

# Three-Way Valve



ARTES Valve & Service GmbH  
Parkallee 7 - 16727 Velten  
Germany

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	Werner Thermoservice SRL	ARTES-Ref.:	5504963		
2	Plant:	TARGU MURES, ROMANIA	Pos.:	1		
3	Service:		Qty.:	1		
4	TAG No.:		S/N:	3187978.1		
5	<b>Pipeline</b>		<b>Connection 1</b>	<b>Connection 2</b>	<b>Connection 3</b>	
6	Dimensions	Ø D [mm] x s [mm]	219,1 x 8,0	219,1 x 8,0	219,1 x 8,0	
7	Material		1.7335 (13CrMo4-5)	1.7335 (13CrMo4-5)	1.7335 (13CrMo4-5)	
8	Weld ends	Ø D [mm] x s [mm]	--	--	--	
9	Flange ends		EN 1092-1/F	EN 1092-1/F	EN 1092-1/F	
10	<b>Valve Design</b>		<b>Connection 1</b>	<b>Connection 2</b>	<b>Connection 3</b>	
11	Nom. pipe size	DN / NPS	200	200	200	
12	Nom. pressure	PN / class	100	100	100	
13	Design Pressure	[bar(g)]	49	49	49	
14	Design Temp.	[°C]	520	520	520	
15	Material		1.7380 (10CrMo9-10)	1.7380 (10CrMo9-10)	1.7380 (10CrMo9-10)	
16	<b>Hydraulic Test Pressure</b>					
17	<b>Operational conditions</b>	Load Case	Load Case	Load Case	Load Case	Load Case
18	Medium:	steam	1	2	3	4
19	Flow	[m³/h]	2.230			
20	Temperature	[°C]	510			
21	p inlet	[bar(g)]	45,60			
22	p outlet	[bar(g)]	45,00			
23	Kvs value	[m³/h]	334,85			
24	Velocity	[m/s]	19,37			
25						
26	<b>Valve type</b>	<b>DWA-W</b>				
27	<b>Material:</b>		<b>Valve Parameters</b>			
28						
29	Body:	1.7380 (10CrMo9-10)	Ø seat 100 mm			
30	Stem:	1.4923 (X22CrMoV12-1)	Kvs Value: max. 416 m³/h			
31	Plug:	1.7380 (10CrMo9-10)	delta p actuator 3 bar			
32						
33	Gaskets:	Graphite	Control characteristic:		Dimensions: 642,0 mm	
34			linear		321,0 mm	
35			t.b.d.			
36						
37	<b>Design &amp; Tests acc. to:</b>	Pressure Equipment Directive 2014/68/EU				
38		Requirements acc. to: EN 12952				
39		Leakage: 1,5% of Kvs-value				
40		Factory Acceptance Test Certificate acc. to EN 10204-3.1				
41	<b>Installation requirements:</b>					
42						
43	<b>Actuator type:</b>	manual				
44	Model:	AUMA GS80.3				
45		manual gearbox with handwheel ø315 for manual override				
46						
47						
48	Actuator adaption:	acc. ISO 5211				
49	<b>Remarks:</b>					
50		Port 2 always open, Port 1 & Port 3 controled.				
51						
52						
53						
54	Revision:	0	1	2	3	4
55	Date:	04.06.2024	05.06.2024	12.06.2024		
56	Prepared:	C. Pocher	R. Feldmann	R. Feldmann		
57	Checked:	T. Khallouf	C. Pocher	T. Khallouf		