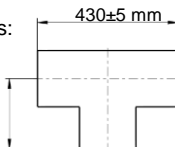


Three-Way Valve



ARTES Valve & Service GmbH
Parkallee 7 - 16727 Velten
Germany

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	Vermilion Energy Germany GmbH & Co. KG	ARTES-Ref.:	5505092		
2	Plant:	GTA Weissenmoor Süd Z1	Pos.:	1		
3	Service:	Gaskühler W2110	Qty.:	1		
4	TAG No.:	TCV211001	S/N:	3186462.2		
5	Pipeline		Connection 1	Connection 2	Connection 3	
6	Dimensions	Ø D [mm] x s [mm]	114,3 x 5	114,3 x 5	114,3 x 5	
7	Material					
8	Weld ends	Ø D [mm] x s [mm]				
9	Flange ends		ASME B16.5/RTJ			
10	Valve Design		Connection 1	Connection 2	Connection 3	
11	Nom. pipe size	DN / NPS	4"	4"	4"	
12	Nom. pressure	PN / class	600	600	600	
13	Design Pressure	[bar(g)]	92	92	92	
14	Design Temp.	[°C]	-10 ... +120	-10 ... +120	-10 ... +120	
15	Material		1.0460	1.0460	1.0460	
16	Hydraulic Test Pressure					
17	Operational conditions	Load Case	Load Case	Load Case	Load Case	Load Case
18	Medium:	Erdgas	1	2	3	4
19	Flow	[Nm³/h]	20.000			
20	Temperature	[°C]	60			
21	p inlet	[bar(g)]	70,00			
22	p outlet	[bar(g)]	69,70			
23	Kvs value	[m³/h]	145,00			
24	Leakage flow	[Nm³/h]	457,00			
25						
26	Valve type	DWA-G Teiler				
27	Material:		Valve Parameters			
28						
29	Body:	1.0460	Ø seat	65	mm	
30	Stem:	1.4122	Kvs Value:	199	m³/h	
31	Plug:	1.4122	delta p actuator	3	bar	
32			Control characteristic:	Dimensions: 		
33	Gaskets:	O-Ring - EPDM	linear			
34						
35						
36						
37	Design & Tests acc. to:	Pressure Equipment Directive 2014/68/EU				
38		Requirements acc. to: EN 13445				
39		Leakage: 1,5% of Kvs-value				
40		Factory Acceptance Test Certificate acc. to EN 10204-3.1				
41	Installation requirements:					
42						
43	Actuator type:	pneumatisch				3186499
44	Model:	ProtACT Typ PR216S, einfachwirkend, Federkraft schließt Ausgang 3				
45		Stellungsregler Siemens PS2-6DR5113-0EG01-0AA0 4-20mA HART-Ausführung				
46		inkl. analoger Rückmeldung, und Manometerleiste (2 Manometer), Steuerluftdruck 6 bar(g)				
47		Filter und Reduziereinheit Norgren Herion B84G-4GK-AD1-RMG 1/2" inkl. Manometer				
48	Actuator adaption:	EN ISO 5211 - F14				
49	Remarks:					
50						
51						
52						
53						
54	Revision:	0	1	2	3	4
55	Date:	17.12.2024				
56	Prepared:	B. Seiferth				
57	Checked:	T. Langanke				