

# 3-Way Valve

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	MRC Global (France)	ARTES-ref.-no.:	5504959			
2	Project:	Benesse Maremne	Pos.:	10			
3	Location:	Flow regulation of feedwater	Qty.:	1			
4	TAG No.:	134 TCV250	S/N:	3187835.1			
5	<b>Pipe - Connection Data</b>		Connection 1	Connection 2	Connection 3		
6	Dimensions	Ø D x s [mm x mm]	73,0 x 5,0	73,0 x 5,0	73,0 x 5,0		
7	Material		SA 105	SA 105	SA 105		
8	Weld ends	Ø D x s [mm x mm]					
9	Flange ends		ASME B16.5 RF	ASME B16.5 RF	ASME B16.5 RF		
10	<b>Valve - Connection Data</b>		Connection 1	Connection 2	Connection 3		
11	Nominal Pipe Size	DN / NPS	2 1/2"	2 1/2"	2 1/2"		
12	Nominal Pressure (Rating Class)	PN / class	900	900	900		
13	Material		SA 105	SA 105	SA 105		
14	<b>Valve - Design Data</b>						
15	Design Pressure	[bar(g)]		71			
16	Design Temperature	[°C]		175			
17	Nominal Pressure (Rating Class)	PN / class		900			
18	Material			SA 105			
19	<b>Hydraulic Test Pressure</b>			--			
20	<b>Operation Data</b>		<b>Loading Case</b>	<b>Loading Case</b>	<b>Loading Case</b>		
21	Medium:	Feed Water	<b>1</b>	<b>2</b>	<b>3</b>		
22	Flowrate	[kg/s]					
23	Temperature	[°C]					
24	Pressure, Inlet	[bar(g)]					
25	Pressure, Outlet	[bar(g)]					
26	K <sub>v</sub> -Value	[m³/h]					
27							
28							
29	<b>Valve type</b> 3-Way Valve - Divider - Type W						
30	<b>Material:</b>		<b>Valve Parameters</b>				
31			Seat Diameter: 65 mm				
32	Body:	SA 105	K <sub>VS</sub> -Value: 200 m³/h				
33	Stem:	1.4122	max. Δp for actuator: 5 bar				
34	Plug:	1.4122	Control Characteristic: linear				
35			Install. Length ca. 400 mm				
36	Gaskets:	Graphite	ca. 200 mm				
37							
38							
39							
40	<b>Design / Inspection:</b>		Pressure Equipment Directive 2014/68/EU				
41			Requirements acc. to: ASME Boiler and Pressure Vessel Code - Sec.VIII, Div.1				
42			Leakage: ca. 1,5% of K <sub>VS</sub> - value				
43	<b>Final Inspection Confirmation acc. to DIN EN 10204</b>		<b>3.1</b>				
44							
45	<b>Actuator:</b>	pneumatic	3187841				
46	Type:	Protact Type PR216D.00.090.14S36PRH, double acting					
47		air set YT-200BP210 1/4" (loosely supplied)					
48		min. air supply pressure; 4,0bar(g)					
49							
50	<b>Actuatoradaption:</b> acc. DIN ISO 5211 F14 / Stem with square 17mm						
51	<b>Remarks:</b>						
52							
53							
54							
55	Revision:	0	1	2	3	7	5
56	Date:	07.05.2024					
57	Prepared:	C. Pocher					
58	Checked:	T. Khallouf					