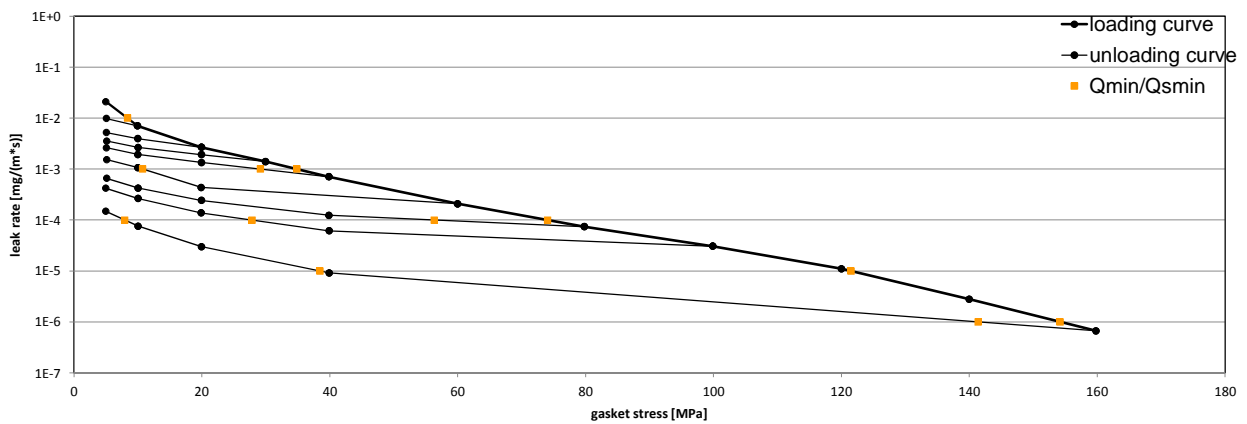


Company Address	IDT Industrie- und Dichtungstechnik GmbH, Adlerstraße 18, 45307 Essen, Germany
Gasket Type	IDT-SIGRAFLEX-Hochdruck Flachdichtung WS 3885-IB 1.4571 0,1 mm
Sealing element dimensions [mm]	92 x 49 x 2

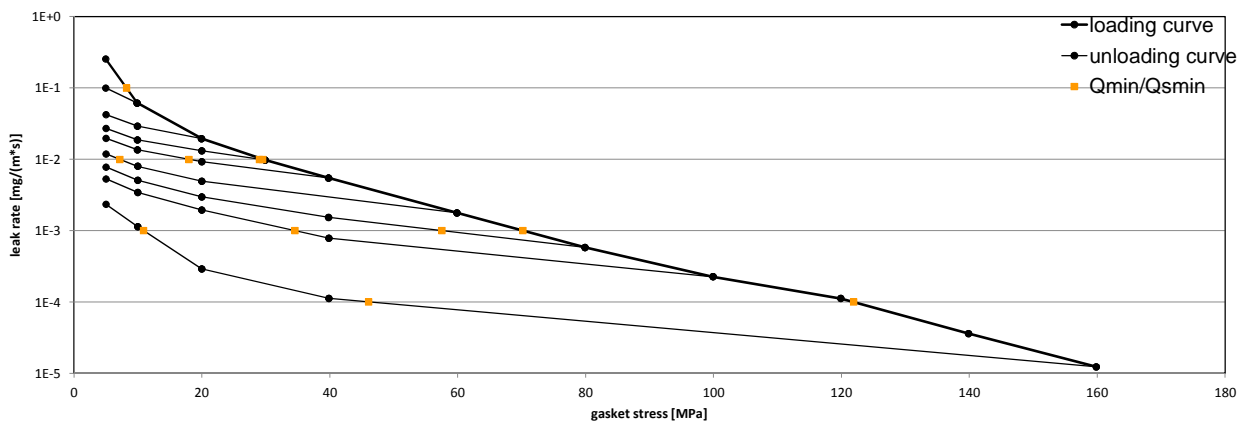
L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 10 bar									
		Q _{Smin/L} [MPa]									
		Q _A = 10 MPa	Q _A = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa	Q _A = 120 MPa	Q _A = 140 MPa	Q _A = 160 MPa
10 ⁰	5	5	5	5	5	5	5	5			5
10 ⁻¹	5	5	5	5	5	5	5	5			5
10 ⁻²	8	5	5	5	5	5	5	5			5
10 ⁻³	35				29	11		5			5
10 ⁻⁴	74						56	28			8
10 ⁻⁵	121										38
10 ⁻⁶	154										141
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 = 30 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	5	5	5	5	5	5	5	5			5
10 ⁻¹	8	5	5	5	5	5	5	5			5
10 ⁻²	30			29	18	7	5	5			5
10 ⁻³	70						58	35			11
10 ⁻⁴	122										46
10 ⁻⁵											
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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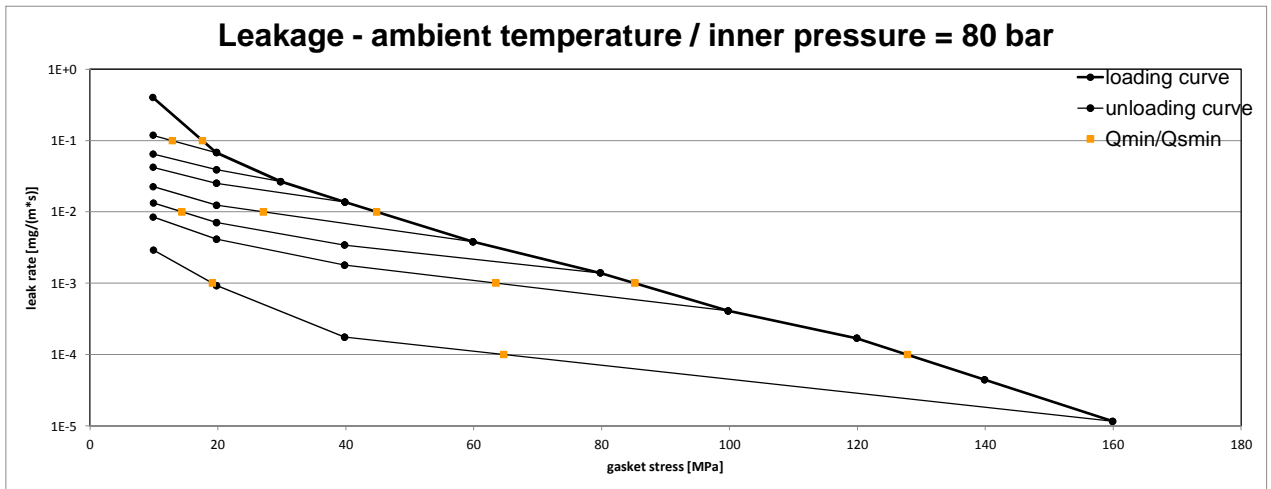
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Center of Sealing Technologies, Bürgerkamp 3, 48565 Steinfurt, Germany

Company Address	IDT Industrie- und Dichtungstechnik GmbH, Adlerstraße 18, 45307 Essen, Germany
Gasket Type	IDT-SIGRAFLEX-Hochdruck Flachdichtung WS 3885-IB 1.4571 0,1 mm
Sealing element dimensions [mm]	92 x 49 x 2

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 = 80 bar									
		Q _{Smin/L} [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 = 120 MPa	Q _A = 140 MPa	Q _A = 160 MPa	
10 ⁰	10	10	10	10	10	10	10			10	
10 ⁻¹	18	13	10	10	10	10	10			10	
10 ⁻²	45				27	14	10			10	
10 ⁻³	85						63			19	
10 ⁻⁴	128									65	
10 ⁻⁵											
10 ⁻⁶											
10 ⁻⁷											
10 ⁻⁸											



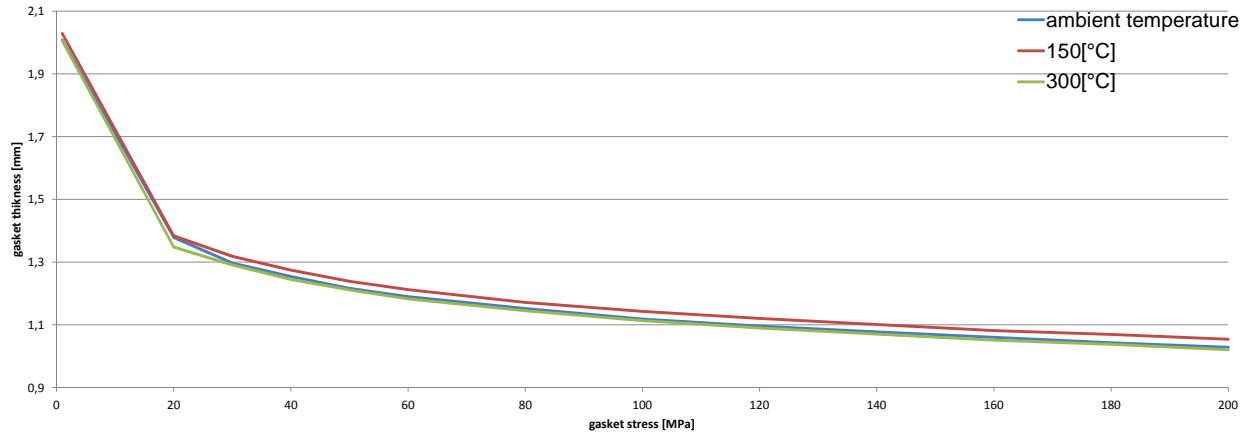
Company Address	IDT Industrie- und Dichtungstechnik GmbH, Adlerstraße 18, 45307 Essen, Germany
Gasket Type	IDT-SIGRAFLEX-Hochdruck Flachdichtung WS 3885-IB 1.4571 0,1 mm
Sealing element dimensions [mm]	92 x 49 x 2

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]	0,98	0,96	0,93	
Stress level 2 [50 MPa]	0,98	0,98	0,96	
PQR at Q_{Smax}	1,00 at 200 MPa	1,00 at 200 MPa	0,99 at 200 MPa	

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]	Q_{Smax} [MPa] – temperature 3	Q_{Smax} [MPa] – temperature 4
200	200	200		

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [150 °C]		temperature 2 [300 °C]					
	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]
0										
1		2,01		2,03		2,00				
20	370	1,38	399	1,38	454	1,35				
30	548	1,30	644	1,32	722	1,29				
40	881	1,25	907	1,27	996	1,25				
50	1005	1,22	1085	1,24	1262	1,21				
60	1359	1,19	1401	1,21	1447	1,18				
80	1996	1,15	1805	1,17	2119	1,15				
100	1970	1,12	2230	1,14	2057	1,11				
120	2455	1,10	2577	1,12	2461	1,09				
140	2927	1,08	2828	1,10	2788	1,07				
160	3030	1,06	2734	1,08	3134	1,05				
180	2958	1,04	3300	1,07	3399	1,04				
200	3161	1,03	3480	1,05	3273	1,02				

Gasket thickness e_G



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

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