

Company Address	C.S.U.T. SPETECH Sp. z o.o., ul. Szyprow 17, 43-382 Bielsko-Biala, Poland
Gasket Type	SPETOGRAF® GUS® 40 PRO
Thickness e_{30} [mm]	2

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	< 10	< 10	< 10
10^{-1}	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
10^{-2}	16	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
10^{-3}	33		17	< 10	< 10	< 10	< 10	< 10	< 10
10^{-4}									
10^{-5}									
10^{-6}									
10^{-7}									
10^{-8}									

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm			
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [300 °C]
Stress level 1 [30 MPa]	0,97	0,95	0,91
Stress level 2 [50 MPa]	0,98	0,96	0,96
Q_{Smax} [200 MPa]	1	0,99	0,99

Maximal applicable gasket stress Q_{Smax}		
Q_{Smax} [MPa] – ambient temperature	Q_{Smax} [MPa] – temperature 1 [150 °C]	Q_{Smax} [MPa] – temperature 2 [300 °C]
> 200	> 200	> 200

Sekant unloading modulus of the gaske E_G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [300 °C]
20	364	419	406
30	518	585	560
40	832	776	805
50	957	1099	1055
60	1432	1247	1275
80	1600	1649	1524
100	2029	1700	2043
120	2629	2855	2277
140	3200	3026	2484
160	3117	2934	2967
180	3318	3096	2787
200	3344	3087	2772
220	3639	3004	3146

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

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