

3-Way Valve



1	Customer:	Ethos Energy	ARTES-N°	5502623		
2	Project:	Natural gas compressor	Pos.	1		
3	Application:		Units:	1		
4	KKS N°		Serial-N°:	3116668.1		
5	Pipe		connection 1	connection 2	connection 3	
6	Pipe dimension	Ø D x s mm	--	--	--	
7	Pipe material					
8	Welding ends	Ø D x s mm	--	--	--	
9	Flange ends		3"/300lbs/RF	3"/300lbs/RF	3"/300lbs/RF	
10	Valve		connection 1	connection 2	connection 3	
11	Nominal pipe size	NPS	3"	3"	3"	
12	Nominal pressure	class	300	300	300	
13	Valve Design					
14	Design pressure	bar(g)				20
15	Temperature	°C				20
	Ambient temp.	°C				-40...+70
16	Material					1.0566
17	Rating Class					300
18	Test pressure - Body Strength					
19	Operating data		Loading case	Loading case	Loading case	Loading case
20	Medium:	nat. gas	1	2	3	4
21	Flow	Nm³/h	10,000			
22	Temperature	°C	20			
23	Inlet pressure	bar(a)	20,00			
24	Outlet pressure	bar(a)	19,87			
25						
26	C _V -value	m³/h	195,00			
27						
28	Valve type	3-way- valve, type G				
29	Materials					
30						
31	Body:	1.0566				
32	Stem:	1.4571 hardened				
33	Plug:	1.0566				
34	Gaskets	FKM				
35						
36						
37						
38						
29			Valve parameters Ø seat: 65 mm Ø stem: -- mm C _{VS} -value: 195 m³/h max. Δp actuator: 2 bar Characteristic: linear Install. Length: 294,0 mm 147,0 mm			
39	Inspection:	Pressure Equipment Directive PED97/23/EC				
40		requests acc. to: AD2000				
41		Leakage: min.1,5% of C _{VS}				
42	Installation advices					
43						
44	Actuator	hydraulic				
45	Type:	KTC, double acting, for installation in 90bar external hydraulic oil system				
46		turn angle adjustable via mechanical limit stops				
47		proportional valve EEx d, angle measurement system EEx ia, ambient temperature 5...70°C,				
48		control box for positioner, signal amplifier, el. terminal block, 4...20mA input, 4...20mA feedback,				
49		internal heating and thermostat Material: 3116505				
50	Remarks					
51	input signal 4mA: flow 1-3 opened, input signal 20mA: flow 1-2 opened					
52						
53						
54	Revision	0	1	2	3	4
55	Date:	22.01.2015	30.01.2015	04.05.2015		
56	Prepared:	S.Haftenberger	S.Haftenberger	J. Gerhardt		
57	Checked:	H.Jäkel	H.Jäkel	P. Schüler		