

3-Way Valve



ARTES Valve & Service GmbH
Parkallee 7 - 16727 Velten
GERMANY

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	Doosan Lentjes GmbH	ARTES-ref.-no.:	5504547		
2	Plant:	A.12019 - Warsaw WTE	Pos.:	8		
3	Location:	3-Way Control Valve - Feed Water Drum Heat Exchanger	Qty.:	2		
4	KKS No.:	21/31 LAB40 AA002	S/N:	3176840.1 & 3176840.2		
5	Pipe - Connection Data		Connection A	Connection B	Connection C	
6	Dimensions	Ø D [mm] x s [mm]	114,3 x 5,6	114,3 x 5,0	76,1 x 5,6	
7	Material		1.0345	1.0345	1.0345	
8	Welding Connection	Ø D [mm] x s [mm]	114,3 x 5,6	114,3 x 5,0	76,1 x 5,0	
9	Flange Connection		--	--	--	
10	Valve - Design Data		Connection A	Connection B	Connection C	
11	Nominal Size	DN / NPS	100	100	65	
12	Nominal Pressure	PN / class	100	100	100	
13	Design Pressure	bar(g)	64	64	64	
14	Design Temperature	°C	277	277	277	
15	Material		1.0460	1.0460	1.0460	
16	Test Pressure - Body Strength		150,0 bar			
17	Operation Data		Load Case	Load Case	Load Case	Load Case
18	Medium:	Water	1	2	3	4
19	Flow Rate	kg/s	10,50	13,58		
20	Temperature	°C	130,0	130,0		
21	Pressure, Inlet	bar(a)	55,30	54,80		
22	Pressure, Outlet	bar(a)	54,60	54,10		
23	Kv Value	m³/h	46,66	52,15		
24	Flow Speed, Outlet	m/s	--	1,17		
25						
26	Type Of Valve 3-Way Valve - Type W (Divider)					
27	Material			Valve Parameter		
28						
29	Body:	1.0460				
30	Stem:	1.4122				
31	Plug:	1.0460				
32						
33	Seals:	Graphite				
34			Seat Diameter:	65	mm	
35			Kvs Value:	max. 195	m³/h	
36			max. dp actuator:	2	bar	
37	Design / Inspection		Pressure Equipment Directive 2014/68/EU Requirements acc. to: EN 12952 Leakage class: 1,5% of Kvs-value Final Inspection Confirmation acc. to: DIN EN 10204 - 3.1			
38						
39						
40						
41	Mounting Instruction					
42						
43	Actuator type:	electric				3176890
44	Type:	auma SAR07.6, GS63.3 & AC01.2				
45		U = 400V / 50Hz / 3-ph AC				
46		wiring diagram: TPA 00R100-011-000, TPC A-1B1-1C2-A000				
47		positioning time: ca. 35 sec. / 90°				
48						
49	Actuator adaption:	EN ISO 5211 - F10 - square 17 mm				
50	Remarks					
51						
52						
53						
54	Body Strength Test - Test Pressure: p' = 150 bar - Test Medium: Water					
55	Revision	0	1	2	3	4
56	Date:	29.08.2022	26.10.2022			
57	Prepared:	H. Roßmann	R. Feldmann			
58	Checked:	H. Jäkel	P. Schueler			