

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.:		1			
3	Location: start-up control valve	Qty.:		1			
4	TAG No.: 1 LBH10 AA010	S/N:		3168063.1			
5	Pipe - Connection Data	Inlet			Outlet		
6	Dimensions ØD [mm] x s [mm]	101,6	x	11,0	273,0	x	6,3
7	Material		
8	Welding Connection ØD [mm] x s [mm]	101,6	x	11,0	273,0	x	6,3
9	Flange Connection	--			--		
10	Valve - Design	Inlet			Outlet		
11	Nominal Size DN / NPS	80			250		
12	Nominal Pressure PN / class	--			--		
13	Design Pressure bar(g)	102			16		
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			
19	Flowrate t/h	2,00	18,40	15,40			
20	Temperature, Inlet °C	194,00	353,00	495,00			
21	Pressure, Inlet barG	4,00	28,00	87,00			
22	Pressure, Outlet barG	0,00	3,00	6,00			
23	Σ-kv m³/h	31,7	57,1	18,1			
24	Flow Speed, Outlet m/s	21,8	66,0	38,0			
25	Type Of Valve	Control Ball Valve Type W					
26	Valve Parameter				Material		
27	Seat Diameter: 100 mm				Body: 1.7380/1.7383 (10CrMo9-10/11CrMo9-10))		
28	Pressure Reduction Steps, controlled: 2				Seating: 1.4923 (X22CrMoV12-1), metal sealing		
29	Pressure Reduction Steps, fix: 0				Ball: 1.4923 (X22CrMoV12-1), metal sealing		
30	Σ-kvs 57 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: 550 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						3167848
41	Type: ProtACT PRY.B2.401S.04.2530.KØ100/2x28.PRH, Type Scotch Joke, 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 - F25 - multi-toothed						
47	Remarks						
48	- control contour - partial hole contour						
49							
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				