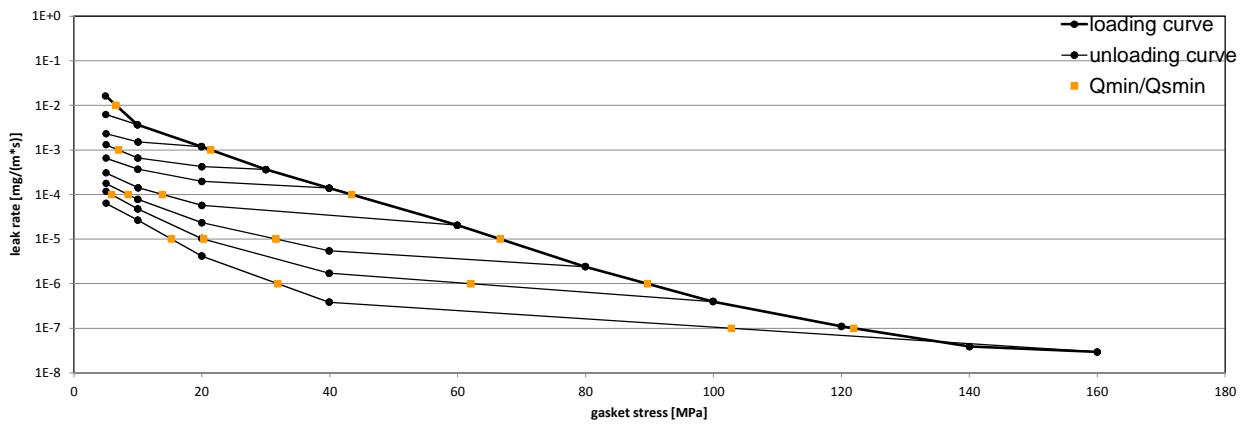


Company Address	IDT Industrie- und Dichtungstechnik GmbH, Adlerstraße 18, 45307 Essen, Germany
Gasket Type	IDT-SIGRAFLEX-Hochdruck Pro, IDT-WS 3888, FD01
Sealing element dimensions [mm]	92 x 49 x 3

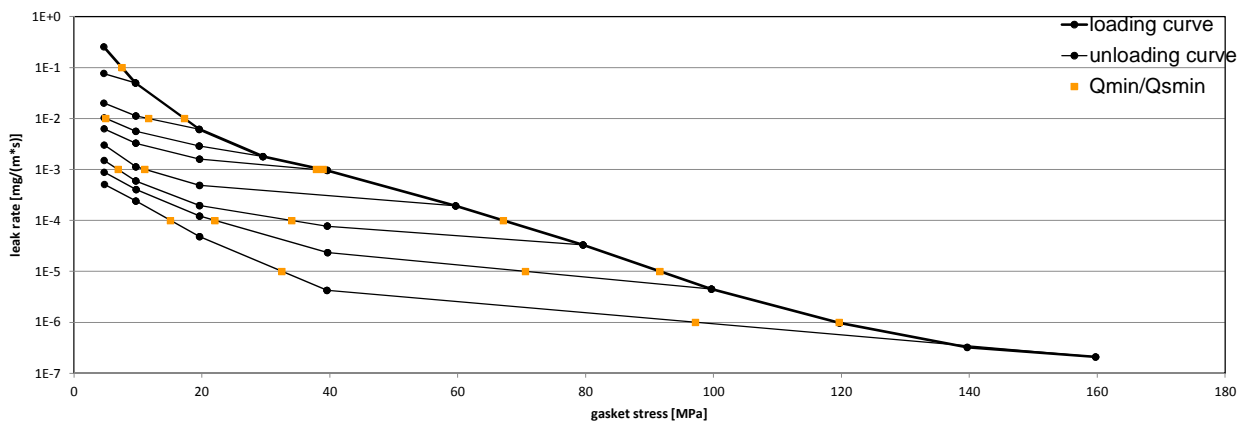
L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 10 bar									
		Q _{Smin/L} [MPa]									
		Q _A = 10 MPa	Q _A = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa	Q _A = 120 MPa	Q _A = 140 MPa	Q _A = 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	7	5	5	5	5	5	5	5			5
10 ⁻³	21			7	5	5	5	5			5
10 ⁻⁴	43					14	8	6			5
10 ⁻⁵	67						32	20			15
10 ⁻⁶	90							62			32
10 ⁻⁷	122										103
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	17		12	5	5	5	5	5			5
10 ⁻³	39				38	11	7	5			5
10 ⁻⁴	67						34	22			15
10 ⁻⁵	92							71			33
10 ⁻⁶	120										97
10 ⁻⁷											
10 ⁻⁸											

Leakage - ambient temperature / inner pressure = 40 bar



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

Rev - No: 1

Creation date of this sheet:

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page 1 of 3



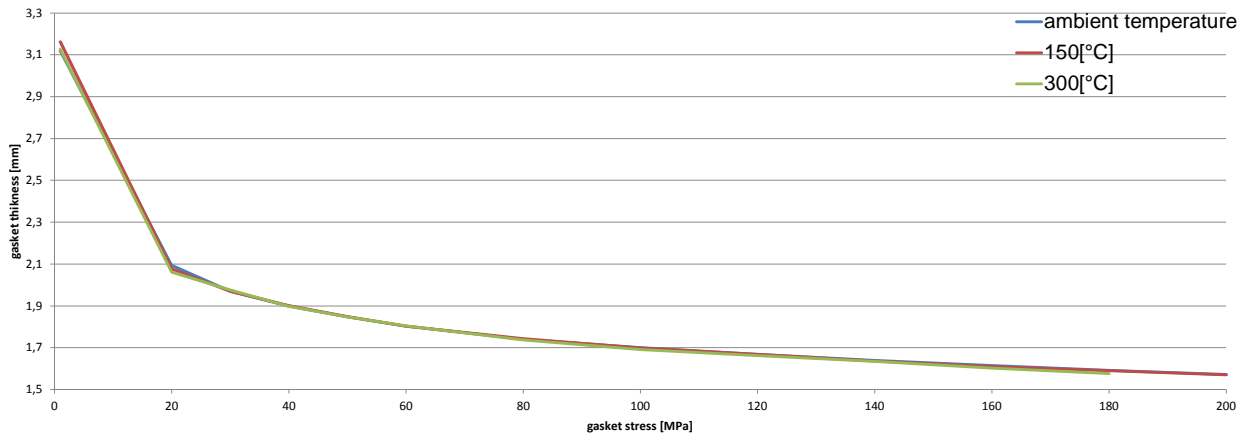
Company Address	IDT Industrie- und Dichtungstechnik GmbH, Adlerstraße 18, 45307 Essen, Germany
Gasket Type	IDT-SIGRAFLEX-Hochdruck Pro, IDT-WS 3888, FD01
Sealing element dimensions [mm]	92 x 49 x 3

Relaxation ratio P_{GR} 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	0,93	0,91	
Stress level 2 [50 MPa]	0,98	0,97	0,94	
PQR at Q_{Smax}	1,00 at 200 MPa	0,99 at 200 MPa	0,98 at 180 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	180		

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		3,12		3,16		3,13				
20	381	2,09	398	2,08	371	2,06				
30	562	1,97	606	1,97	584	1,98				
40	889	1,90	868	1,90	766	1,90				
50	1147	1,85	1120	1,85	1109	1,85				
60	1287	1,80	1246	1,80	1324	1,80				
80	1760	1,74	1983	1,74	1620	1,74				
100	2649	1,70	2231	1,70	1939	1,69				
120	3123	1,67	2827	1,67	2878	1,66				
140	3057	1,64	2871	1,64	3354	1,63				
160	3463	1,61	3327	1,61	3184	1,60				
180	3764	1,59	3958	1,59	3207	1,58				
200	4428	1,57	4767	1,57						
220										
240										
260										
280										
300										
320										
340										
360										
380										
400										
420										
440										
460										
480										
500										
940										

Gasket thickness e_G



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page 2 of 2



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 Pro, IDT-WS 3888, FD01
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 = 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	15		10	10	10	10	10			10	
10 ⁻²	27		21	13	10	10	10			10	
10 ⁻³	49				30	15	12			10	
10 ⁻⁴	71					41	27			20	
10 ⁻⁵	93						75			37	
10 ⁻⁶	123									114	
10 ⁻⁷											
10 ⁻⁸											

