
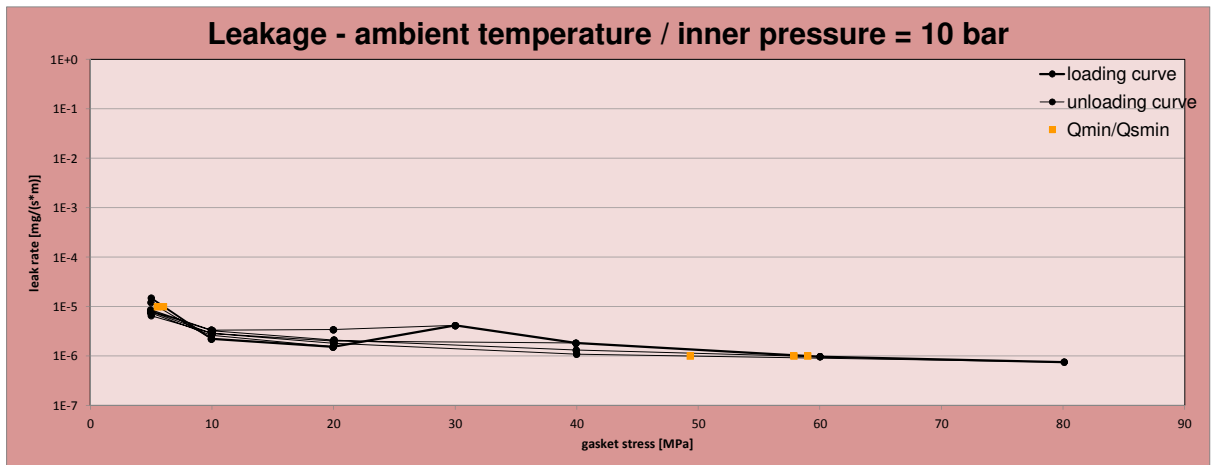
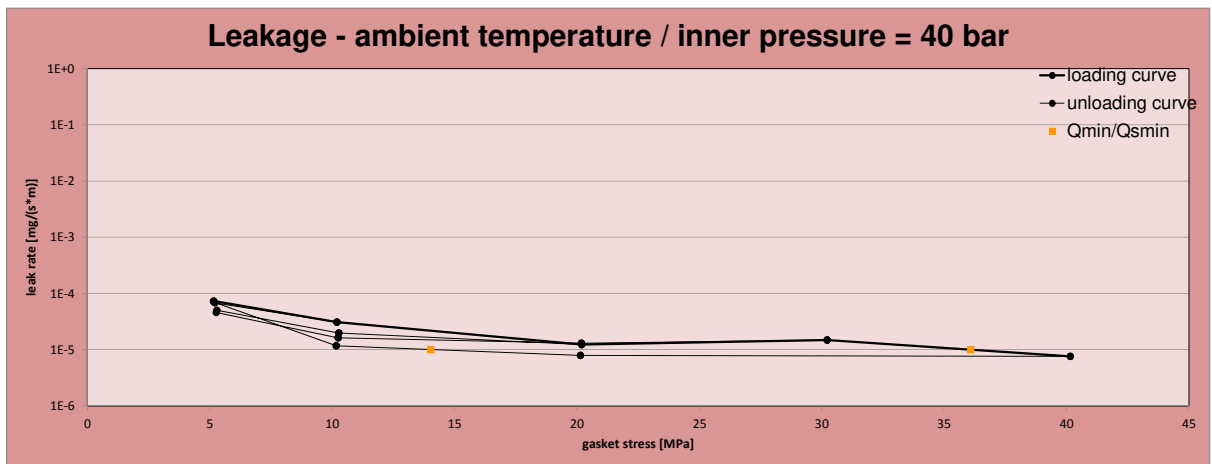


Company Address	IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany	
Gasket Type	IDT-HASTOFLON®-Elastik-Dichtung PW-I WS 7110/1.4571, ED01	
Sealing element dimensions [mm]	49x92x3,5	


L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 10 bar							
		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		
10 ⁻⁰	5	5	5	5	5	5	5		
10 ⁻¹	5	5	5	5	5	5	5		
10 ⁻²	5	5	5	5	5	5	5		
10 ⁻³	5	5	5	5	5	5	5		
10 ⁻⁴	5	5	5	5	5	5	5		
10 ⁻⁵	6	6	5	5	5	5	5		
10 ⁻⁶	59					58	49		
10 ⁻⁷									
10 ⁻⁸									



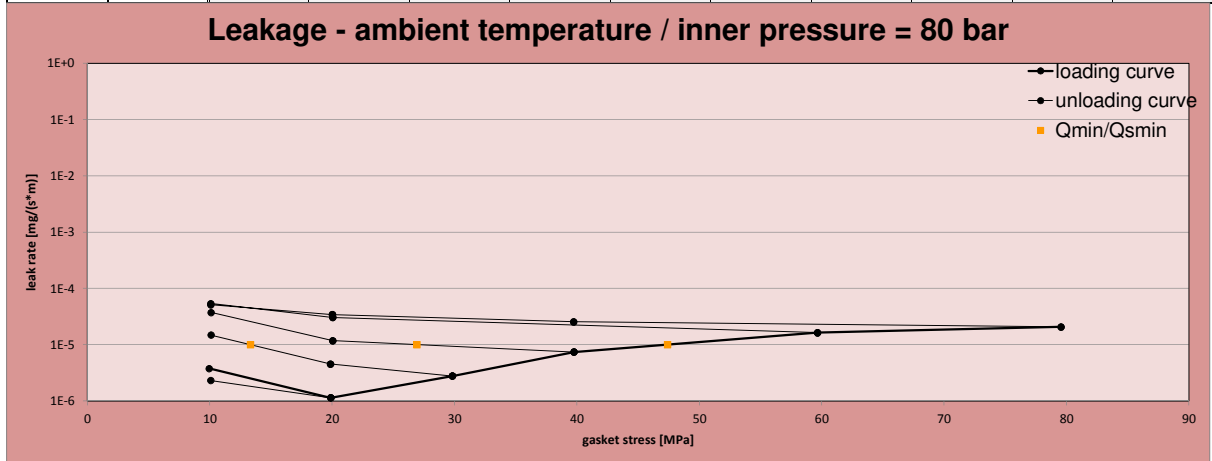
L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 40 bar				
		Q _{Smin/L} [MPa]				
		Q _A = 10 MPa	Q _A = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	
10 ⁻⁰	5	5	5	5	5	
10 ⁻¹	5	5	5	5	5	
10 ⁻²	5	5	5	5	5	
10 ⁻³	5	5	5	5	5	
10 ⁻⁴	5	5	5	5	5	
10 ⁻⁵	36				14	
10 ⁻⁶						
10 ⁻⁷						
10 ⁻⁸						




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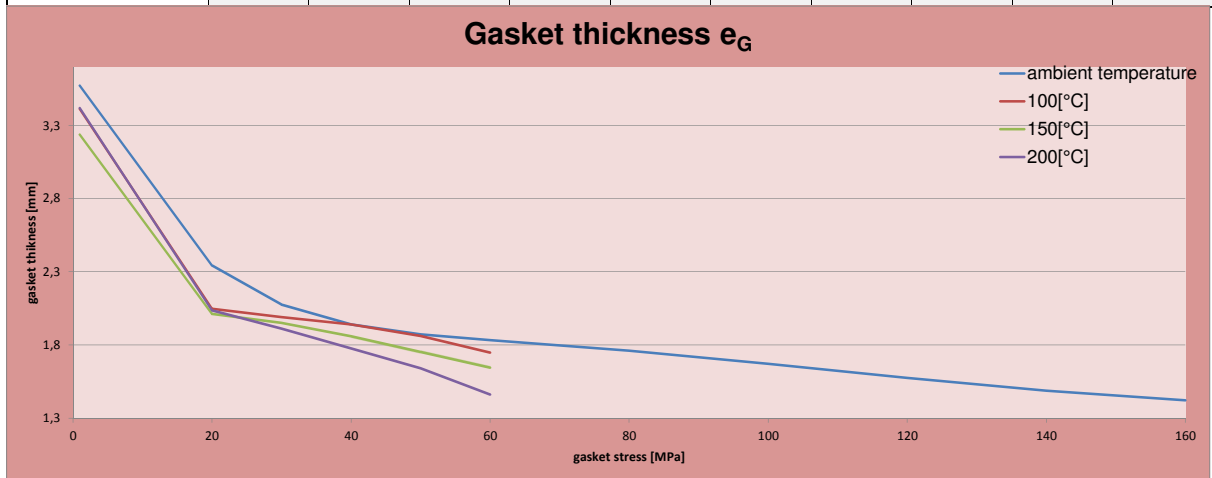
L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 80 bar					Q _{Smin/L} [MPa]				
		Q _A = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa					
		10 ⁻⁰		10	10	10	10	10			
10 ⁻¹		10	10	10	10	10					
10 ⁻²		10	10	10	10	10					
10 ⁻³		10	10	10	10	10					
10 ⁻⁴		10	10	10	10	10					
10 ⁻⁵	47		13	27							
10 ⁻⁶											
10 ⁻⁷											
10 ⁻⁸											



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Sealing element dimensions [mm]	49x92x3,5	

Relaxation ratio P_{OR} for stiffness $C = 500$ kN/mm										
Gasket stress	ambient temperature		temperature 1 [100 °C]		temperature 2 [150 °C]		temperature 3 [200 °C]		P_{OR}	Δe_{Gc} [mm]
	P_{OR}	Δe_{Gc} [mm]	P_{OR}	Δe_{Gc} [mm]	P_{OR}	Δe_{Gc} [mm]	P_{OR}	Δe_{Gc} [mm]		
Stress level 1 [30 MPa]	0,84	0,040	0,70	0,077	0,70	0,076	0,65	0,089		
Stress level 2 [50 MPa]	0,94	0,025	0,83	0,071	0,73	0,113	0,62	0,162		
Stress level 3 [60 MPa]			0,81	0,096						
Stress level 4 [90 MPa]	0,93	0,057								
Stress level 5 [100 MPa]	0,94	0,055								
P _{OR} and Δe_{Gc} at maximal applicable gasket stress Q_{Smax}										
P_{OR} at Q_{Smax}	0,95	0,063	0,80	0,117	0,73	0,138	0,66	0,174		
Q_{Smax}	150 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]	ambient temperature		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		3,615		3,415		3,275		3,430		
1		3,570		3,411		3,236		3,418		
20	557	2,342	428	2,049	579	2,012	600	2,038		
30	839	2,076	895	1,992	1110	1,952	795	1,913		
40	1356	1,941	1178	1,940	1578	1,861	1004	1,776		
50	2068	1,873	1517	1,862	1911	1,753	1112	1,641		
60	2477	1,834	1763	1,748	1976	1,646	1506	1,463		
80	3061	1,762								
100	5118	1,672								
120	7518	1,576								
140	5870	1,489								
160	6609	1,422								
180										
200										
220										
240										
260										
280										
300										
320										
340										
360										
380										
400										
420										
440										
460										
480										
500										
940										



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