

Company Address	<i>Teadit International Produktions GmbH, Rosenheimerstraße 10, 6330 Kufstein (Austria)</i>
Gasket Type	<i>Tealon TF1580</i>
Thickness e_{G0} [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}	11	10	10	10	10	10			10
10^{-1}	14	10	10	10	10	10			10
10^{-2}	18	10	10	10	10	10			10
10^{-3}	26		10	10	10	10			10
10^{-4}	40		10	10	10	10			10
10^{-5}	60			54	21	15			13
10^{-6}	109								143
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]	0,90	30 MPA	0,68	30 MPA	0,36	30 MPA
Stress level 2 [MPa]	0,86	140 MPA	0,58	80 MPA	0,45	80 MPA
Q_{Smax} [MPa]	0,92	240 MPA	0,67	140 MPA	0,59	140 MPA

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]
220	140	140

Sekant unloading modulus of the gasket E_G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [250 °C]
20	1909	1811	1331
30	2611	1983	1495
40	2820	3058	2682
50	4471	3062	2940
60	5290	3961	2384
80	8684	3653	2257
100	9933	3227	2127
120	10035	3185	1861
140	8150	3136	1817
160	7515		
180	6950		
200	5444		
220	4616		
240			

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

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