3-Way Valve

ARTES Valve & Service GmbH
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Germany

A MEMBER OF THE ARCA FLOW GROUP

Customer:	DAEWOO E&C Co., Ltd / End-User: HUCHEMS		ARTES-Ref.:	5504629	
Plant:	No 6 NA		Pos.:	1	
Location:	Yeosu, Korea		Qty.:	1	
TAG No.:	326-TV-6-108		S/N:	3179513.1	

Pipeline - Connection Data		**Connection 1**	**Connection 2**	**Connection 3**	
Dimensions	Ø D [mm] x s [mm]	219,1 x 18,26	219,1 x 18,26	219,1 x 18,26	
Material		--	--	--	
Welding Connection	Ø D [mm] x s [mm]	219,1 x 18,26	219,1 x 18,26	219,1 x 18,26	
Flange Connection		--	--	--	

Valve - Design Data		**Connection 1**	**Connection 2**	**Connection 3**	
Nominal Size	DN / NPS	8"	8"	8"	
Nominal Pressure	PN / class	--	--	--	
Design Pressure	*[bar(g)]*	57	57	57	
Design Temperature	*[°C]*	545	545	545	
Material		SA182 F22 Cl.3	SA182 F22 Cl.3	SA182 F22 Cl.3	

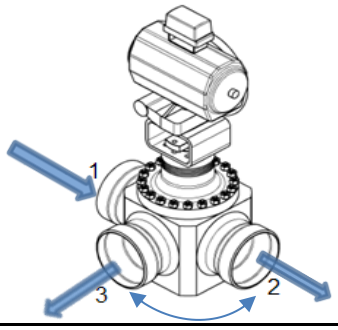
Hydraulic Test Pressure **224,0 bar**

Operational conditions		Load Case 1	Load Case 2	Load Case 3	Load Case 4	Load Case 5
Medium:	steam					
Flow	*[t/h]*	52,50	59,20			
Temperature	*[°C]*	510	510			
Pressure, Inlet	*[bar(a)]*	50,00	50,00			
Pressure, Outlet	*[bar(a)]*	49,90	49,90			
Kvs value	*[m³/h]*	1386,0	1563,0			

Type Of Valve **DWA - Type W**

Material:

Body:	SA182 F22 Cl.3
Stem:	1.4923
Plug:	SA182 F22 Cl.3
Gaskets:	Graphite

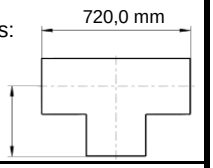


Valve Parameters

Ø seat	175	mm
Kvs Value:	max. 1600,0	m³/h
delta p actuator	3	bar

Control characteristic: linear

Dimensions:



Design / Inspection ASME BPVC Sec.VIII, Div.1
Requirements acc. to: ASME BPVC Sec.VIII, Div.1
Leakage: 1.5% of Kvs-value
Final Inspection Confirmation acc. to EN 10204-3.1

Installation requirements:

Actuator pneumatic 3179522

Type: ProtACT PR587S, single-acting "rack&pinion, air to open, spring to close, signal/air failure: close
Postioner: Neles ND9203FE1-MS23, Smart/Digital, Foundation Fieldbus, Bus voltage 9-32 VDC, IECEx Ex d
Filter/Regulator: SH06-FR-SR-MD-10-X1-X5, NPT1/4", Stainless Steel 316L, pore width 5µm; piping SST
air supply pressure: min. 4,0 bar(g)

Actuatoradaption: acc. ISO 5211

Remarks:

Connection 1, Inlet - always open, Connection 2 (Outlet I) & Connection 3 (Outlet II) - controlled

Safety postion - signal/air failure - Connection 3 closed

Revision:	0	1	2	3	4	5
Date:	01.02.2023	16.03.2023				
Prepared:	C. Pocher	P. Schüler				
Checked:	P. Schüler	R. Feldmann				