

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.: 5						
3	Location: sootblower pressure retention valve	Qty.: 1						
4	TAG No.: 1 HCB10 AA001	S/N: 3168067.1						
5	Pipe - Connection Data	Inlet			Outlet			
6	Dimensions ØD [mm] x s [mm]	88,9	x	6,3	114,3	x	5,0	
7	Material			
8	Welding Connection ØD [mm] x s [mm]	88,9	x	6,3	114,3	x	5,0	
9	Flange Connection	--			--			
10	Valve - Design	Inlet			Outlet			
11	Nominal Size DN / NPS	80			100			
12	Nominal Pressure PN / class	--			--			
13	Design Pressure bar(g)	102			31			
14	Design Temperature °C	515			515			
15	Material	1.7380/1.7383 (10CrMo9-10/11CrMo9-10))			1.7380/1.7383 (10CrMo9-10/11CrMo9-10))			
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	steam	steam	steam	steam	steam	steam	
19	Flowrate t/h	0,40	0,60	1,60	3,00	5,00	5,40	
20	Temperature, Inlet °C	495,00	495,00	495,00	495,00	495,00	495,00	
21	Pressure, Inlet barG	84,00	84,00	84,00	84,00	84,00	84,00	
22	Pressure, Outlet barG	0,00	8,75	13,75	25,00	25,00	25,00	
23	kvs m³/h	0,50	0,75	2,00	3,75	6,27	6,77	
24	Flow Speed, Outlet m/s	43,3	6,65	11,7	12,4	20,7	22,4	
25	Type Of Valve	Control Ball Valve Type W						
26	Valve Parameter				Material			
27	Seat Diameter: 40 mm				Body: 1.7380/1.7383 (10CrMo9-10/11CrMo9-10))			
28	Pressure Reduction Steps, controlled: 1				Seating: 1.4923 (X22CrMoV12-1), metal sealing			
29	Pressure Reduction Steps, fix: 0				Ball: 1.4923 (X22CrMoV12-1), metal sealing			
30	kvs 8,5 m³/h				Control disc: 1.4923 (X22CrMoV12-1), hardened			
31	Control Characteristic: linear				Seals: Graphite			
32	max. Dp für Actuator: 102 bar							
33	Installation Length: 295 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						3168049	
41	Type: ProtACT PR263S.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	Type: 6DR4004-8J; incl. limit transmitter SIA-Module; inductive limit 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 - multi-toothing							
47	Remarks							
48	ATTENTION!							
49	- CHOKED FLOW							
50								
51								
52								
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					