

# Motive Steam Cooler



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.:	11.2				
3	Location:	MDU	Qty.:	1				
4	TAG No.:	(1 LBG10 AA101)	S/N:	(3168077.1)				
5	<b>Pipe - Connection Data</b>		<b>Motive Steam</b>	<b>Cooling Water</b>	<b>Steam Pipe</b>			
6	Dimensions	ØD [mm] x s [mm]	internal	33,7 x 3,2	273,0 x 6,3			
7	Material							
8	<b>Motive Steam Cooler - Connection Data</b>		<b>Motive Steam</b>	<b>Cooling Water</b>	<b>Steam Pipe</b>			
9	Nominal Size	DN / NPS	--	25	--			
10	Nominal Pressure	PN / class	--	--	--			
11	Design Pressure	bar(g)	--	105	--			
12	Design Temperature	°C	--	125	--			
13	Material		--	1.7380/1.7383	--			
14	Welding Connection	ØD [mm] x s [mm]	--	x	--			
15	Flange Connection		--	--	--			
16								
17	<b>Operation Data</b>							
18			<b>Loading Case</b>	<b>Loading Case</b>	<b>Loading Case</b>	<b>Loading Case</b>	<b>Loading Case</b>	
19			<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	
20	Medium:	steam						
21	Flowrate	t/h	5,50	4,25	1,50			
22	Temperatur, Inlet	°C	450,0	450,0	450,0			
23	Temperatur, Outlet	°C	1337,0	133,7	133,7			
24	Pressure	barA	2,60	2,60	2,60			
25	Flow Speed	m/s	26,30 <sup>1)</sup>	20,30	7,20			
26								
27	Medium:	water						
28	Flowrate	t/h	1,59	1,23	0,43			
29	Temperature	°C	115	115	115			
30	Pressure, Inlet	barA	17,50	11,70	3,75			
31	Pressure, Outlet	barA	2,60	2,60	2,60			
32	Flow Speed	m/s	0,80	0,60	0,20			
33	kv	m³/h	0,42	0,42	0,42			
34								
35	Medium:	motive steam						
36	Flowrate	t/h	0,48					
37	Temperatur, Inlet	°C	459,79	458,81	457,43			
38	Pressure, Inlet	barA	19,00	17,30	15,10			
39	Pressure, Outlet	barA	2,60	2,60	2,60			
40	kv	m³/h	2,92	2,92	2,92			
41								
42	<b>Type Of Valve</b>		<b>Motive Steam Cooler - Type 3</b>					
43	<b>Design / Inspection</b>							
44	Requirements acc. to:		EN 12952					
45	<b>Mounting Instruction</b>							
46	Length of straight outflow pipe				≥ 5,0 m			
47	Min-Distance to the temperature sensor				8,0 m			
48	<b>Remarks</b>							
49	<sup>1)</sup> - flow speed "hot" => 37,2 m/s							
50								
51								
52								
53	- internal motive steam extraction							
54	The motive steam cooler is part of the control valve - 1 LBG10 AA101!							
55	Revision	0	1	2	3	4	5	6
56	Date:	11.06.2021	11.10.2021					
57	Prepared:	F. Lange	P. Schüler					
58	Checked:	P. Schüler	R. Feldmann					