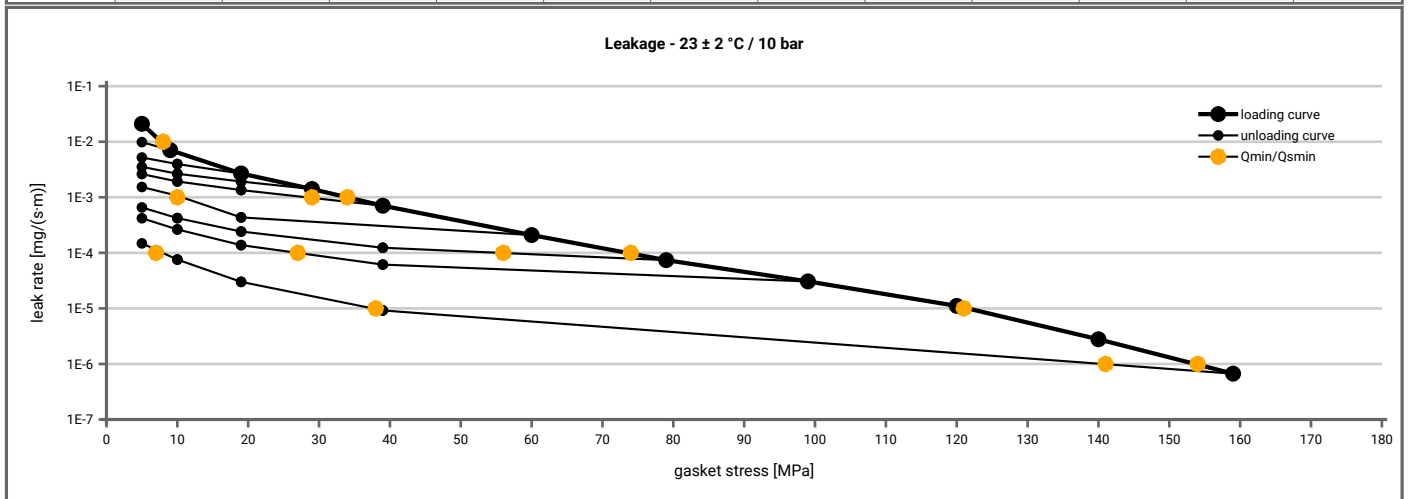
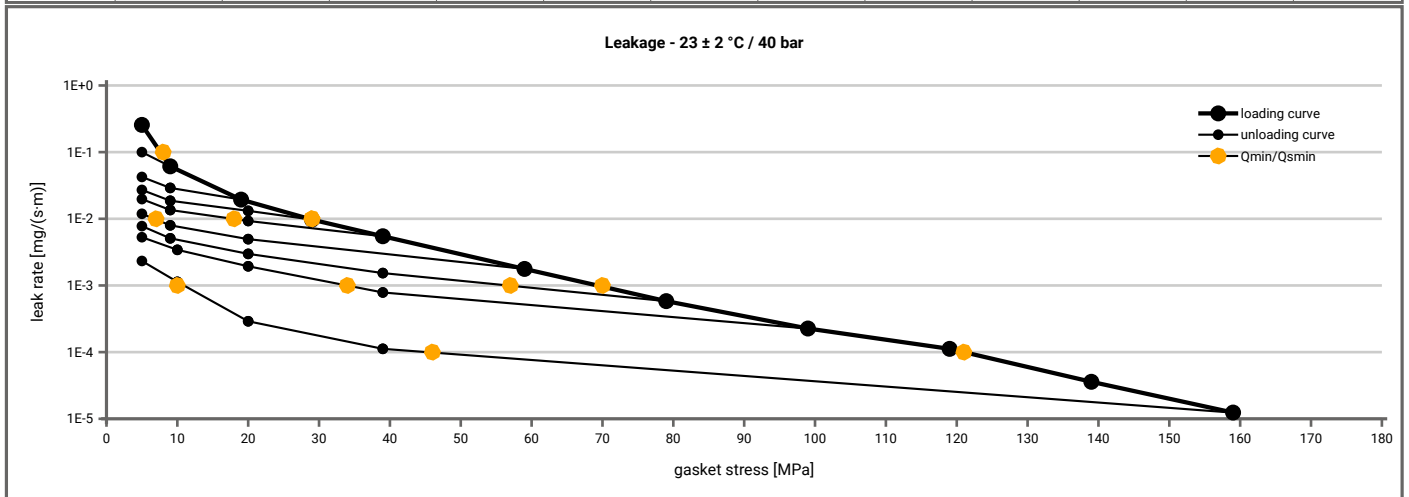


Manufacturer address	IDT Industrie- und Dichtungstechnik GmbH, Adlerstraße 18, 45307 Essen, DE	According to DIN EN 13555 2005-2
Product name	IDT-SIGRAFLEX-Hochdruck Flachdichtung WS 3885-IB 1.4571 0,1 mm	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

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]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E-0	5		5	5	5	5	5	5	5			5
1E-1	5		5	5	5	5	5	5	5			5
1E-2	8		5	5	5	5	5	5	5			5
1E-3	35					29	11	5	5			5
1E-4	74							56	28			8
1E-5	121											38
1E-6	154											141
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]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E-0	5		5	5	5	5	5	5	5			5
1E-1	8		5	5	5	5	5	5	5			5
1E-2	30					29	18	7	5	5		5
1E-3	70							58	35			11
1E-4	122											46
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: 2011-11-02

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Product name	IDT-SIGRAFLEX-Hochdruck Flachdichtung WS 3885-IB 1.4571 0,1 mm	
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 [300 °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]	0.98	6	0.96	11	0.93	18				
Stress level 2 [50 MPa]	0.98	8	0.98	10	0.96	19				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	1.00	0	1.00	8	0.99	17				
Q_{smax}	200 MPa		200 MPa		200 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 [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	0	2.008	0	2.029	0	2.005				
1	0	2.008	0	2.029	0	2.005				
20	370	1.379	399	1.383	454	1.348				
30	548	1.296	644	1.319	722	1.290				
40	881	1.254	907	1.274	997	1.245				
50	1005	1.216	1085	1.239	1262	1.211				
60	1359	1.190	1401	1.212	1447	1.183				
80	1996	1.151	1805	1.171	2119	1.145				
100	1970	1.119	2231	1.143	2057	1.113				
120	2455	1.096	2578	1.120	2461	1.090				
140	2927	1.077	2828	1.101	2788	1.071				
160	3031	1.060	2734	1.082	3135	1.051				
180	2958	1.042	3301	1.069	3400	1.038				
200	3161	1.028	3480	1.054	3273	1.020				

