GH)			1.0425 (P265GH)	
8	Welding Connection	ØD [mm] x s [mm]	48,3	x	3,2	48,3	x 3,2
9	Flange Connection		--			--	
10	<b>Valve - Design</b>		<b>Inlet</b>			<b>Outlet</b>	
11	Nominal Size	DN / NPS	40			40	
12	Nominal Pressure	PN / class	--			--	
13	Design Pressure	bar(g)	40			40	
14	Design Temperature	°C	125			125	
15	Material		1.0460 (P250GH, C22.8)			1.0460 (P250GH, C22.8)	
16	<b>Operation Data</b>		<b>Loading Case</b>	<b>Loading Case</b>	<b>Loading Case</b>	<b>Loading Case</b>	<b>Loading Case</b>
17	Medium :	Water/Steam	1	2	3	4	5
18	Phase		water	water			
19	Flowrate	t/h	8,62	0,57			
20	Temperature, Inlet	°C	115,00	115,00			
21	Pressure, Inlet	barA	27,00	27,00			
22	Pressure, Outlet	barA	11,80	1,70			
23	kvs	m³/h	2,28	0,12			
24	Flow Speed, Outlet	m/s	1,83	0,12			
25	<b>Type Of Valve</b> Control Ball Valve Type GW						
26	<b>Valve Parameter</b>			<b>Material</b>			
27	Seat Diameter:	25 mm	Body: 1.0460 (P250GH, C22.8)				
28	Pressure Reduction Steps, controlled:	1	Seating: 1.4122 (X39CrMo17-1), metal sealing				
29	Pressure Reduction Steps, fix:	0	Ball: 1.4122 (X39CrMo17-1), metal sealing				
30	kvs	3,60 m³/h	Control disc: 1.4122 (X39CrMo17-1), hardened				
31	Control Characteristic:	equal percentage	Seals: O-Rings, EPDM perox.				
32	max. Dp for Actuator:	30 bar					
33	Installation Length:	190 mm					
34							
35	<b>Design / Inspection</b>					<b>Final Inspection</b>	
36						<b>Confirmation acc. to DIN EN 3.1</b>	
37	Requirements acc. to:	EN 12952	10204				
38	Leakage Class:	0,01% of kvs-Value					
39							
40	<b>Actuator</b>	pneumatic					3169373
41	Type:	ProtACT PR216S.10.090.14S36.PRH, single-acting, spring closes					
42		Positioner: Siemens Sipart PS2 - 6DR5011-0NG21-0AA1, incl. ly-Module for position feedback (4 ... 20mA)					
43		Typee: 6DR4004-8J; incl. liwithout transwithutter SIA-Module; inductive liwithout switches; incl.gauge block made of plastic					
44		aluminium block, filter regulator SMC AW30-F02G-B 1/4" incl. pressure gauge					
45		completely piped in stainless steel, air supply: 5,0 bar(g)					
46	<b>Actuatoradaption:</b>	EN ISO 5211 - F14 - square 36 mm					
47	<b>Remarks</b>						
48							
49							
50							
51							
52	- design with 2 seat rings						
53	Revision	0	1	2	3	4	5
54	Date:	11.06.2021	11.10.2021				
55	Prepared:	F. Lange	P. Schüler				
56	Checked:	P. Schüler	R. Feldmann				