

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.:	4
3	Location:	feed-water control valve	Qty.:	1
4	TAG No.:	1 LAB20 AA001	S/N:	3168066.1

5	Pipe - Connection Data	Inlet			Outlet		
6	Dimensions ØD [mm] x s [mm]	139,7	x	10,0	139,7	x	10,0
7	Material		
8	Welding Connection ØD [mm] x s [mm]	139,7	x	10,0	139,7	x	10,0
9	Flange Connection	--			--		

10	Valve - Design	Inlet			Outlet		
11	Nominal Size DN / NPS	125			125		
12	Nominal Pressure PN / class	--			--		
13	Design Pressure bar(g)	139			139		
14	Design Temperature °C	150			150		
15	Material	1.0460 (P250GH, C22.8)			1.0460 (P250GH, C22.8)		

16	Operation Data	Loading Case					
17	Medium : Water/Steam	1	2	3	4	5	6
18	Phase	water	water	water	water	water	
19	Flowrate t/h	5,00	5,00	25,00	50,00	62,50	
20	Temperature, Inlet °C	20,00	110,00	115,00	115,00	115,00	
21	Pressure, Inlet barG	106,60	106,60	102,60	99,60	99,60	
22	Pressure, Outlet barG	0,00	0,00		96,60	96,60	
23	kvs m³/h	0,50	0,51		30,0	37,7	
24	Flow Speed, Outlet m/s	0,12	4,91		1,30	1,62	

25 **Type Of Valve** Control Ball Valve Type GW

26	Valve Parameter			Material	
27	Seat Diameter:	65	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	45	m³/h	Control disc:	1.4122 (X39CrMo17-1), hardened
31	Control Characteristic:	equal percentage		Seals:	O-Rings, EPDM perox.
32	max. Dp für Actuator:	139	bar		
33	Installation Length:	360	mm		
34					

35	Design / Inspection	Final Inspection Confirmation acc. to DIN EN 10204	3.1
36			
37	Requirements acc. to: EN 12952		
38	Leakage Class: 0,01% of kvs-Value		
39			

40	Actuator pneumatic	3168048
41	Type: ProtACT PR587S.10.090.16S46.PRH, single-acting, spring closes	
42	Positioner: Siemens Sipart PS2 - 6DR5011-0NG21-0AA1, incl. Iy-Module for position feedback (4 ... 20mA)	
43	Type: 6DR4004-8J; incl. limit transmitter SIA-Module; inductive limit switches; incl.gauge block made of plastic	
44	aluminium block, volume booster SMC EIL100-F02 G1/4"; 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 - F16 - multi-toothing	

47	Remarks
48	ATTENTION!
49	- Loading Case 1 - CAVITATION
50	- Loading Case 2 - FLASHING
51	
52	Rangeability 1:50

53	Revision	0	1	2	3	4	5	6
54	Date:	11.06.2021	11.10.2021					
55	Prepared:	F. Lange	P. Schüler					
56	Checked:	P. Schüler	R. Feldmann					