

# Control Valve



ARTES Valve & Service GmbH  
Parkallee 7 - 16727 Velten  
GERMANY

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	MRC Global (Belgium) NV	ARTES-ref.-no.:	5504243			
2	Plant:	Biowanze II - Vyncke - Project: 1.09839	Pos.:	3			
3	Location:	Belgium	Qty.:	1			
4	TAG No.:	3 LBH10 AA090	S/N:	3168197.1			
5	<b>Pipe - Connection Data</b>		<b>Inlet</b>		<b>Outlet</b>		
6	Dimensions	Ø D [mm] x s [mm]	139,7	x	10,0	219,1	x 10,0
7	Material		--		--		
8	Schweißanschluss	Ø D [mm] x s [mm]	139,7	x	10,0	219,1	x 10,0
9	Flange Connection		--		--		
10	<b>Valve - Design</b>		<b>Inlet</b>		<b>Outlet</b>		
11	Nominal Size	DN / NPS	125		200		
12	Nominal Pressure	PN / class	160		100		
13	Design Pressure	bar(g)	97,7		30		
14	Design Temperature	°C	548		548		
15	Material		1.4903 (X10CrMoVNb9-1)		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	Nr.1 Water/Steam	1	2	3	4	5
18	Phase		steam	steam			
19	Flowrate	t/h	10,00	50,00			
20	Temperature, Inlet	°C	350,00	528,00			
21	Pressure, Inlet	barA	36,00	94,00			
22	Pressure, Outlet	barA	4,00	20,00			
23	Σ-kv	m³/h	23,5	49,7			
24	Flow Speed, Outlet	m/s	60,2	77,6			
25	Sound Pressure Level	dB(A)	78	86			
26	<b>Type Of Valve Control Ball Valve Type W</b>						
27	<b>Valve Parameter</b>			<b>Material</b>			
28	Seat Diameter:	100 mm	Body:		1.4903 (X10CrMoVNb9-1)		
29	Pressure Reduction Steps, controlled:	2	Seating:		1.4923 (X22CrMoV12-1), hard./coat.		
30	Pressure Reduction Steps, fix:	2	Ball:		1.4923 (X22CrMoV12-1), hard./coat.		
31	Σ-kvs	58,2 m³/h	Control disc:		1.4923 (X22CrMoV12-1), hardened		
32	Control Characteristic:	equal percentage, modified	Seals:		Graphite		
33	max. Dp für Actuator:	98 bar					
34	Installation Length:	515 mm					
35							
36	<b>Design / Inspection</b>					<b>Final Inspection Confirmation</b>	
37	Pressure Equipment Directive 2014/68/EU					<b>3.1</b>	
38	Requirements acc. to: EN 12952					<b>acc. to DIN EN 10204</b>	
39	Leakage Class: A acc. to EN 12266-1						
40							
41	<b>Actuator</b>	pneumatic					3167805
42	Type:	ProtACT PRY.B2.451S.04.PRH - single acting "scotch yoke" type, air to open spring to close, signal/air failure: close					
43		E/P positioner Sipart PS2 6DR5110-ONG01-0AA0 with 2-wire connection and HART-interface,					
44		incl. ly-module for position-feedback (4...20mA);					
45		air set YT-200BP210 1/4", piping SST					
46		min. air supply pressure; 4,5bar(g)					
47	<b>Actuatoradaption:</b>	--					
48	<b>Remarks</b>						
49	sound pressure level with sound insulation 150 mm						
50							
51							
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53							
54	Revision	0	1	2	3	4	5
55	Date:	15.06.2021					
56	Prepared:	F. Lange					
57	Checked:	P. Schüler					