

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.:	12.1			
3	Location:	NDU		Qty.:	1			
4	TAG No.:	1 LBS10 AA101		S/N:	3168081.1			
5	Pipe - Connection Data		Inlet		Outlet			
6	Dimensions	ØD [mm] x s [mm]	114,3	x	11,0	508,0	x	11,0
7	Material		1.7380 (10CrMo9-10)			1.7335 (13CrMo4-5)		
8	Welding Connection	ØD [mm] x s [mm]	114,3	x	11,0	508,0	x	11,0
9	Flange Connection		--			--		
10	Valve - Design		Inlet		Outlet			
11	Nominal Size	DN / NPS	100			500		
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	26,00	23,20	4,00			
20	Temperature, Inlet	°C	495,00	495,00	495,00			
21	Pressure, Inlet	barA	85,00	85,00	85,00			
22	Pressure, Outlet	barA	2,50	2,50	2,50			
23	kv	m³/h	35,36	31,50	5,42			
24								
25	Sound Pressure Level ¹⁾	db(A)	86	86	76			
26	Type Of Valve	Angle Valve						
27	Valve Parameter				Material			
28	Seat Diameter:	65	mm	Body:				1.7380/1.7383 (10CrMo9-10/11CrMo9-10)
29	Pressure Reduction Steps, controlled:	5		Seat:				1.7380/1.7383 (10CrMo9-10/11CrMo9-10), stellite
30	Pressure Reduction Steps, fix:	1		Stem with				
31	K _{VS} -value	46	m³/h	Holecage:				1.4923 (X22CrMoV12-1), nitrided
32	Control Characteristic:	linear		Seals:				Graphite
33	Stroke:	40	mm	Packing:				Graphite K80/K80S
34	max. Dp for Actuator:	85	bar					
35	Installation Length:	650/325	mm					
36	Design / Inspection					Final Inspection		
37						Confirmation acc. to DIN		
38	Requirements acc. to:	EN 12952			3.1			
39	Leakage Class:	0,5% of K _{VS} -value			EN 10204			
40								
41	Actuator	pneumatic					3168051	
42	Type:	ARCA - diaphragm actuator UMA III 811-3063D-Ö BH, single acting, air opens, spring closes, Fail-Safe - closed						
43	Positioner:	Siemens Sipart PS2 - 6DR5011-0NG21-0AA1, incl. ly-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-N1/2-D-5M-O-MIDI-T3-EX4, volume booster YTC YT-320-N1 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 150,0 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					
56	Prepared:	F. Lange	P. Schüler					
57	Checked:	P. Schüler	R. Feldmann					