

Three-Way Valve



ARTES Valve & Service GmbH
Parkallee 7 - 16727 Velten
GERMANY

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	ARVOS GmbH	ARTES-Ref.	5503910		
2	Plant:	Marokko	Pos.	1		
3	Service:	Superheated steam	Qty.:	1		
4	TAG No.	E83-13-TCVT03	S/N:	3159314.1		
5	Pipeline		Connection 1	Connection 2	Connection 3	
6	Dimensions	Ø D x s mm	273 x 15,09	273 x 15,09	219,1 x 12,70	
7	Material		SA335M P12	SA335M P12	SA335M P12	
8	Weld ends	Ø D x s mm	273 x 15,09	273 x 15,09	219,1 x 12,70	
9	Flange ends		--	--	--	
10	Valve Connection Data		Connection 1	Connection 2	Connection 3	
11	Nominal Pipe Size	NPS	10"	10"	8"	
12	Nominal Pressure	class	--	--	--	
13	Material		SA182 F12 Cl2	SA182 F12 Cl2	SA182 F12 Cl2	
14	Valve Design					
15	Design Pressure	bar(g)	85			
16	Design Temp.	°C	450			
17	Material		SA182 F12 Cl2			
18	Nominal Pressure	class	900			
19	Hydraulic Test Pressure					
20	Operational conditions		Load Case	Load Case	Load Case	Load Case
21	Medium:	steam	1	2	3	4
22	Flow	t/h	118,0	130,0		
23	Temperature	°C	400	450		
24	p inlet	bar(g)	74,00	74,00		
25	p outlet	bar(g)	73,82	73,76		
26	Kv value	m³/h	1.884,0	1.884,0		
27	Flow velocity	m/s		32,06		
28						
29	Valve type		Type W, Diverter			
30	Material:		Valve Parameters			
31						
32	Body:	SA182 F12 Cl2	Ø seat	200	mm	
33	Stem:	1.4122	Kvs Value:	1.884	m³/h	
34	Plug:	SA182 F12 Cl2	max. Δp actuator	3	bar	
35			Control characteristic:	linear		
36	Gaskets:	Graphite	Dimensions	800,0 mm		
37				400,0 mm		
38						
39						
40	Design & Tests acc. to:		ASME BPVC Section VIII Division 1			
41						
42			Leakage:	ca. 1,5-3% of Kvs		
43	Installation requirements:					
44						
45	Actuator type:	pneumatic				3159299
46	Model:	PROTACT PR263D.00.090.14S36.PRH, double acting Rack&Pinion type,				
47		air failure: hold				
48		positioner Siemens Sipart PS2 6DR5120-0NM01-0AA4-Z F01; 4...20mA; HART				
49		air set YT 200BN210 incl. gauge, air tubing: SST				
50		air supply pressure: min.6bar(g)				
51	Remarks:					
52	Inlet 1 always open, Outlet 2 & Outlet 3 controlled					
53	with position indicator at valve stem					
54						
55						
56	Revision:	0	1	2	3	4
57	Date:	12.03.2020	16.04.2020	22.04.2020		
58	Prepared:	K. A.Ramadan	P. Schüler	K. A.Ramadan		
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