

Company Address	Teadit International Produktions GmbH, Rosenheimerstraße 10, 6330 Kufstein (Austria)
Gasket Type	24 SH
Thickness e_{GO} [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^{-1}	10	10	10	10	10	10			10
10^{-2}	23		10	10	10	10			10
10^{-3}	31		10	10	10	10			10
10^{-4}	38		10	10	10	10			10
10^{-5}	57			28	10	10			10
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 [MPa]	0,95	30	0,59	30	0,37	30
Stress level 2 [MPa]	0,95	140	0,59	60	0,45	60
Q_{Smax} [MPa]	0,99	240	0,66	140	0,54	100

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]
240	140	100

Sekant unloading modulus of the gasket E_G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [250 °C]
20	657	962	477
30	839	1056	626
40	977	1751	646
50	1411	1817	1144
60	1579	2002	902
80	1751	2088	835
100	3115	2139	801
120	3144	2204	
140	3100	1590	
160	2363		
180	2307		
200	2228		
220	2117		
240	1992		

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

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