

# 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.:		5		
3	Location:	sootblower pressure retention valve	Qty.:		1		
4	TAG No.:	1 HCB10 AA001	S/N:		3168067.1		
5	<b>Pipe - Connection Data</b>		<b>Inlet</b>			<b>Outlet</b>	
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	<b>Valve - Design</b>		<b>Inlet</b>			<b>Outlet</b>	
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	<b>Operation Data</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
18	Phase		steam	steam	steam	steam	steam
19	Flowrate	t/h	0,40	0,60	1,60	3,00	5,00
20	Temperature, Inlet	°C	495,00	495,00	495,00	495,00	495,00
21	Pressure, Inlet	barG	84,00	84,00	84,00	84,00	84,00
22	Pressure, Outlet	barG	0,00	8,75	13,75	25,00	25,00
23	kvs	m³/h					
24	Flow Speed, Outlet	m/s					
25	<b>Type Of Valve</b> Control Ball Valve Type W						
26	<b>Valve Parameter</b>			<b>Material</b>			
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	<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>	pneumatic					3168049
41	Type:	ProtACT PR263S.10.090.14S36.PRH, single-acting, spring closes					
42		Positioner: Siemens Sipart PS2 - 6DR5011-0NG21-0AA1, incl. ly-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	<b>Actuatoradaption:</b>	EN ISO 5211 - F14 - multi-toothing					
47	<b>Remarks</b>						
48	<b>ATTENTION!</b>						
49	- CHOKED FLOW						
50							
51							
52							
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				