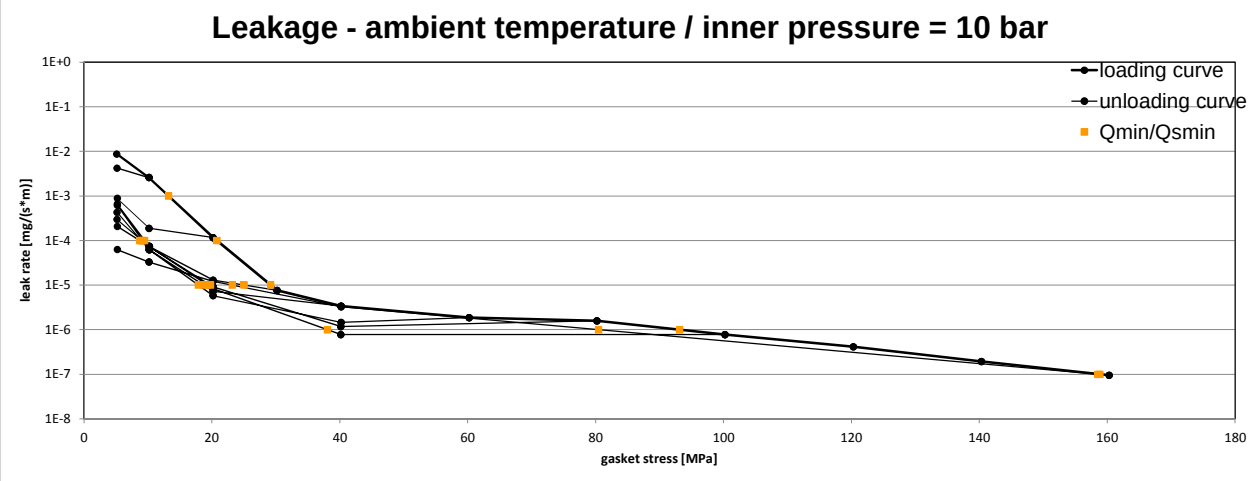
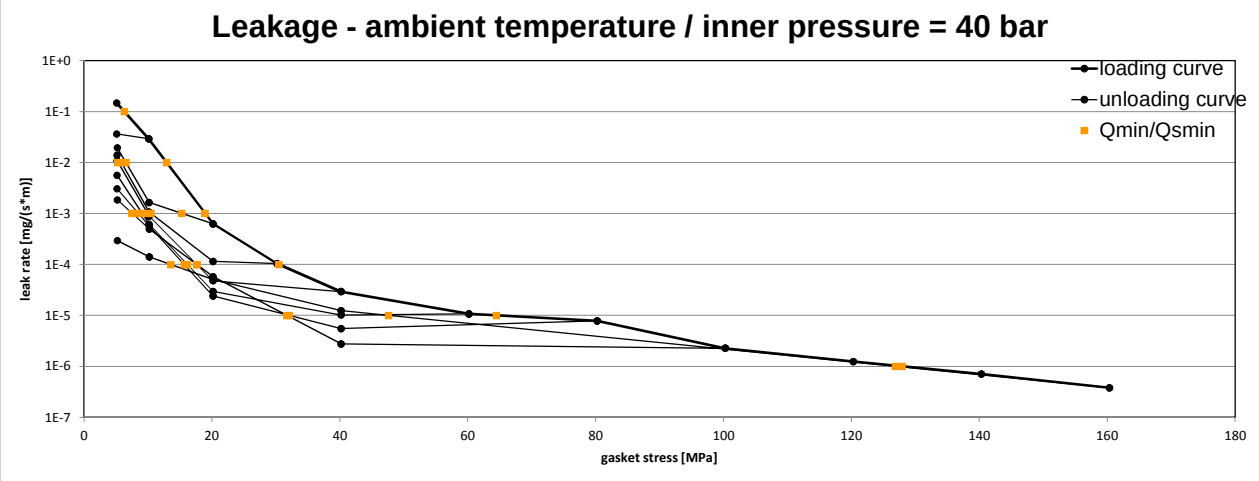
Company Address	*IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany*
Gasket Type	*IDT - Corrugated gasket with graphite layers; WS 1.4571/3803; IDT style WD10; LE*
Sealing element dimensions [mm]	*92 x 49 x 3*

L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $\mathbf{Q_{min/L}}$ (at assembly), $\mathbf{Q_{Smin/L}}$ (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}	5	5	5	5	5	5	5	5			5
10^{-3}	13		5	5	5	5	5	5			5
10^{-4}	21			9	9	9	9	9			5
10^{-5}	29			25	19	18	20	19			23
10^{-6}	93							38			80
10^{-7}	159										159
10^{-8}											



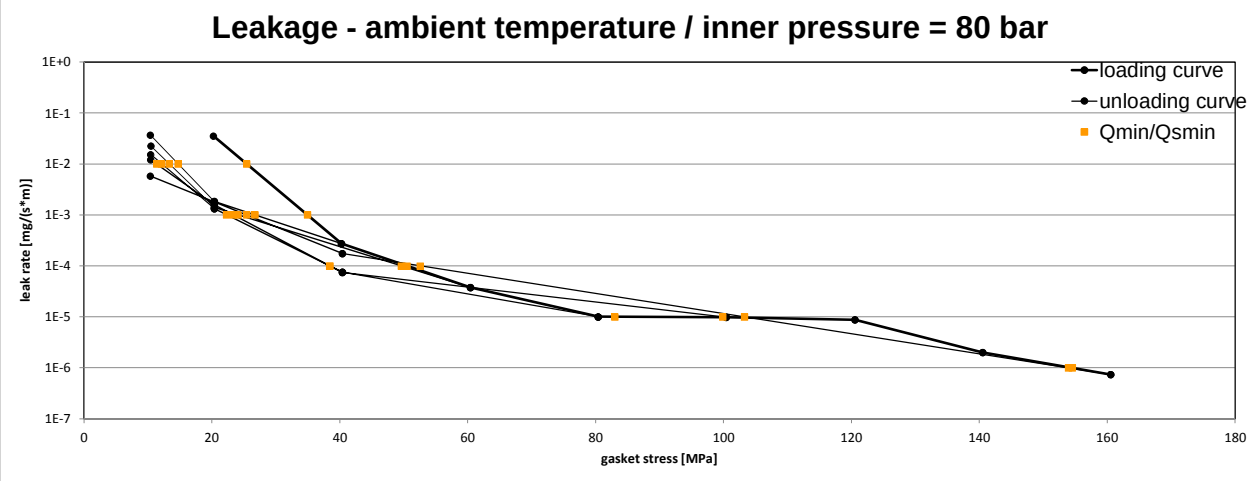
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $\mathbf{Q_{min/L}}$ (at assembly), $\mathbf{Q_{Smin/L}}$ (after off-loading) for p = 40 bar									
		$Q_{Smin/L}$ [MPa]									
		Q_A= 10 MPa	Q_A= 20 MPa	Q_A= 30 MPa	Q_A= 40 MPa	Q_A= 60 MPa	Q_A= 80 MPa	Q_A= 100 MPa	Q_A= 120 MPa	Q_A= 140 MPa	Q_A= 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}	13		7	6	5	5	5	5			5
10^{-3}	19		15	10	10	9	9	8			5
10^{-4}	30				18	16	16	18			14
10^{-5}	64						32	32			48
10^{-6}	128										127
10^{-7}											
10^{-8}											



Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: 2	Creation date of this sheet:	*18.06.2012*

Company Address	*IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany*
Gasket Type	*IDT - Corrugated gasket with graphite layers; WS 1.4571/3803; IDT style WD10; LE*
Sealing element dimensions [mm]	*92 x 49 x 3*

L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $\mathbf{Q_{min/L}}$ (at assembly), $\mathbf{Q_{Smin/L}}$ (after off-loading) for p = 80 bar									
		$Q_{Smin/L}$ [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}	20	10	10	10	10			10			
10^{-1}	20	10	10	10	10			10			
10^{-2}	25	15	13	12	11			10			
10^{-3}	35	27	24	22	23			25			
10^{-4}	51		50	38	38			53			
10^{-5}	83				100			103			
10^{-6}	155							154			
10^{-7}											
10^{-8}											



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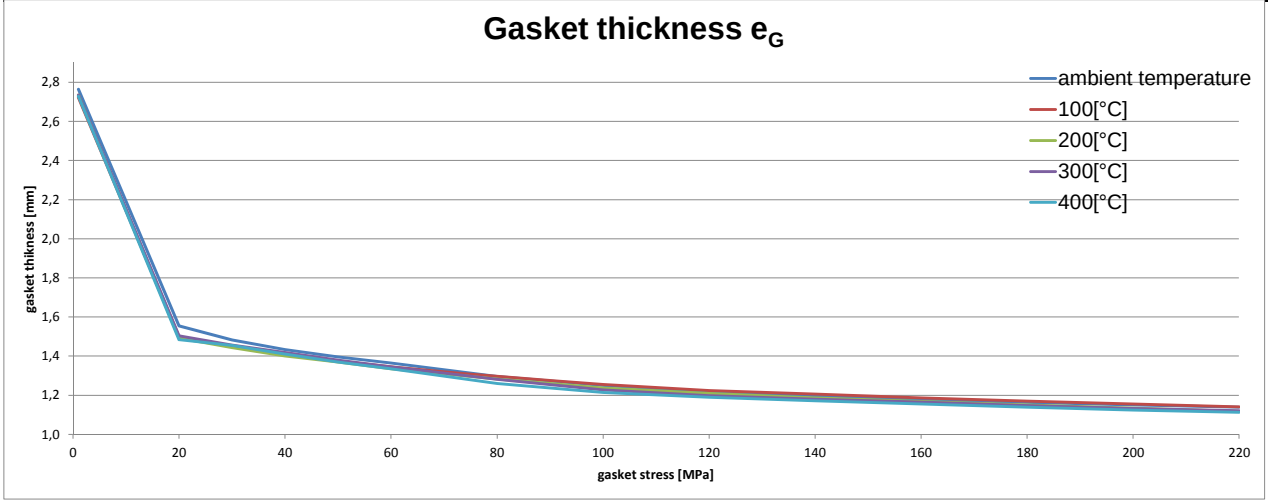
Company Address	*IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany*
Gasket Type	*IDT - Corrugated gasket with graphite layers; WS 1.4571/3803; IDT style WD10; LE*
Sealing element dimensions [mm]	*92 x 49 x 3*

Relaxation ratio P_{QR} for stiffness **C** = 500 kN/mm					
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [200 °C]	temperature 3 [300 °C]	temperature 4 [400 °C]
Stress level 1 [10 MPa]	0,96	0,69	0,69	0,69	0,71
Stress level 2 [20 MPa]	0,95	0,81	0,78	0,79	0,71
Stress level 3 [30 MPa]	0,97	0,85	0,84	0,82	0,80
Stress level 4 [40 MPa]	0,97	0,89	0,87	0,86	0,83
Stress level 5 [80 MPa]	0,99	0,95	0,93	0,94	0,92
PQR at Q_{Smax}	1,00 *at 230 MPa*	0,99 *at 230 MPa*	0,98 *at 230 MPa*	0,97 *at 230 MPa*	0,96 *at 230 MPa*

Maximal applicable gasket stress Q_{Smax}				
Q_{Smax} [MPa] ambient temperature	Q_{Smax} [MPa] – temperature 1 [100 °C]	Q_{Smax} [MPa] – temperature 2 [200 °C]	Q_{Smax} [MPa] – temperature 3 [300 °C]	Q_{Smax} [MPa] – temperature 4 [400 °C]
230	230	230	230	230

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 [200 °C]		temperature 3 [300 °C]		temperature 4 [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										
1		2,764		2,721		2,735		2,735		2,727
20	1056	1,554	966	1,498	803	1,492	1193	1,504	1359	1,484
30	1818	1,483	1509	1,449	1540	1,443	1027	1,456	2226	1,455
40	1399	1,434	1697	1,409	1867	1,400	2515	1,418	2013	1,410
50	2962	1,397	2530	1,375	2689	1,370	1786	1,380	2489	1,370
60	2634	1,365	2487	1,347	2364	1,336	4068	1,346	3133	1,335
80	3311	1,297	3223	1,295	2988	1,284	3891	1,282	3250	1,261
100	4391	1,250	3782	1,255	3372	1,237	3243	1,227	3474	1,215
120	5554	1,218	5280	1,224	5548	1,209	5686	1,198	5505	1,190
140	6905	1,198	7985	1,206	5169	1,187	7355	1,179	6086	1,171
160	6574	1,178	6755	1,187	6458	1,168	6937	1,165	5833	1,155
180	6957	1,164	6344	1,171	6219	1,150	6131	1,146	5274	1,139
200	7070	1,150	6107	1,155	5543	1,134	5603	1,132	5691	1,125
220	7829	1,138	6190	1,141	5975	1,118	5826	1,121	5308	1,113



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