

Three-Way Valve



ARTES Valve & Service GmbH
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Germany

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	Vermilion Energy Germany GmbH & Co. KG	ARTES-Ref.:	5504906					
2	Plant:	GTA Osterheide	Pos.:	1					
3	Service:	Gaskühler W2110	Qty.:	1					
4	TAG No.:	TCV211001	S/N:	3186462.1					
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	1)			
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			
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						Ø seat		65	mm
29	Body:	1.0460				Kvs Value:		199	m³/h
30	Stem:	1.4122				delta p actuator		3	bar
31	Plug:	1.4122				Control characteristic:		linear	
32	Gaskets:	O-Ring - EPDM				Dimensions:			
33									
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							
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 (2Manometer)							
47		Filter und Reduziereinheit Norgren Herion B84G-4GK-AD1-RMG 1/2" inkl. Manometer							
48	Actuator adaption:	EN ISO 5211 - F14							
49	Remarks:								
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54	Revision:	0	1	2	3	4			
55	Date:	29.02.2024							
56	Prepared:	M. Bechly							
57	Checked:	D. Hermann							