

Three-Way Valve



ARTES Valve & Service GmbH
Parkallee 7 - 16727 Velten
GERMANY

A MEMBER OF THE ARCA FLOW GROUP

1	Customer:	Standardkessel Baumgarte GmbH	ARTES-Ref.:	5504765		
2	Plant:	Biomasseheizkraftwerk Hannover Stöcken	Pos.:	2020		
3	Service:	3 Wegeventil Koppelkreis	Qty.:	1		
4	TAG No.:	1 PGE20 AA001	S/N:	3182978.1		
5	Pipeline		Connection 1	Connection 2	Connection 3	
6	Dimensions	Ø D [mm] x s [mm]	219,1 x 6,3	219,1 x 6,3	219,1 x 6,3	
7	Material		P235GH-TC1	P235GH-TC1	P235GH-TC1	
8	Weld ends	Ø D [mm] x s [mm]	219,1 x 6,3	219,1 x 6,3	219,1 x 6,3	
9	Flanschenden		--	--	--	
10	Valve Design		Connection 1	Connection 2	Connection 3	
11	Nom. pipe size	DN / NPS	200	200	200	
12	Nom. pressure	PN / class	--	--	--	
13	Design Pressure	bar(g)	22	22	22	
14	Design Temp.	°C	200	200	200	
15	Material		1.0460	1.0460	1.0460	
16						
17	Operational conditions		1	2	3	4
18	Medium:	Water	max	max 1 > 3		
19	Flow	t/h	240,00	155,00		
20	Temperature	°C	175	105		
21	p inlet	bar(a)	22,00	21,50		
22	p outlet	bar(a)	20,00	20,00		
23	Kvs value	m³/h	316,04	129,46		
24	Strömungsgeschw. Austritt	m/s	2,23	--		
25						
26	Valve type	Verteiler				
27	Material:		Valve Parameters			
28						
29	Body:	1.0460	Ø seat 100 mm			
30	Stem:	1.4122	Kvs Value: max. 450 m³/h			
31	Plug:	1.0460	delta p für Antr. 2 bar			
32			Control characteristic: linear			
33	Gaskets:	Grafit	Dimensions: 590,0 mm			
34			295,0 mm			
35						
36						
37	Design & Tests acc. to:	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	Installation requirements:					
42						
43	Actuator type:	elektrisch				3183172
44	Model:	auma SQR10.2 & AC01.2				
45		U 400V / 50 Hz/ 3ph; IP68; Betriebsart S4-25%ED				
46		Spezifikation "Hannover Stöcken"				
47		TPCA-1B1-1H2-A000 TPA00R100-0I1-000				
48		Stellzeit: ≤ 60 sec / 90°; Temperaturlausführung -10 ... +70°C				
49	Remarks:					
50						
51						
52						
53		Prüfdruck in der Anlage: $p_A \hat{=} 50 \text{ bar}(\ddot{u})$				
54	Revision:	0	1	2	3	4
55	Date:	11.08.2023	25.10.2023			
56	Prepared:	H. Roßmann	P. Schüler			
57	Checked:	H. Jäkel	R. Feldmann			