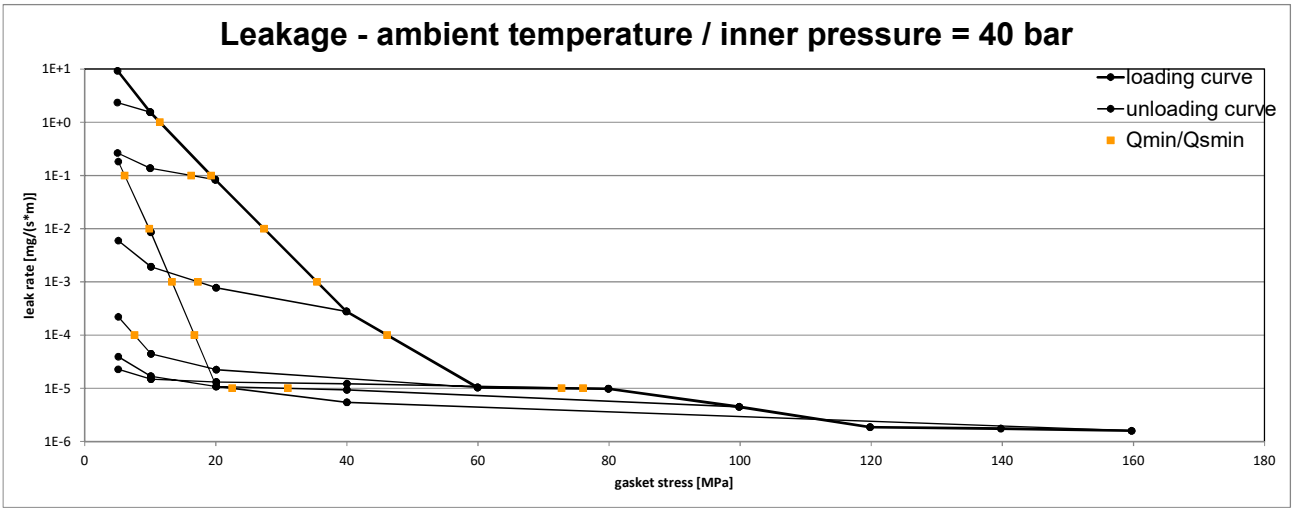
Company Address	*IDT Industrie- und Dichtungstechnik Werk Kupferring GmbH, Gewerbering 6, 09441 Annaberg-Buchholz*
Gasket Type	*IDT Type 7745*
Sealing element dimensions [mm]	*92 x 49 x 2*

L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $\mathbf{Q_{min/L}}$ (at assembly), $\mathbf{Q_{Smin/L}}$ (after off-loading) for p = 40 bar $Q_{Smin/L}$ [MPa]									
		Q_A= 10 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	
10^{-0}	11		5	5	5	5	5			5	
10^{-1}	19		16	5	5	5	5			6	
10^{-2}	27			5	5	5	5			10	
10^{-3}	35			17	5	5	5			13	
10^{-4}	46				8	5	5			17	
10^{-5}	73					76	31			23	
10^{-6}											
10^{-7}											
10^{-8}											



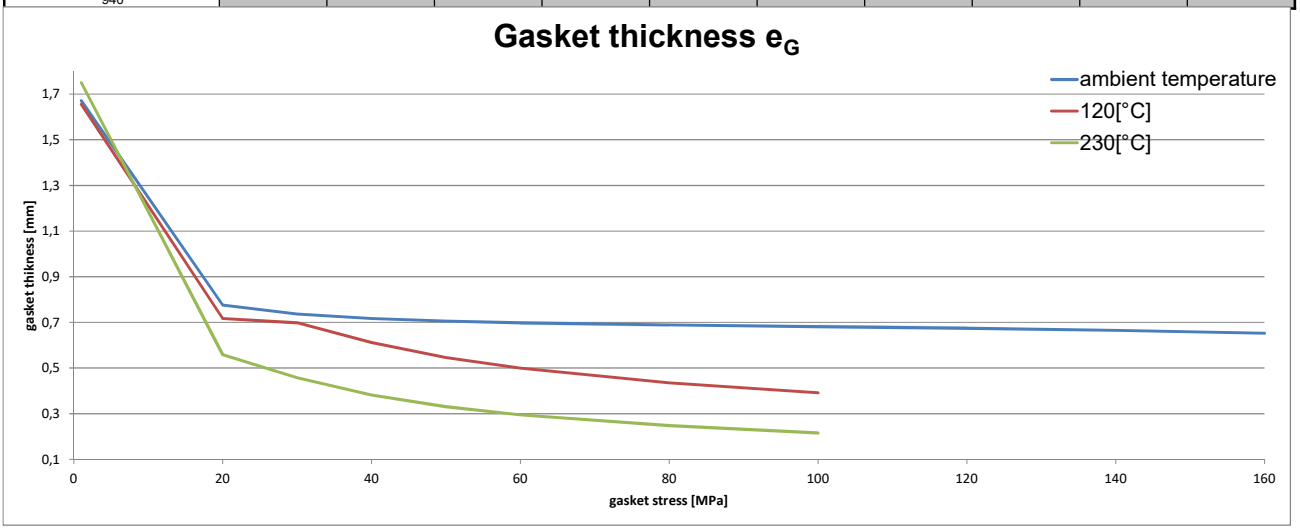
Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: **0**	Creation date of this sheet:	*17.07.2025*

Company Address	*IDT Industrie- und Dichtungstechnik Werk Kupferring GmbH, Gewerbering 6, 09441 Annaberg-Buchholz*
Gasket Type	*IDT Type 7745*
Sealing element dimensions [mm]	*92 x 49 x 2*

Relaxation ratio P_{QR} for stiffness **C** = 500 kN/mm					
Gasket stress [MPa]	ambient temperature	temperature 1 [120 °C]	temperature 2 [230 °C]		
Stress level 1 [30 MPa]	0,94	0,90	0,46		
Stress level 2 [50 MPa]	0,98	0,67	0,44		
PQR at Q_{Smax}	0,96 *at 160 MPa*	0,65 *at 100 MPa*	0,53 *at 100 MPa*		

Maximal applicable gasket stress Q_{Smax}				
Q_{Smax} [MPa] ambient temperature	Q_{Smax} [MPa] – temperature 1 [120 °C]	Q_{Smax} [MPa] – temperature 2 [230 °C]	Q_{Smax} [MPa] – temperature 3	Q_{Smax} [MPa] – temperature 4
160	100	100		

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [120 °C]		temperature 2 [230 °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										
1		1,67		1,66		1,75				
20	385	0,78	845	0,72	521	0,56				
30	721	0,74	1439	0,70	787	0,46				
40	1127	0,72	1901	0,61	864	0,38				
50	1556	0,71	1788	0,55	915	0,33				
60	1934	0,70	2329	0,50	908	0,29				
80	2517	0,69	2387	0,44	1202	0,25				
100	2877	0,68	2465	0,39	1178	0,22				
120	3194	0,67	2233		1049					
140	3359	0,67								
160	3521	0,65								
180	3557									
200										
220										
240										
260										
280										
300										
320										
340										
360										
380										
400										
420										
440										
460										
480										
500										
940										



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