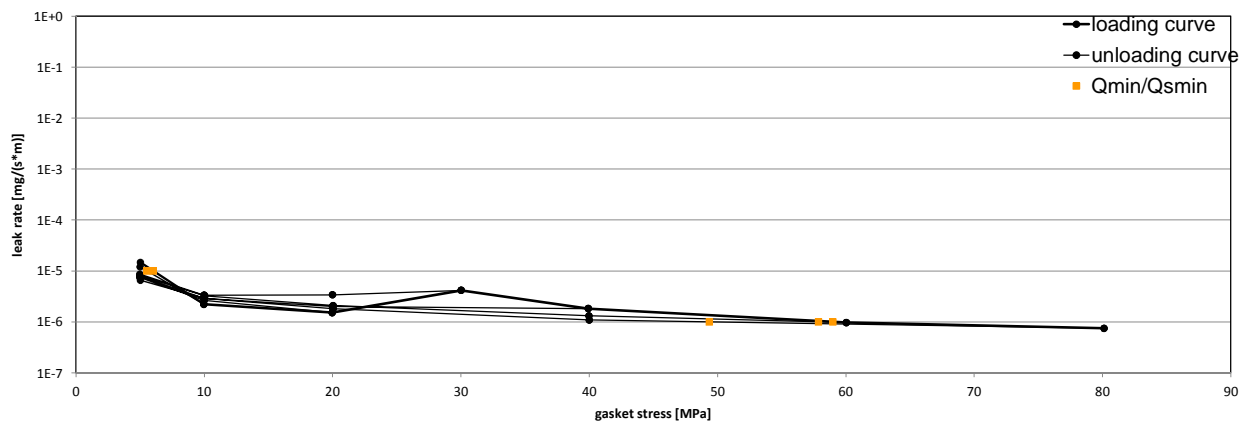


Company Address	IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany
Gasket Type	IDT – PTFE TFM Envelope gasket with corrugated stainless steel ring; WS 7110/1.4571; IDT style ED01; LE
Sealing element dimensions [mm]	92x49x3,5

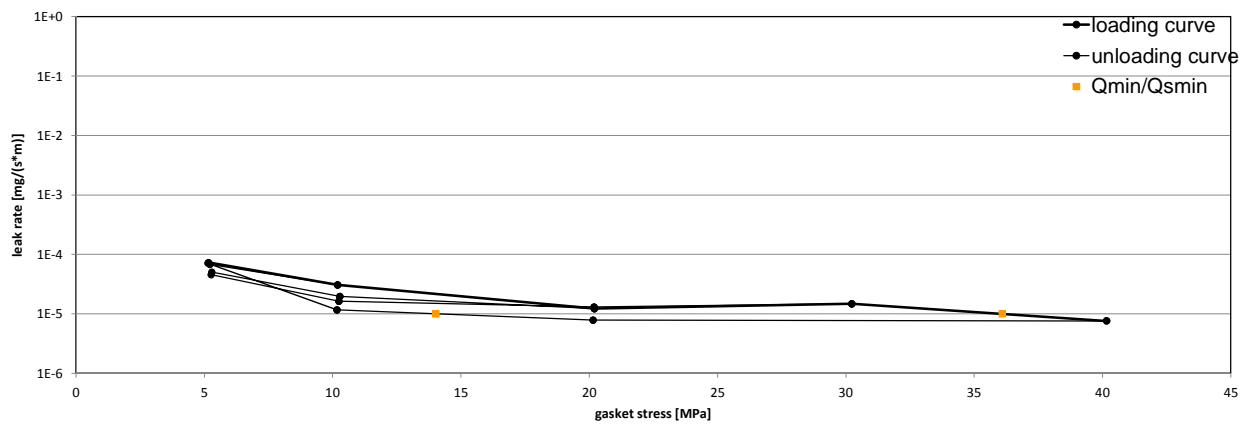
L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 10 bar									
		Q _{Smin/L} [MPa]									
		Q _A = 10 MPa	Q _A = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa				
10 ⁰	5	5	5	5	5	5	5				
10 ⁻¹	5	5	5	5	5	5	5				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

Leakage - ambient temperature / inner pressure = 10 bar



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											

Leakage - ambient temperature / inner pressure = 40 bar



Note: the content of darkened cells was not determined respectively is unnecessary

Rev - No: 1

Creation date of this sheet:

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page 1 of 2



Center of Sealing Technologies, Bürgerkamp 3, 48565 Steinfurt, Germany

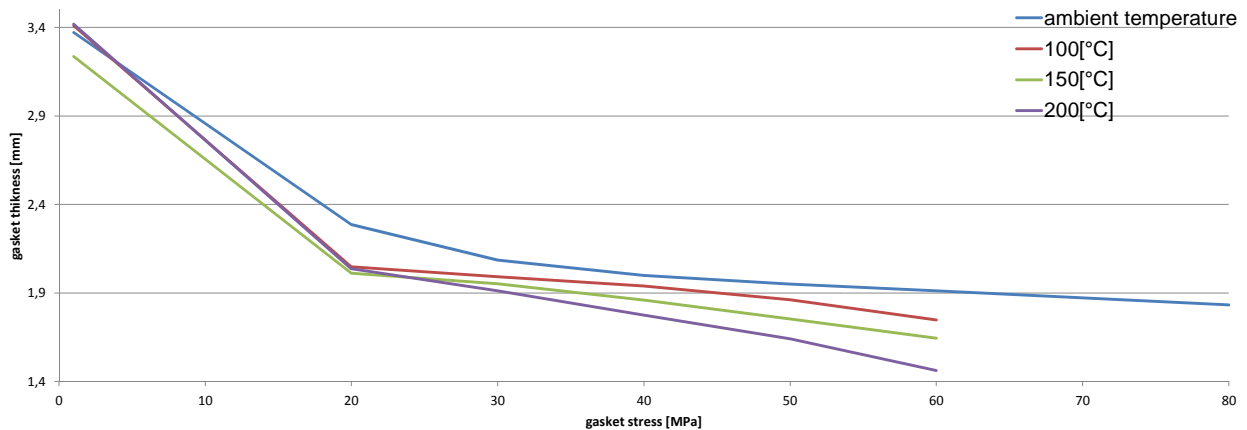
Company Address	IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany
Gasket Type	IDT – PTFE TFM Envelope gasket with corrugated stainless steel ring; WS 7110/1.4571; IDT style ED01; LE
Sealing element dimensions [mm]	92x49x3,5

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm					
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [150 °C]	temperature 3 [200 °C]	
Stress level 1 [30 MPa]	0,84	0,70	0,70	0,65	
Stress level 2 [50 MPa]	0,94	0,83	0,73	0,62	
Stress level 3 [60 MPa]		0,81			
PQR at Q_{Smax}	0,93 at 90 MPa	0,80 at 70 MPa	0,73 at 60 MPa	0,66 at 60 MPa	

Maximal applicable gasket stress Q_{Smax}				
Q_{Smax} [MPa] ambient temperature	Q_{Smax} [MPa] – temperature 1 [100 °C]	Q_{Smax} [MPa] – temperature 2 [150 °C]	Q_{Smax} [MPa] – temperature 3 [200 °C]	
90	70	60	60	

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]	
0		3,400		3,415		3,275		3,430	
1		3,373		3,411		3,236		3,418	
20	424	2,288	428	2,049	579	2,012	600	2,038	
30	915	2,086	895	1,992	1110	1,952	795	1,913	
40	1295	2,000	1178	1,940	1578	1,861	1004	1,776	
50	1446	1,951	1517	1,862	1911	1,753	1112	1,641	
60	1734	1,913	1763	1,748	1976	1,646	1506	1,463	
80	2652	1,834							

Gasket thickness e_G



Note: the content of darkened cells was not determined respectively is unnecessary

Rev - No: 1

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