

Control Valve



ARTES Valve & Service GmbH
Parkallee 7 - 16727 Velten
GERMANY

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	ARTES-ref.-no.:		5504246			
2	Plant:	Pos.:		11.3			
3	Location: injection water control valve - MDU	Qty.:		1			
4	TAG No.: 1 LAE60 AA005	S/N:		3168080.1			
5	Pipe - Connection Data	Inlet			Outlet		
6	Dimensions ØD [mm] x s [mm]	33,7	x	3,2	33,7	x	3,2
7	Material	1.0425 (P265GH)			1.0425 (P265GH)		
8	Welding Connection ØD [mm] x s [mm]	33,7	x	3,2	33,7	x	3,2
9	Flange Connection	--			--		
10	Valve - Design	Inlet			Outlet		
11	Nominal Size DN / NPS	25			25		
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	Loading Case
17	Medium : Water/Steam	1	2	3	4	5	6
18	Phase	water	water	water			
19	Flowrate t/h	1,59	1,23	0,43			
20	Temperature, Inlet °C	115,00	115,00	115,00			
21	Pressure, Inlet barA	27,00	27,00	27,00			
22	Pressure, Outlet barA	17,50	11,70	3,75			
23	kvs m³/h	0,53	0,32	0,09			
24	Flow Speed, Outlet m/s	0,80	0,62	0,22			
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 0,75 m³/h				Control disc: 1.4122 (X39CrMo17-1), hardened		
31	Control Characteristic: equal perc. mod.				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						
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				