

Three-Way Valve



ARTES Valve & Service GmbH
Parkallee 7 - 16727 Velten
GERMANY

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	Oschatz Energy and Environment GmbH	ARTES-Ref.	5503847		
2	Plant:	Anwil	Pos.	1		
3	Service:		Qty.:	1		
4	TAG No.	3121TV 20128	S/N:	3157263.1		
5	Pipeline		Connection A	Connection B	Connection C	
6	Dimensions	Ø D x s [mm]	219,1 x 17,5	219,1 x 17,5	219,1 x 17,5	
7	Material		1.7380	1.7380	1.7380	
8	Weld ends	Ø D x s [mm]	219,1 x 17,5	219,1 x 17,5	219,1 x 17,5	
9	Flange ends		--	--	--	
10	Valve Design		Connection A	Connection B	Connection C	
11	Nom. pipe size	[DN / NPS]	8"	8"	8"	
12	Nom. pressure	[PN / class]	--	--	--	
13	Design Pressure	[bar(g)]	60	60	60	
14	Design Temp.	[°C]	535	535	535	
15	Material		1.7380	1.7380	1.7380	
16	Hydraulic Test Pressure		124,0 bar			
17	Operational conditions		Load Case	Load Case	Load Case	Load Case
18	Medium		1	2	3	4
19	Flow	[t/h]	42,00	60,00	64,00	
20	Temperature	[°C]	495	503	505	
21	Pressure Inlet	[bar(g)]	48,00	48,80	51,80	
22	Pressure Outlet	[bar(g)]	47,94	48,68	51,67	
23	K _{VS} value	[m³/h]	1.445,00	1.445,00	1.445,00	
24						
25						
26	Valve type		Type W			
27	Material:		Valve Parameters			
28						
29	Body:	1.7380		Ø seat	175	mm
30	Stem:	1.4923		Kvs Value:	1.445	m³/h
31	Plug:	1.7380		max. Δp actuator	2	bar
32				Control characteristic:	Dimensions	720,0 mm
33	Gaskets:	Graphite		linear	360,0 mm	
34						
35						
36						
37	Design & Tests acc. to:		PED 2014/68/EU, CE-marking			
38			Requirements acc. to:		EN12952	
39			Leakage:		3...5% of Kvs	
40	Installation requirements:					
41						
42	Actuator type:	pneumatic				3157150
43	Model:	ProtACT PR587S.09.090.16S46.PRH				
44		single acting rack & pinion type, air to open, spring to close				
45		E/P Positioner Samson Type 3730-3 with LCD and AUTOTUNE 4-20mA, HART Communication,				
46		2 software limit contacts; 1 fault signal contacts; II 2 G Ex ia IIC T6...T4 Gb, IP66, ATEX, with analog				
47		position indicator 4-20mA; Filter-Regulator SMC Typ AW40; stainless steel piping				
48		min. air supply pressure: 4,0 bar(g)				
49	Remarks:					
50		Inlet A always open, Outlet B & Outlet C controlled				
51		safety position: A-B open, C closed				
52		with position indicator at valve stem				
53						
54	Revision:	0	1	2	3	4
55	Date:	06.01.2020	05.02.2020	20.02.2020		
56	Prepared:	K. A.Ramadan	P. Schüler	K. A.Ramadan		
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