

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.:		12.3		
3	Location:	injection water control valve - NDU	Qty.:		1		
4	TAG No.:	1 LAE20 AA005	S/N:		3168083.1		
5	Pipe - Connection Data		Inlet			Outlet	
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	Valve - Design		Inlet			Outlet	
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	Operation Data		Loading Case	Loading Case	Loading Case	Loading Case	Loading Case
17	Medium :	Water/Steam	1	2	3	4	5
18	Phase		water	water	water		
19	Flowrate	t/h	7,57	6,75	1,16		
20	Temperature, Inlet	°C	115,00	115,00	115,00		
21	Pressure, Inlet	barA	27,00	27,00	27,00		
22	Pressure, Outlet	barA	15,00	12,50	2,80		
23	kvs	m³/h	2,25	1,82	0,25		
24	Flow Speed, Outlet	m/s	1,61	1,44	0,25		
25	Type Of Valve Control Ball Valve Type GW						
26	Valve Parameter				Material		
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	3,20	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	Design / Inspection				Final Inspection		
36					Confirmation acc. to DIN EN 3.1		
37	Requirements acc. to:	EN 12952		10204			
38	Leakage Class:	0,01% of kvs-Value					
39							
40	Actuator	pneumatic					3169373
41	Type:	ProtACT PR216S.10.090.14S36.PRH, single-acting, spring closes					
42		Positioner: Siemens Sipart PS2 - 6DR5011-0NG21-0AA1, incl. Iy-Module for position feedback (4 ... 20mA)					
43		Typeeee: 6DR4004-8J; incl. liwithout transwithoutter 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	Actuatoradaption:	EN ISO 5211 - F14 - square 36 mm					
47	Remarks						
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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				