

Three-Way Valve



ARTES Valve & Service GmbH
Parkallee 7 - 16727 Velten
Deutschland

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	Steinmüller Babcock Environment GmbH				ARTES-Ref.:	5503383									
2	Plant:	San Sebastian				Pos.:	1									
3	Service:	3-way control valve feed water upstream ECO				Qty.:	2									
4	TAG No.:	G11 HAC40 AA451 & G12 HAC40 AA451				Material:	3142786.1 & 3142786.2									
5	Pipeline	Connection 1		Connection 2		Connection 3										
6	Dimensions	Ø D [mm] x s [mm]		114,3 x 8,56		114,3 x 8,56		114,3 x 8,56								
7	Material	A106B		A106B		A106B		A106B								
8	Weld ends	Ø D [mm] x s [mm]		114,3 x 8,56		114,3 x 8,56		114,3 x 8,56								
9	Rohrklasse	9C1		9C1		9C1		9C1								
10	Valve Design	Connection 1		Connection 2		Connection 3										
11	Nom. pipe size	NPS		4"		4"		4"								
12	Nom. Pressure	class		--		--		--								
13	Design Pressure	[bar(g)]		100		100		100								
14	Design Temp.	[°C]		291		291		291								
15	Material	SA105		SA105		SA105		SA105								
16	Hydraulic Test Pressure	150,0 bar														
17	Operational conditions	1		2		3		4		5	6					
18	Medium:	feed water		100% zum TrVoWä.		50% zum TrVoWä.		90% zum TrVoWä.		10% zum ECO 1	100% zum TrVoWä.					
19	Flow	[kg/s]		14,38		1,44		12,94		7,19	7,19					
20	Temperature	[°C]		171		171		171		171	171					
21	p inlet	[bar(g)]		68,34		68,34		68,34		68,34	68,34					
22	p outlet	[bar(g)]		67,54		67,54		67,54		67,87	67,84					
23																
24	Kvs value	[m³/h]		61,00		6,10		54,90		32,00	30,50					
25	speed	[m/s]		-		-		-		-	-					
26	Valve type	Three-Way Valve type W														
27	Material:						Valve Parameters:									
28												Ø Seat: 65 mm				
29	Body:						SA105					K _{VS} Value: 90 m³/h				
30	Stem:						1.4122					max. Δp actuator: 3 bar				
31	Plug:						SA105					Dimensions:				
32																
33																
34	Gaskets:	Graphite														
35																
36																
37	Design & Tests acc. to:	Pressure Equipment Directive 2014/68/EU														
38		Requirements acc. to:					ASME BPVC Sec.VIII Div.1 (ASME B31.1 - Test pressure housing strength)									
39		Leakage:					1,5% from K _{VS} -Value									
40	Installation requiremen:															
41																
42	Actuator	pneumatic / double acting								3142809						
43	Type:	BAR GTD 143, double acting, Retaining safety position														
44		control air 7 bar, Positioner SIPART PS2 - 6DR5120-0NG00-0BA9+R2A, HART Protocoll, 2-wire connection technology,														
45		filter regulator MW-C-1/4-A-20-H-0-8 with 2 Manometer G1/8", Komponenten VA piped														
46																
47	Adaptation to the drive system:	DIN ISO 5211 - F10, Shaft end with square 27 mm														
48	Remarks															
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54	Revision	0		1		2		3		4						
55	Date:	09.04.2018		11.07.2018		10.09.2018										
56	Created:	H. Roßmann		P. Schüler		P. Schüler										
57	Checked:	H. Jäkel		H. Jäkel		H. Jäkel										