

3-Way Valve



ARTES Valve & Service GmbH
Parkallee 7 - 16727 Velten
GERMANY

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	ARCA Regler GmbH	ARTES-Ref.:	5503561			
2	Plant:	SINOPEC ENGINEERING INCORPORATION	Pos.:	1			
3	Service:		Qty.:	1			
4	TAG No.:		S/N:	3148577.1			
5	Pipe - Connection Data		Connection 1	Connection 2	Connection 3		
6	Dimensions	Ø D x s [mm x mm]	Ø355,6 x 35,71	Ø355,6 x 35,71	Ø355,6 x 35,71		
7	Material		A312 TP347	A312 TP347	A312 TP347		
8	Weld ends	Ø D x s [mm x mm]	Ø355,6 x 35,71	Ø355,6 x 35,71	Ø355,6 x 35,71		
9	Flange ends		--	--	--		
10	Valve - Connection Data		Connection 1	Connection 2	Connection 3		
11	Nominal Pipe Size	NPS	14"	14"	14"		
12	Nominal Pressure (Rating Class)	class	2500	2500	2500		
13	Material		SA182 F347	SA182 F347	SA182 F347		
14	Valve - Design Data						
15	Design Pressure	[MPa(g)]	21,2				
16	Design Temperature	[°C]	450				
17	Hydraulic Test Pressure		35,2 MPa(g)				
18	Operational conditions		Loading Case	Loading Case	Loading Case	Loading Case	Loading Case
19	Medium:		1	2	3	4	5
20	Flow	[t/h]	372				
21	Temperature	[°C]	375-400				
22	p inlet	[MPa(g)]	18,95				
23	p outlet	[MPa(g)]					
24	density	[kg/m³]	287-303				
25	Kvs value	[m³/h]	2.945				
26							
27	Valve type 3-Way Valve - Divider - Type W-VA						
28	Material:						
29							
30	Body:	SA182 F347					
31	Stem:	SA182 F347					
32	Plug:	SA182 F347 / 1.4550					
33							
34	Gaskets:	Graphite					
35							
36							
37							
38	Design & Inspection:		Inspection certificate acc. EN 10204 - 3.1				
39			Requirements acc. to: ASME Boiler & Pressure Vessel Code - Section VIII Division 1				
40			Leakage: ca. 1,5% of Kvs				
41	Installation requirements:						
42							
43	Actuator:	pneumatic					3148374
44	Type:	bar GTE350 single acting, air to open (connection 3), spring to close (connection 3),					
45		air/signal fail position: locked, positioner DVC6200HC, air set T51FR; 1/4" NPT					
46		manual override with handwheel Ø800 mm					
47		air supply pressure min. 0,4MPa(g)					
48							
49	Remarks:						
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51							
52							
53							
54	Revision:	0	1	2	3	4	5
55	Date:	17th Dec. 2018	30th Jan. 2019	21st Mar. 2019			
56	Prepared:	K. Abu Ramadan	H. Jäkel	P. Schüler			
57	Checked:	H. Jäkel	F. Exner	F. Exner			