

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.	5503278					
2	Plant:	Agropolychim Varna	Pos.	2					
3	Service:	Boiler Superheater Bypass	Qty.:	1					
4	TAG No.	Y 2105	S/N:	3138886.1					
5	Pipeline		Connection 1	Connection 2	Connection 3				
6	Dimensions	Ø D x s mm	323,9 x 11,0	323,9 x 11,0	323,9 x 11,0				
7	Material		16Mo3	16Mo3	16Mo3				
8	Weld ends	Ø D x s mm	323,9 x 11,0	323,9 x 11,0	323,9 x 11,0				
9	Flange ends		--	--	--				
10	Valve Design		Connection 1	Connection 2	Connection 3				
11	Nom. pipe size	DN	300	300	300				
12	Nom. pressure	PN	N/A	N/A	N/A				
13	Design Pressure	bar(g)	46						
14	Design Temp.	°C	485						
15	Material		1.5415						
16	Hydraulic Test Pressure		110,0 bar						
17	Operational conditions		Load Case	Load Case	Load Case	Load Case			
18	Medium:		1	2	3	4			
19	Flow	t/h	80						
20	Temperature	°C	460						
21	p inlet	bar(g)	40,00						
22	p outlet	bar(g)	39,84						
23	Kvs value	m³/h	2.385,00						
24	Leakage flow	t/h	2,4...4,0						
25									
26	Valve type	Type W							
27	Material:					Valve Parameters			
28						Ø seat		225	mm
29	Body:	1.5415				Kvs Value:		2.385	m³/h
30	Stem:	1.4122				delta p actuator		2	bar
31	Plug:	1.5415				Control characteristic:		linear	
32						Dimensions		900,0 mm	
33	Gaskets:	Graphite						450,0 mm	
34									
35									
36									
37	Design & Tests acc. to:	Pressure Equipment Directive 2014/68/EU							
38		Requirements acc. to:		EN12952					
39		Leakage:		ca. 3-5% of Kvs					
40	Installation requirements:								
41									
42	Actuator type:	El-o-matic							
43	Model:	ED 950 double acting rack&pinion type with declutchable manual override gearbox MO160, handwheel							
44		air fail position: locked in last position, pneumatic lock-up relay (SMC IL211)							
45		el. connection: M20x1,5, gauge; E/P positioner Emerson Fisher DVC 6200 4...20mA HART,							
46		2-wire-design; air set with gauge, minimal air supply pressure: 4bar(g);							
47		pneum. connection: G1/4", max. environmental temperature for manual override gearbox: -20...+80°C							
48	Remarks:								
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53	Revision:	0	1	2	3	4			
54	Date:	12.10.2017	06.11.2017	20.11.2017	04.01.2018	27.02.2018			
55	Prepared:	S. Haftenberger	S. Haftenberger	P. Schüler	S. Haftenberger	S. Haftenberger			
56	Checked:	H. Jäkel	H. Jäkel	S. Haftenberger	H. Jäkel	H. Jäkel			