

3-Way Valve



ARTES Valve & Service GmbH
Parkallee 7 - 16727 Velten
GERMANY

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	Hitachi Zosen Inova Steinmüller GmbH	ARTES-ref.-no.:	5504835			
2	Plant:	Vantaa-HWP	Pos.:	10			
3	Location:	3-Way CV feed water upstream economiser	Qty.:	1			
4	TAG No.:	J5 LAB41 AA010	S/N:	3185134.1			
5	Pipe - Connection Data		Connection 1	Connection 2	Connection 3		
6	Dimensions	Ø D x s [mm x mm]	76,1 x 3,6	76,1 x 3,6	76,1 x 3,6		
7	Material		P235GH-TC2	P235GH-TC2	P235GH-TC2		
8	Weld ends	Ø D x s [mm x mm]	76,1 x 3,6	76,1 x 3,6	76,1 x 3,6		
9	Flange ends		--	--	--		
10	Valve - Connection Data		Connection 1	Connection 2	Connection 3		
11	Nominal Pipe Size	DN / NPS	65	65	65		
12	Nominal Pressure (Rating Class)	PN / class	--	--	--		
13	Material		1.0460 (P250GH)	1.0460 (P250GH)	1.0460 (P250GH)		
14	Valve - Design Data						
15	Design Pressure	[bar(g)]	34				
16	Design Temperature	[°C]	243				
17	Nominal Pressure (Rating Class)	PN / class	--				
18	Material		1.0460 (P250GH)				
19	Hydraulic Test Pressure		--				
20	Operation Data		LC 1	LC 6	LC 7	LC 4	
21	Medium:	Water	100% to ECO	Max flow to ECO	Max flow to preheater	10% to ECO	
22	Flowrate	[kg/s]	7,89	9,71	9,71	0,79	
23	Temperature	[°C]	130	130	130	130	
24	Pressure, Inlet	[bar(g)]	26,80	26,80	27,10	26,96	
25	Pressure, Outlet	[bar(g)]	26,30	26,30	26,30	26,3	
26	K _v -Value	[m³/h]	41,64	51,13	40,41	3,62	
27	velocity outlet	[m/s]	2,26	2,78			
28							
29	Valve type 3-Way Valve - Divider - Type W						
30	Material:			Valve Parameters			
31							
32	Body:	1.0460 (P250GH)				Seat Diameter:	65 mm
33	Stem:	1.4122 (X39CrMo17-1)				K _{VS} -Value:	max. 200 m³/h
34	Plug:	1.0460 (P250GH)				max. Δp for actuator:	2 bar
35	Gaskets:	Graphite				Control Characteristic:	linear
36				Install. Length	ca. 430 mm		
37							
38				ca. 300 mm			
39							
40	Design / Inspection:		Pressure Equipment Directive 2014/68/EU				
41			Requirements acc. to: EN 12952				
42			Leakage: ca. 1,5% of K _{VS} - value				
43	Final Inspection Certificate acc. to DIN EN 10204		3.1				
44							
45	Actuator:		electric			3185136	
46	Type:	auma SQR10.2 and AC01.2					
47	U = 400V / 50Hz / 3ph						
48	TPC A-1B2-1H2-A000 / TPA 00R100-0I1-000						
49							
50	Actuatoradaption:						
51	Remarks:						
52							
53							
54							
55	Revision:	0	1	2	3	7	
56	Date:	11.12.2023					
57	Prepared:	H. Roßmann					
58	Checked:	H. Jäkel					