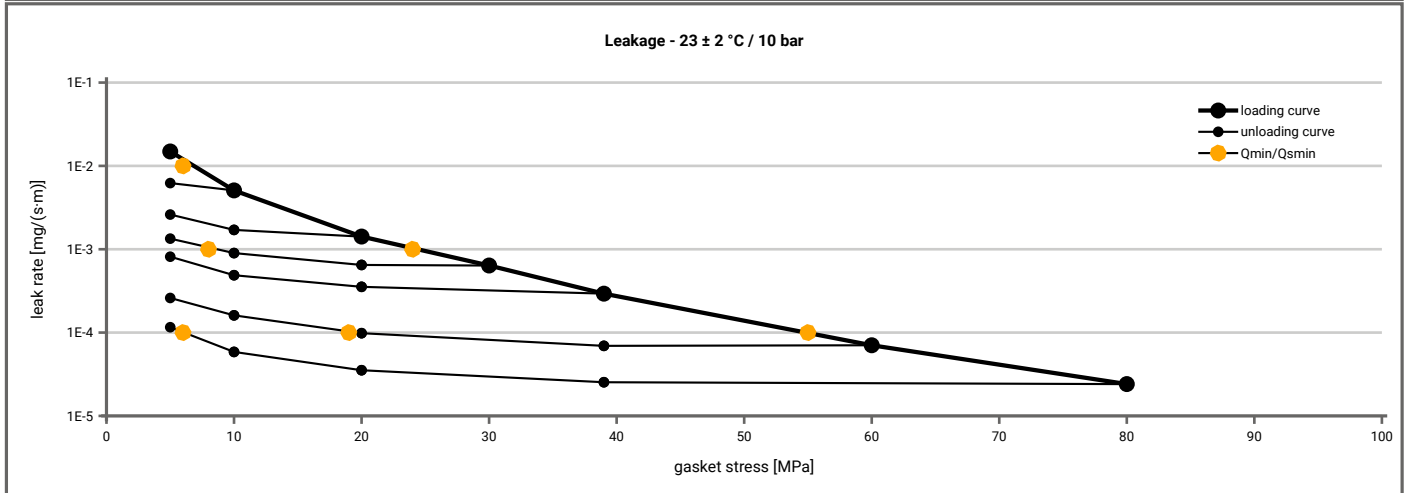
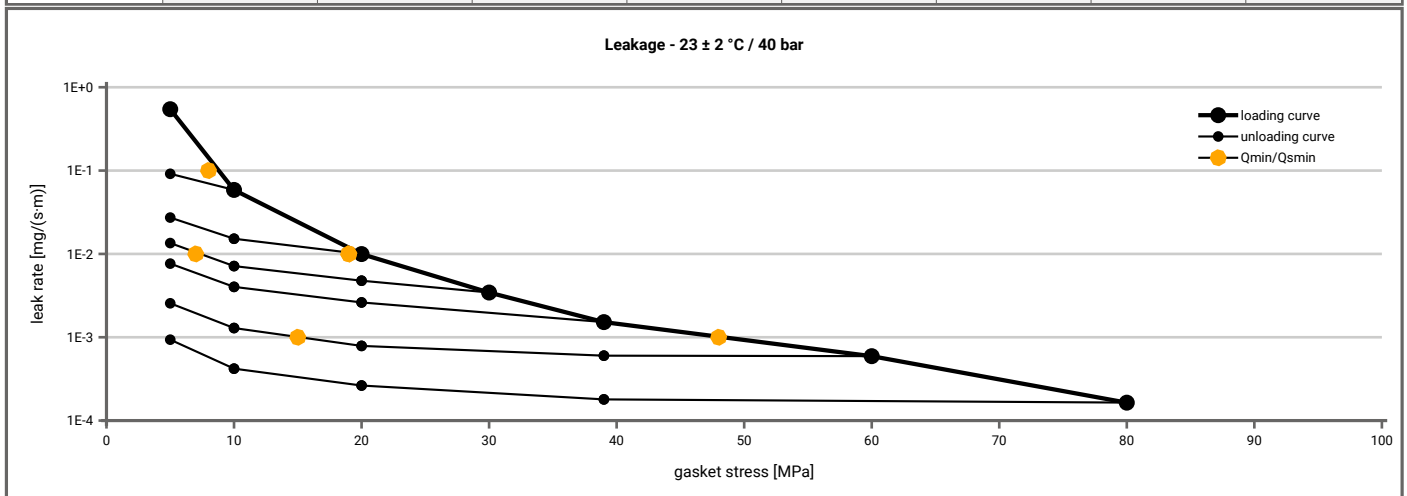


<b>Manufacturer address</b>	IDT Industrie- und Dichtungstechnik GmbH, Adlerstraße 18, 45307 Essen, DE	According to <b>DIN EN 13555</b> <b>2005-2</b>
<b>Product name</b>	IDT - SIGRAFLEX Hochdruck Pro with inner eyelet; WS 3888 IB; IDT style FD10; LE	
<b>Product dimensions</b>	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10 \text{ bar}$ ( $T = 23 \pm 2 \text{ }^\circ\text{C}$ )								
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	7		5	5	5	5	5	5
1E-3	24				9	5	5	5
1E-4	55						20	6
1E-5								
1E-6								
1E-7								
1E-8								



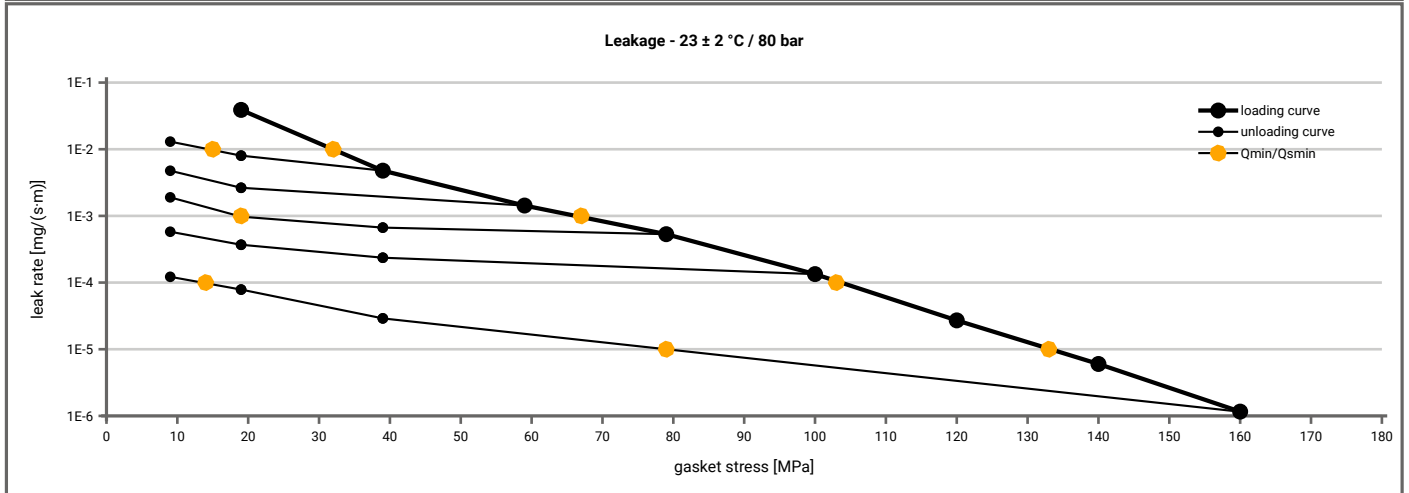
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40 \text{ bar}$ ( $T = 23 \pm 2 \text{ }^\circ\text{C}$ )								
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]						
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E-0	5		5	5	5	5	5	5
1E-1	9		5	5	5	5	5	5
1E-2	20			20	7	5	5	5
1E-3	49						15	5
1E-4								
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

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<b>Product name</b>	IDT - SIGRAFLEX Hochdruck Pro with inner eyelet; WS 3888 IB; IDT style FD10; LE	
<b>Product dimensions</b>	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	33		15	10	10	10			10
1E-3	67				19	10			10
1E-4	104								14
1E-5	133								80
1E-6									
1E-7									
1E-8									



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<b>Product name</b>	IDT - SIGRAFLEX Hochdruck Pro with inner eyelet; WS 3888 IB; IDT style FD10; LE	
<b>Product dimensions</b>	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]		Temperature 3 [400 °C]		$P_{QR}$	$\Delta e_{Gc}$ [µm]
	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]		
Stress level 1 [30 MPa]	0.99	4	0.93	18	0.92	21	0.92	20		
Stress level 2 [50 MPa]	0.99	4	0.96	19	0.95	21	0.95	21		
$P_{QR}$ and $\Delta e_{Gc}$ at maximum gasket stress to be applied $Q_{smax}$										
$P_{QR}$ at $Q_{smax}$	1.00	0	0.99	13	0.97	30	0.97	30		
$Q_{smax}$	200 MPa		160 MPa		120 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 [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	0	1.998	0	1.973	0	1.902	0	1.924			
1	0	1.998	0	1.973	0	1.902	0	1.924			
20	314	1.508	475	1.474	419	1.467	394	1.482			
30	505	1.419	584	1.399	864	1.414	622	1.426			
40	933	1.372	910	1.352	1132	1.361	926	1.369			
50	976	1.327	1087	1.306	1419	1.322	869	1.318			
60	1329	1.294	1398	1.272	1611	1.289	1580	1.289			
80	2177	1.252	1804	1.219	2417	1.242	1685	1.227			
100	2405	1.215	2637	1.189	3226	1.210	2241	1.191			
120	2858	1.188	3914	1.172	3653	1.184	3103	1.140			
140	3310	1.168	4528	1.158							
160	4759	1.156	5165	1.146							
180	6620	1.147									
200	7071	1.135									

