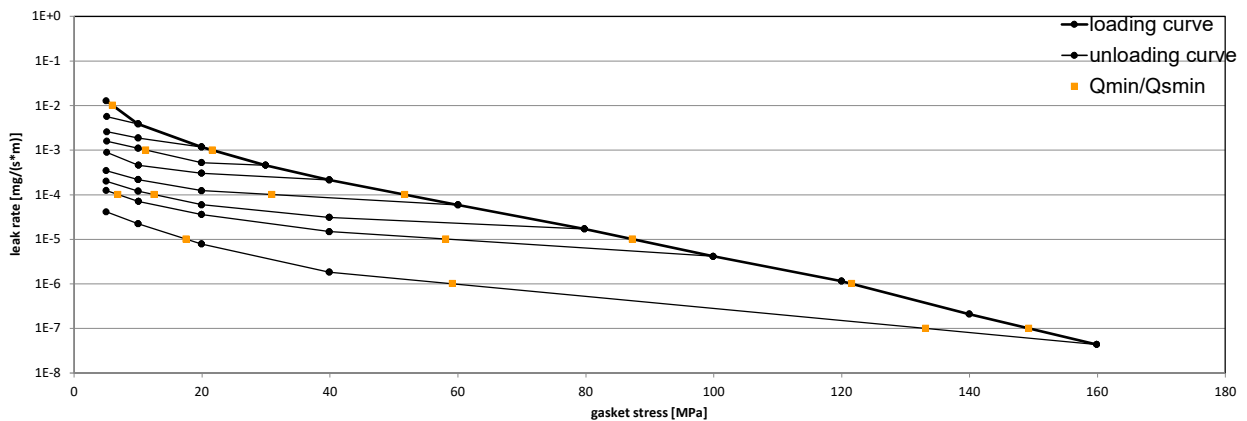


Company Address	IDT Industrie- und Dichtungstechnik GmbH Gewerberg 6, 09456 Annaberg-Buchholz	According to DIN EN 13555 2014-07
Gasket Type	IDT SIGRAFLEX Hochdruck Pro, IDT-WS 3888, IDT-Profil FD01	
Sealing element dimensions [mm]	92 x 49 x 2	

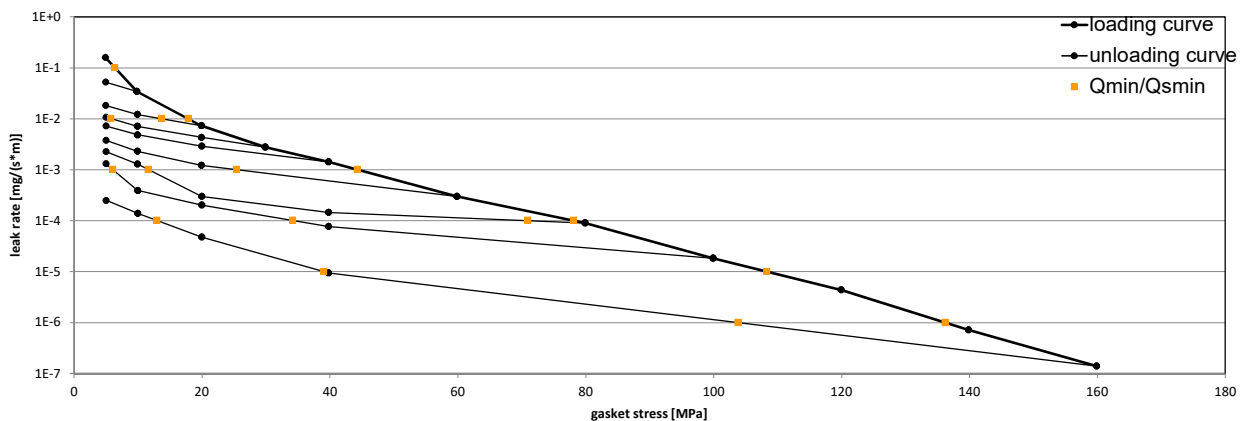
L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 10 bar									
		Q _{Smin/L} [MPa]									
		Q _A = 10 MPa	Q _A = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa	Q _A = 120 MPa	Q _A = 140 MPa	Q _A = 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	6	5	5	5	5	5	5	5			5
10 ⁻³	22			11	5	5	5	5			5
10 ⁻⁴	52					31	13	7			5
10 ⁻⁵	87							58			18
10 ⁻⁶	122										59
10 ⁻⁷	149										133
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	6	5	5	5	5	5	5	5			5
10 ⁻²	18		14	6	5	5	5	5			5
10 ⁻³	44					25	12	6			5
10 ⁻⁴	78						71	34			13
10 ⁻⁵	108										39
10 ⁻⁶	136										104
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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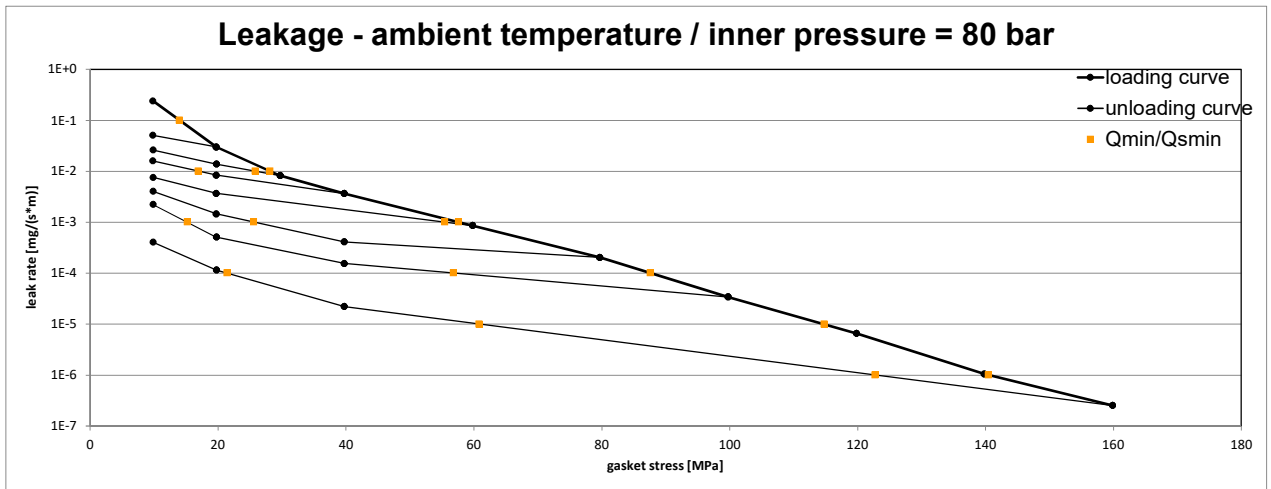
Creation date of this sheet:

2019-06-24



Company Address	IDT Industrie- und Dichtungstechnik GmbH Gewerberg 6, 09456 Annaberg-Buchholz	According to DIN EN 13555 2014-07
Gasket Type	IDT SIGRAFLEX Hochdruck Pro, IDT-WS 3888, IDT-Profil FD01	
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 ⁻⁹	10	10	10	10	10	10	10			10	
10 ⁻¹	14	10	10	10	10	10	10			10	
10 ⁻²	28		26	17	10	10	10			10	
10 ⁻³	58				55	26	15			10	
10 ⁻⁴	88						57			21	
10 ⁻⁵	115									61	
10 ⁻⁶	140									123	
10 ⁻⁷											
10 ⁻⁸											

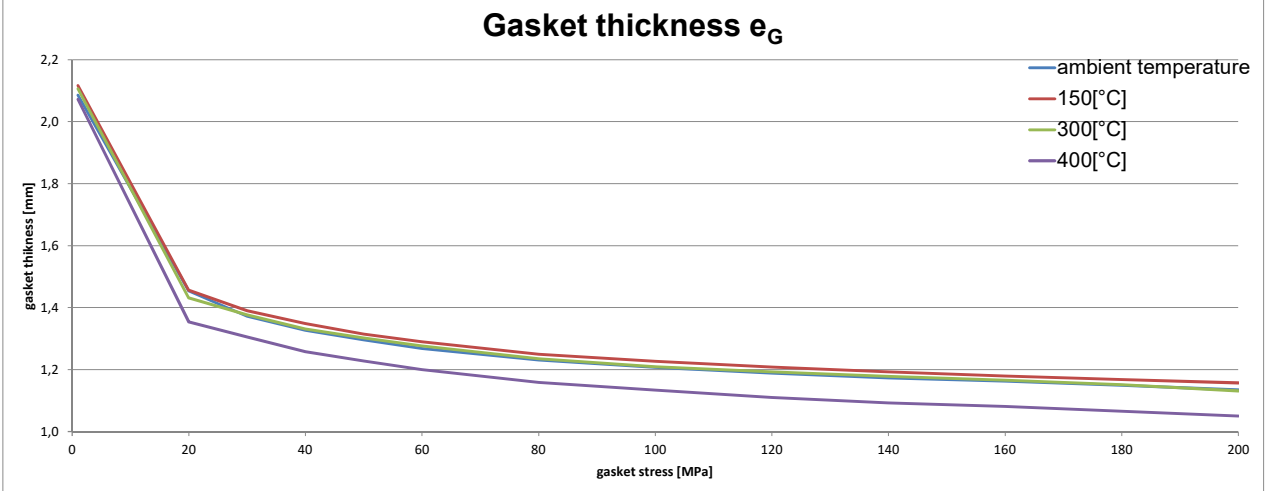


Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 2 Creation date of this sheet: 2019-06-24

Company Address	IDT Industrie- und Dichtungstechnik GmbH Gewerbering 6, 09456 Annaberg-Buchholz	According to DIN EN 13555 2014-07
Gasket Type	IDT SIGRAFLEX Hochdruck Pro, IDT-WS 3888, IDT-Profil FD01	
Sealing element dimensions [mm]	92 x 49 x 2	

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm										
Gasket stress	ambient temperature		temperature 1 [150 °C]		temperature 2 [300 °C]		temperature 3 [400 °C]		P_{QR}	Δe_{Gc} [mm]
	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]		
Stress level 1 [30 MPa]	0.97	0.008	0.95	0.014	0.91	0.023	0.92	0.021		
Stress level 2 [50 MPa]	0.98	0.010	0.96	0.017	0.96	0.017	0.96	0.019		
P_{QR} and Δe_{Gc} at maximal applicable gasket stress Q_{Smax}										
P_{QR} at Q_{Smax}	1.00	0.000	0.99	0.017	0.99	0.017	0.99	0.015		
Q_{Smax}	200 MPa		200 MPa		200 MPa		180 MPa			

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]		temperature 3 [400 °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		2.120		2.139		2.159		2.134		
1		2.086		2.117		2.107		2.073		
20	420	1.454	496	1.456	502	1.431	398	1.354		
30	835	1.372	779	1.390	797	1.377	700	1.305		
40	1060	1.327	1189	1.348	1077	1.331	831	1.257		
50	1503	1.295	1432	1.315	1622	1.302	1364	1.228		
60	1832	1.268	1857	1.289	1902	1.276	1531	1.199		
80	2609	1.231	2331	1.250	2388	1.235	2111	1.158		
100	3898	1.207	4030	1.227	3451	1.209	3095	1.134		
120	7218	1.189	5187	1.208	5072	1.192	3041	1.110		
140	6025	1.173	7330	1.192	7903	1.178	3344	1.092		
160	10285	1.163	7240	1.179	7876	1.165	4692	1.081		
180	9545	1.149	8702	1.168	7242	1.151	4877	1.066		
200	6978	1.134	11070	1.157	5548	1.131				



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