

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 + 2x0,35 mm of PTFE)
Thickness e_{GO} [mm]	3.5 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^{-1}	< 10			< 10	< 10	< 10			
10^{-2}	< 10			< 10	< 10	< 10			
10^{-3}	< 10			< 10	< 10	< 10			
10^{-4}	< 10			< 10	< 10	< 10			
10^{-5}	53			50	34	22			
10^{-6}									
10^{-7}									
10^{-8}									

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm			
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [250 °C]
Stress level 1 [30 MPa]	0.99	0.88	0.73
Stress level 2 [100 MPa]	0.99	0.94	0.82
Q_{Smax} [500 MPa]	1.00	0.99	0.98

Maximal applicable gasket stress Q_{Smax}		
Q_{Smax} [MPa] – ambient temperature	Q_{Smax} [MPa] – temperature 1 [100 °C]	Q_{Smax} [MPa] – temperature 2 [250 °C]
> 500	> 500	> 500

Sekant unloading modulus of the gasket E_G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [250 °C]
20	452	709	831
30	701	1079	1214
40	907	1200	1448
50	695	1454	1768
60	1290	1558	1747
80	1541	1855	2211
100	1778	2101	2376
120	2035	2309	2812
140	2393	2602	3177
160	2666	2880	3324
180	2921	3121	3884
200	3167	3331	4410

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

Creation date of this sheet: 04.03.2010