

Company Address	C.S.U.T SPETECH. Sp. z o.o. ul. Szyprow 17, 43-382 Bielsko-Biala, Poland
Gasket Type	DryFlex® (3mm of AISI 316L + 2x0,5mm of Sigraflex C)
Thickness e_{G0} [mm]	3,8 mm

Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for $p = 40$ bar									
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [MPa]							
		$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
10^{-0}	< 10		<10	<10	<10	<10			
10^{-1}	<10		<10	<10	<10	<10			
10^{-2}	20		18	17	16	<10			
10^{-3}	34		32		27	25			
10^{-4}	63				42	38			
10^{-5}	109								
10^{-6}									
10^{-7}									
10^{-8}									

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm			
Gasket stress [MPa]	ambient temperature	temperature 1 [200 °C]	temperature 2 [400 °C]
Stress level 1 [30 MPa]	0,96	0,94	0,88
Stress level 2 [100 MPa]	0,99	0,97	0,95
Q_{Smax} [500 MPa]	1,00	0,98	0,98

Maximal applicable gasket stress Q_{Smax}		
Q_{Smax} [MPa] – ambient temperature	Q_{Smax} [MPa] – temperature 1 [200 °C]	Q_{Smax} [MPa] – temperature 2 [400 °C]
> 500	> 500	> 500

Sekant unloading modulus of the gasket E_G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [200 °C]	temperature 2 [400 °C]
20	841	1157	974
30	1305	1409	1608
40	1705	2094	1778
50	2032	2560	2315
60	2290	2676	2663
80	2775	3369	3648
100	3148	4342	4327
120	4267	5890	5313
140	4829	5858	6653
160	5871	6687	6751
180	6537	7161	7001
200	6995	7882	7754

Note: the content of darkened cells was not determined respectively is unnecessary

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