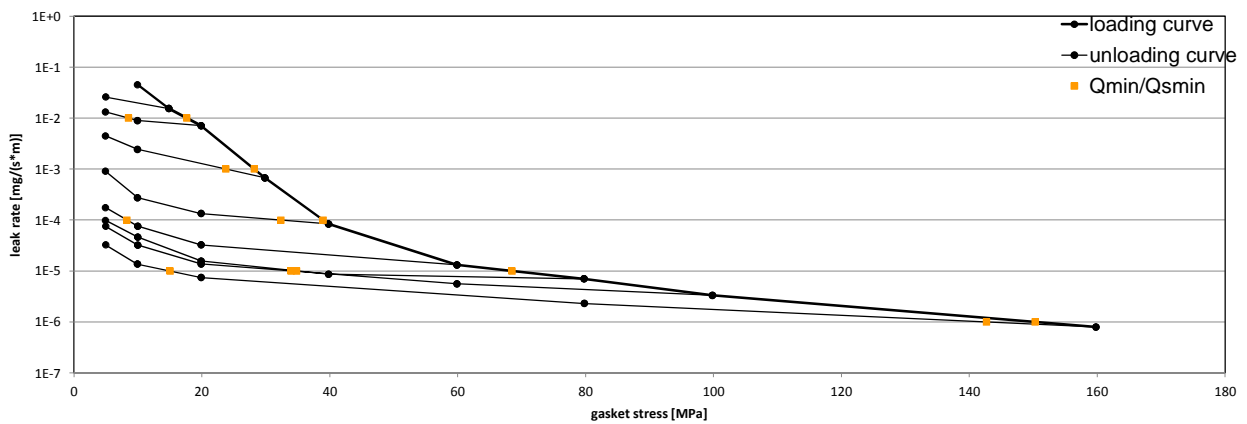


Company Address	Teadit International Produktions GmbH, Rosenheimerstraße 10, 6330 Kufstein, Austria
Gasket Type	TF 1590
Sealing element dimensions [mm]	92 x 49 x 3

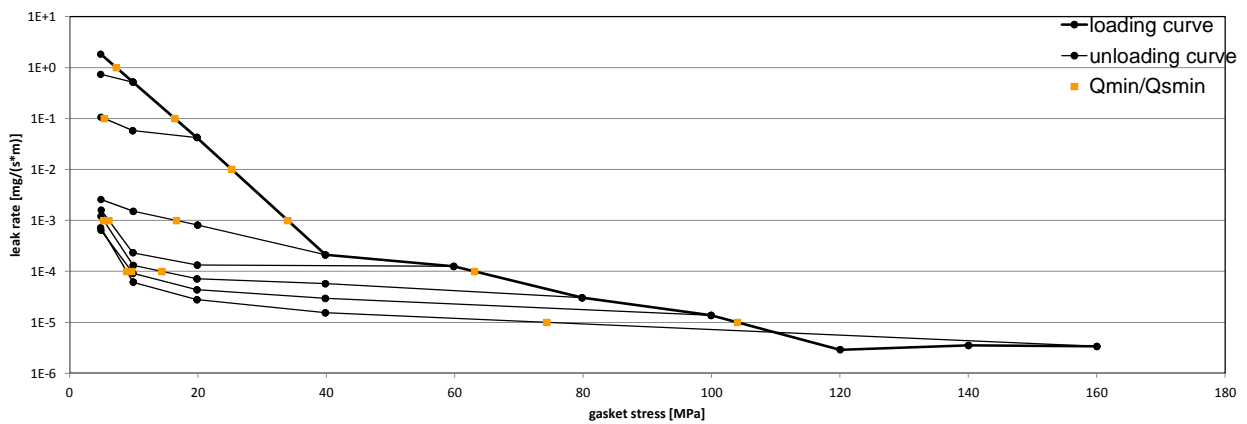
L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 10 bar									
		Q _{Smin/L} [MPa]									
		Q _A = 10 MPa	Q _A = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa	Q _A = 160 MPa		
10 ⁰	10	5	5	5	5	5	5	5	5		
10 ⁻¹	10	5	5	5	5	5	5	5	5		
10 ⁻²	18		9	5	5	5	5	5	5		
10 ⁻³	28			24	5	5	5	5	5		
10 ⁻⁴	39				32	8	5	5	5		
10 ⁻⁵	68						35	34	15		
10 ⁻⁶	150								143		
10 ⁻⁷											
10 ⁻⁸											

Leakage - ambient temperature / inner pressure = 10 bar



L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 40 bar								
		Q _{Smin/L} [MPa]								
		Q _A = 10 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	7	5	5	5	5	5	5			5
10 ⁻¹	16		5	5	5	5	5			5
10 ⁻²	25			5	5	5	5			5
10 ⁻³	34			17	6	5	5			5
10 ⁻⁴	63					14	10			9
10 ⁻⁵	104									74
10 ⁻⁶										
10 ⁻⁷										
10 ⁻⁸										

Leakage - ambient temperature / inner pressure = 40 bar



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

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Center of Sealing Technologies, Bürgerkamp 3, 48565 Steinfurt, Germany

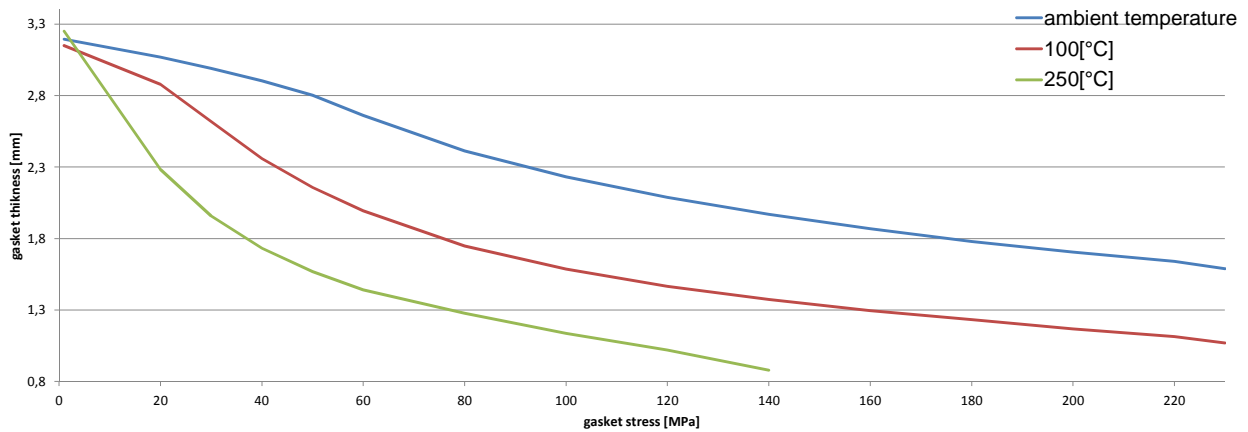
Company Address	Teadit International Produktions GmbH, Rosenheimerstraße 10, 6330 Kufstein, Austria
Gasket Type	TF 1590
Sealing element dimensions [mm]	92 x 49 x 3

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]	0,90	0,63	0,29	
Stress level 2 [100 MPa]			0,35	
Stress level 3 [140 MPa]	0,85	0,64		
PQR at Q_{Smax}	0,93 at 230 MPa	0,72 at 230 MPa	0,47 at 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]	
230	230	140	

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]						
Gasket stress [MPa]	ambient temperature		temperature 1 [100 °C]		temperature 2 [250 °C]	
	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]
0						
1		3,195		3,150		3,250
20	1689	3,069	1305	2,879	638	2,284
30	1762	2,990	1410	2,618	841	1,958
40	2678	2,904	1902	2,359	1178	1,731
50	3629	2,802	2296	2,157	1423	1,569
60	4442	2,661	2657	1,993	1572	1,442
80	5742	2,413	3227	1,749	2194	1,278
100	7213	2,232	4047	1,586	2125	1,136
120	7835	2,087	3929	1,466	3045	1,020
140	8303	1,970	5025	1,374	5587	0,880
160	10514	1,868	6384	1,295		
180	7157	1,780	6620	1,232		
200	6487	1,704	4984	1,167		
220	6940	1,641	5633	1,115		
230	7200	1,588	5218	1,068		

Gasket thickness e_G



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

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