

# 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.:		3			
3	Location: quick drain control valve	Qty.:		1			
4	TAG No.: 1 HAD10 AA001	S/N:		3168065.1			
5	<b>Pipe - Connection Data</b>	<b>Inlet</b>			<b>Outlet</b>		
6	Dimensions ØD [mm] x s [mm]	60,3	x	3,2	60,3	x	3,2
7	Material	...			...		
8	Welding Connection ØD [mm] x s [mm]	61,9	x	4,0	61,9	x	4,0
9	Flange Connection	--			--		
10	<b>Valve - Design</b>	<b>Inlet</b>			<b>Outlet</b>		
11	Nominal Size DN / NPS	50			50		
12	Nominal Pressure PN / class	--			--		
13	Design Pressure bar(g)	102			102		
14	Design Temperature °C	314			314		
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>	<b>Loading Case</b>
17	Medium : Water/Steam	1	2	3	4	5	6
18	Phase	water	water	water			
19	Flowrate t/h	0,41	2,07	6,90			
20	Temperature, Inlet °C	20,00	305,00	305,00			
21	Pressure, Inlet barG	0,20	91,20	91,20			
22	Pressure, Outlet barG	0,00	1,80	8,20			
23	kvs m³/h	0,92	0,57	1,89			
24	Flow Speed, Outlet m/s	0,05	61,8	55,3			
25	<b>Type Of Valve</b>	<b>Control Ball Valve Type W</b>					
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 2,25 m³/h				Control disc: 1.4122 (X39CrMo17-1), hardened		
31	Control Characteristic: linear				Seals: Graphite		
32	max. Dp for Actuator: 102 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					<b>10204</b>	
38	Leakage Class: 0,01% of kvs-Value						
39							
40	<b>Actuator</b> electric					3168047	
41	Type: auma SAR07.6 & GS63.3 & AC01.2						
42	U = 400V / 50Hz / 3ph						
43	terminal plan: TPA 00R1AA-0A1-000, TPC A-1B1-1C2-A000						
44	positioning time: ca. 35 sec. / 90°						
45							
46	<b>Actuatoradaption:</b> EN ISO 5211 - F10 - square 17 mm						
47	<b>Remarks</b>						
48	<b>ATTENTION!</b>						
49	- Loading Case 2 & 3 - FLASHING						
50							
51							
52	- Loading Case 2 & 3 - Temperature changed (phase - liquid)						
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				