

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.:	11.1				
3	Location:	MDU	Qty.:	1				
4	TAG No.:	1 LBG10 AA101	S/N:	3168077.1				
5	Pipe - Connection Data		Inlet		Outlet			
6	Dimensions	ØD [mm] x s [mm]	60,3	x	5,0	273,0	x	6,3
7	Material		1.7380 (10CrMo9-10)		1.7335 (13CrMo4-5)			
8	Welding Connection	ØD [mm] x s [mm]	60,3	x	5,0	273,0	x	6,3
9	Flange Connection		--		--			
10	Valve - Design		Inlet		Outlet			
11	Nominal Size	DN / NPS	50		250			
12	Nominal Pressure	PN / class	--		--			
13	Design Pressure	bar(g)	102		15			
14	Design Temperature	°C	530		250			
15	Material		1.7380/1.7383 (10CrMo9-10/11CrMo9-10)		1.7335 (13CrMo4-5)			
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	5,50	4,25	1,50			
20	Temperature, Inlet	°C	495,00	495,00	495,00			
21	Pressure, Inlet	barA	85,00	85,00	85,00			
22	Pressure, Outlet	barA	2,60	2,60	2,60			
23	kv	m³/h	8,95	7,15	2,67			
24								
25	Sound Pressure Level ¹⁾	db(A)	85	85	76			
26	Type Of Valve		Angle Valve					
27	Valve Parameter					Material		
28	Seat Diameter:	35 mm				Body: 1.7380/1.7383 (10CrMo9-10/11CrMo9-10)		
29	Pressure Reduction Steps, controlled:	2				Seat: 1.7380/1.7383 (10CrMo9-10/11CrMo9-10), stellited		
30	Pressure Reduction Steps, fix:	1				Stem with		
31	K _{VS} -value	11,5 m³/h				Holecage: 1.4923 (X22CrMoV12-1), nitrided		
32	Control Characteristic:	linear						
33	Stroke:	26 mm				Seals: Graphite		
34	max. Dp for Actuator:	85 bar				Packing: Graphite K80/K80S		
35	Installation Length:	380/180 mm						
36	Design / Inspection					Final Inspection		
37						Confirmation acc. to DIN 3.1		
38	Requirements acc. to:	EN 12952				EN 10204		
39	Leakage Class:	0,5% of K _{VS} -value						
40								
41	Actuator	pneumatic				3168580		
42	Type:	ARCA - diaphragm actuator UMA III 811-2042D-Ö BH, single acting, air opens, spring closes, Fail-Safe - closed						
43	Positioner:	Siemens Sipart PS2 - 6DR5011-0NG21-0AA1, incl. Iy-Module for position feedback (4 ... 20mA)						
44		2 inductive limit switches; gauge block; solenoid valve Bückert 24VDC 3/2 way, filter regulator Festo						
45		Type: LFR-N1/4-D-5M-O-MIDI-T3-EX4, volume booster YTC YT-300 with 2 one-way flow control valves for						
46		a positioning time of approx. 2 sec. in both directions						
47								
48	Remarks							
49	¹⁾ - sound insulation at least 130,0 mm thick, without rigid spacers							
50								
51								
52	Installation position - stem with holecage horizontal, flow from above, drainage at 6:00 o'clock position							
53	"Piston Release Design"							
54	Revision	0	1	2	3	4	5	6
55	Date:	11.06.2021	11.10.2021	08.11.2021				
56	Prepared:	F. Lange	P. Schüler	P. Schüler				
57	Checked:	P. Schüler	R. Feldmann	R. Feldmann				