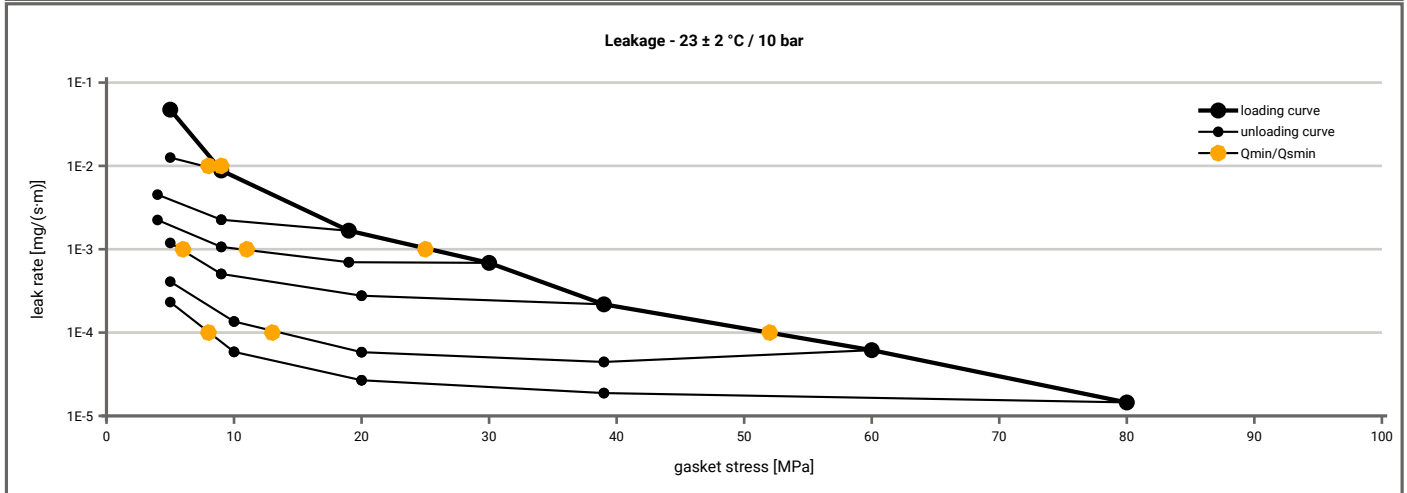
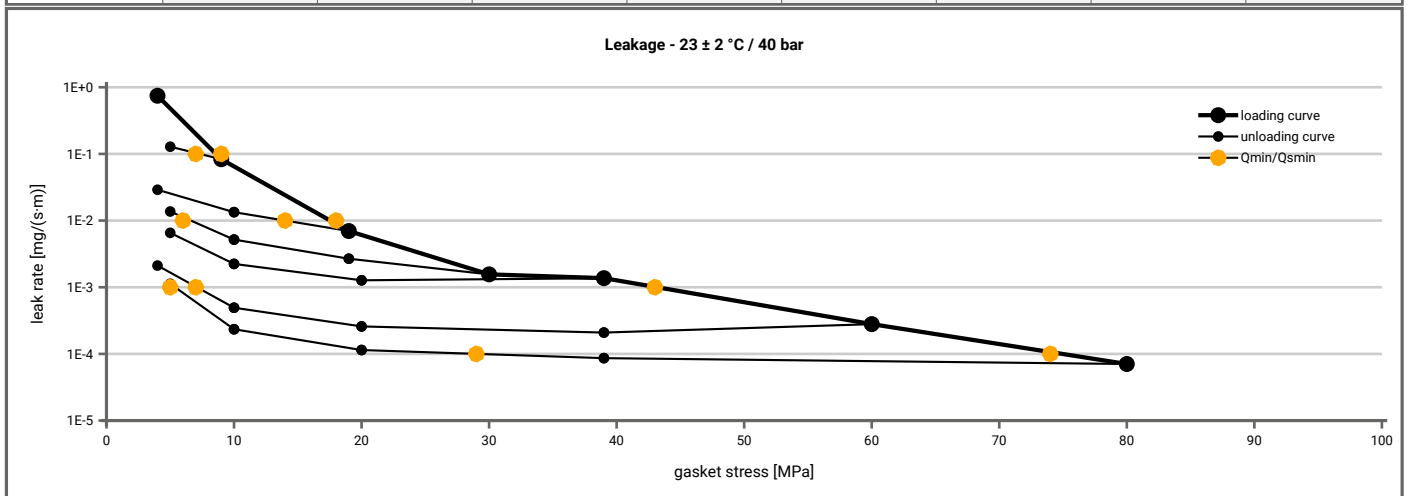


Manufacturer address	IDT Industrie- und Dichtungstechnik GmbH, Adlerstraße 18, 45307 Essen, DE	According to DIN EN 13555 2005-2
Product name	IDT - SIGRAFLEX Universal Pro with inner eyelet; WS 3865 IB; IDT style FD10; LE	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ bar ($T = 23 \pm 2$ °C)								
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]						
		$Q_A = 5$ [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]
1E-0	5		5	5	5	5	5	5
1E-1	5		5	5	5	5	5	5
1E-2	10		8	5	5	5	5	5
1E-3	26				11	6	5	5
1E-4	52						14	8
1E-5								
1E-6								
1E-7								
1E-8								



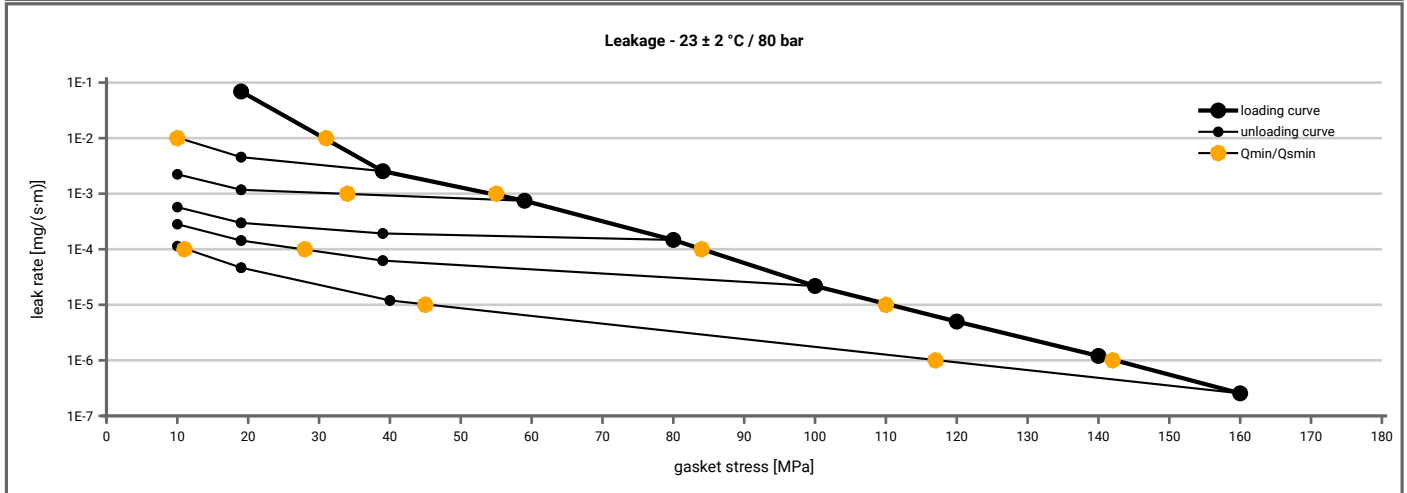
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °C)								
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]						
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E-0	5		5	5	5	5	5	5
1E-1	9		8	5	5	5	5	5
1E-2	18			14	7	5	5	5
1E-3	44						8	5
1E-4	75							30
1E-5								
1E-6								
1E-7								
1E-8								



Note: the content of darkened cells was not determined respectively is unnecessary Rev.-No.: 1 Creation date of this sheet: 2012-06-18

Manufacturer address	IDT Industrie- und Dichtungstechnik GmbH, Adlerstraße 18, 45307 Essen, DE	According to DIN EN 13555 2005-2
Product name	IDT - SIGRAFLEX Universal Pro with inner eyelet; WS 3865 IB; IDT style FD10; LE	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 80$ bar ($T = 23 \pm 2$ °C)									
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [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]
1E-0	20		10	10	10	10			10
1E-1	20		10	10	10	10			10
1E-2	32		10	10	10	10			10
1E-3	55			34	10	10			10
1E-4	84					29			11
1E-5	111								46
1E-6	142								117
1E-7									
1E-8									



Manufacturer address	IDT Industrie- und Dichtungstechnik GmbH, Adlerstraße 18, 45307 Essen, DE	According to DIN EN 13555 2005-2
Product name	IDT - SIGRAFLEX Universal Pro with inner eyelet; WS 3865 IB; IDT style FD10; LE	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [200 °C]		Temperature 3 [300 °C]		Temperature 4 [400 °C]	
	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]
Stress level 1 [20 MPa]	0.97	5	0.90	17	0.88	21	0.86	23	0.85	26
Stress level 2 [50 MPa]	0.99	4	0.96	17	0.94	25	0.95	23	0.95	23
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	1.00	0	0.99	13	0.99	19	0.98	22	0.98	20
Q_{smax}	200 MPa		160 MPa		150 MPa		130 MPa		120 MPa	

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [150 °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	0	1.812	0	1.801	0	1.810	0	1.803	0	1.813
1	0	1.812	0	1.801	0	1.810	0	1.803	0	1.813
20	490	1.346	514	1.307	496	1.329	491	1.289	477	1.316
30	848	1.250	923	1.227	796	1.250	771	1.227	908	1.259
40	1140	1.192	1087	1.174	1424	1.198	1107	1.170	1007	1.198
50	1485	1.151	1592	1.136	1219	1.152	1516	1.133	1566	1.161
60	1659	1.120	1682	1.105	1994	1.126	1687	1.102	1619	1.128
80	2592	1.075	2571	1.068	2151	1.082	1987	1.059	2299	1.086
100	3356	1.047	2847	1.039	3760	1.058	2727	1.030	3249	1.060
120	3801	1.024	3391	1.016	3353	1.035	3496	1.010	3469	1.039
140	4603	1.007	2892	0.995	3846	1.017				
160	4173	0.988	3083	0.976						
180	4234	0.972								
200	4070	0.958								

