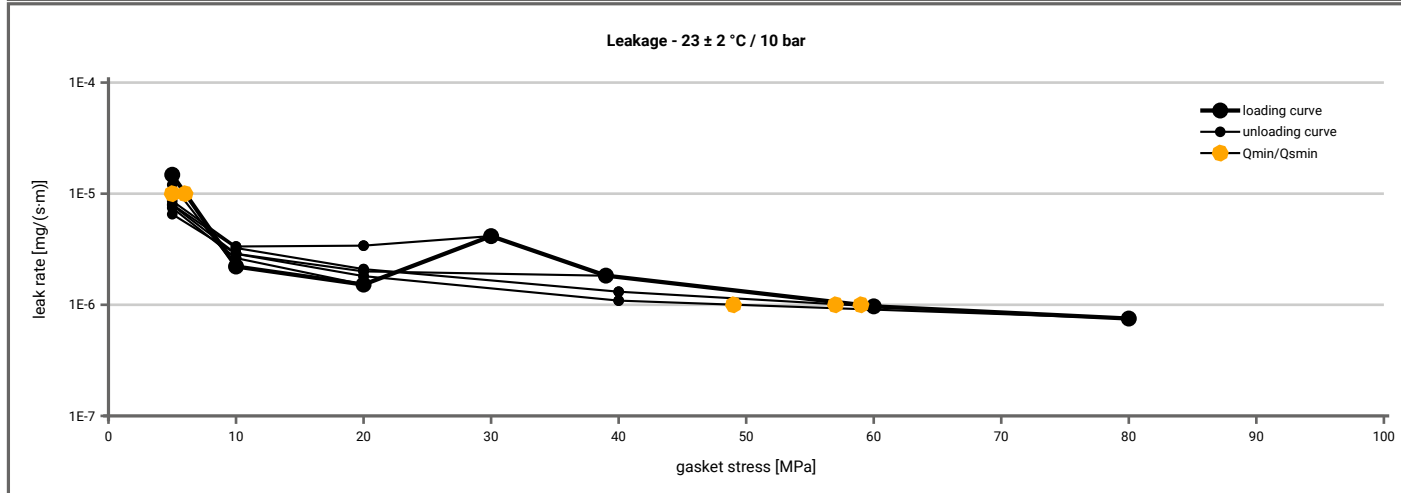
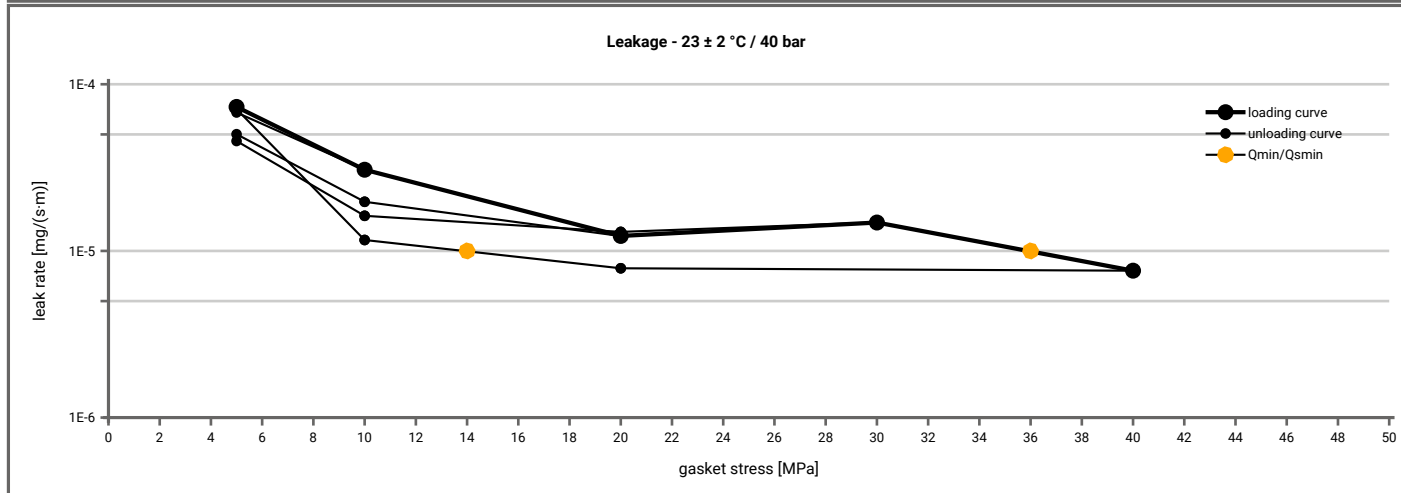


Manufacturer address	IDT Industrie- und Dichtungstechnik GmbH, Adlerstraße 18, 45307 Essen, DE	According to DIN EN 13555 2005-2
Product name	IDT - PTFE TFM Envelope gasket with corrugated stainless steel ring; WS 7110/1.4571; IDT style ED01; LE	
Product dimensions	92 x 49 x 3.5 mm (DIN EN 1514-1 1997-8)	

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	5		5	5	5	5	5	5
1E-3	5		5	5	5	5	5	5
1E-4	5		5	5	5	5	5	5
1E-5	6		6	5	5	5	5	5
1E-6	59						58	49
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]
1E-0	5		5	5	5	5
1E-1	5		5	5	5	5
1E-2	5		5	5	5	5
1E-3	5		5	5	5	5
1E-4	5		5	5	5	5
1E-5	36					14
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
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Manufacturer address	IDT Industrie- und Dichtungstechnik GmbH, Adlerstraße 18, 45307 Essen, DE	According to DIN EN 13555 2005-2
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Product dimensions	92 x 49 x 3.5 mm (DIN EN 1514-1 1997-8)	

Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [150 °C]		Temperature 3 [200 °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 [30 MPa]	0.84	40	0.70	77	0.70	76	0.65	89		
Stress level 2 [50 MPa]	0.94	25	0.83	71	0.73	113	0.62	162		
Stress level 3 [60 MPa]			0.81	96	0.73	138	0.66	174		
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.93	57	0.80	117	0.73	138	0.66	174		
Q_{smax}	90 MPa		70 MPa		60 MPa		60 MPa			

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [150 °C]		Temperature 3 [200 °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	3.400	0	3.415	0	3.275	0	3.430		
1	0	3.373	0	3.410	0	3.236	0	3.418		
20	424	2.288	428	2.048	579	2.012	600	2.038		
30	916	2.086	896	1.992	1110	1.952	795	1.913		
40	1295	2.000	1178	1.940	1579	1.861	1004	1.776		
50	1447	1.950	1517	1.862	1911	1.752	1112	1.641		
60	1734	1.913	1763	1.748	1976	1.645	1507	1.463		
80	2652	1.833								

