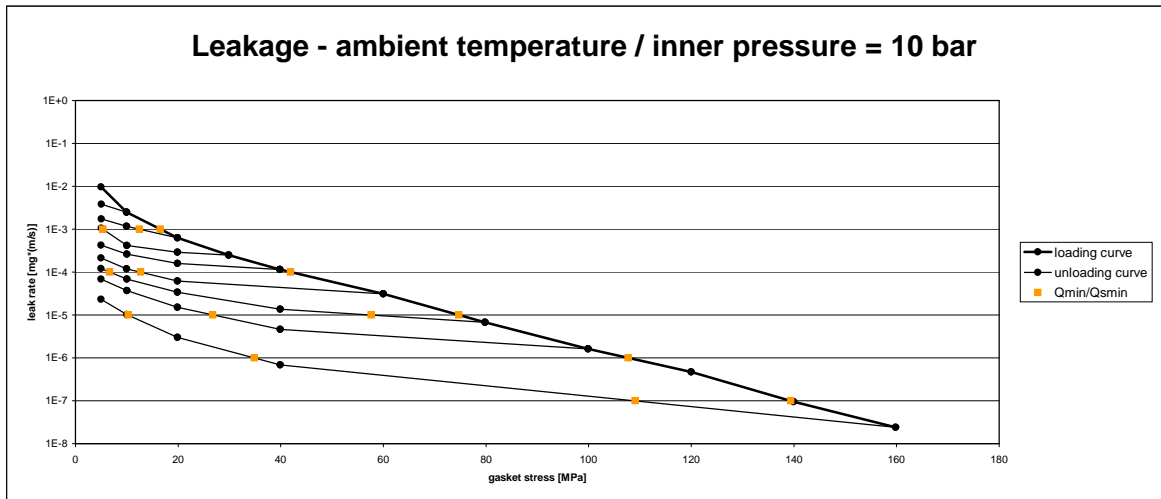
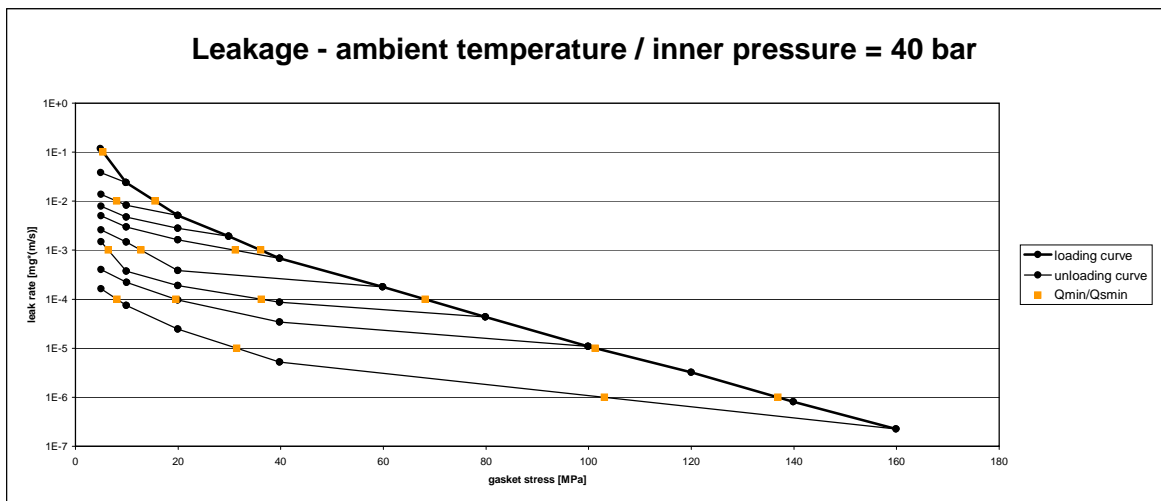


Company Address	IDT Industrie- und Dichtungstechnik GmbH, IDT Werk Kupferring, Postfach 100152, D-09441 Annaberg-Buchholz, Germany
Gasket Type	IDT-Sigraflex-Universal Pro, IDT-WS 3865, FD01
Sealing element dimensions [mm]	92 x 49 x 2.0

		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for $p = 10$ bar									
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [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}	17		12	5	5	5	5	5			5
10^{-4}	42					13	7	5			5
10^{-5}	75						58	27			10
10^{-6}	108										35
10^{-7}	139										109
10^{-8}											



		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for $p = 40$ bar									
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [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}	16		8	5	5	5	5	5			5
10^{-3}	36				31	13	6	5			5
10^{-4}	68						36	20			8
10^{-5}	101										31
10^{-6}	137										103
10^{-7}											
10^{-8}											



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Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm				
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [300 °C]	
Stress level 1 [30 MPa]	0,97	0,93	0,89	
Stress level 2 [50 MPa]	0,99	0,97	0,95	
PQR at Q_{Smax}	1,00 at 200 MPa	0,99 at 200 MPa	0,99 at 160 MPa	

Maximal applicable gasket stress Q_{Smax}				
Q_{Smax} [MPa] ambient temperature	Q_{Smax} [MPa] – temperature 1 [150 °C]	Q_{Smax} [MPa] – temperature 2 [300 °C]	Q_{Smax} [MPa] – temperature 3	Q_{Smax} [MPa] – temperature 4
200	200	160		

Sekant unloading modulus of the gasket E_G [MPa]				
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [300 °C]	
20	433	569	547	
30	814	1030	1032	
40	1066	1086	1170	
50	1077	1289	1339	
60	1645	1366	1550	
80	2628	3210	3184	
100	2375	2859	2984	
120	4666	3119	3266	
140	4919	4768	4307	
160	7545	6044	5493	
180	11339	8752		
200	9901	7804		
220				
240				
260				
280				
300				
320				
340				
360				
380				
400				
420				
440				
460				
480				
500				
835				