

Company Address	C.S.U.T. SPETECH Sp. z o.o., ul. Szyprow 17, 43-382 Bielsko-Biala, Poland
Gasket Type	SPETOGRAF® GUS® 30 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}	34		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	0,91	0,88
Stress level 2 [50 MPa]	0,99	0,96	0,95
Q_{Smax} [200 / 200 / 160 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	160

Sekant unloading modulus of the gaske E_G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [300 °C]
20	392	435	471
30	565	675	657
40	827	996	849
50	1123	1010	1191
60	1230	1308	1380
80	1710	1938	1532
100	2090	2117	2138
120	2461	2135	2412
140	2495	2723	2482
160	2811	2960	2448
180	3194	3006	2841
200	3661	3106	3049
220	3823	3629	2942

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

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