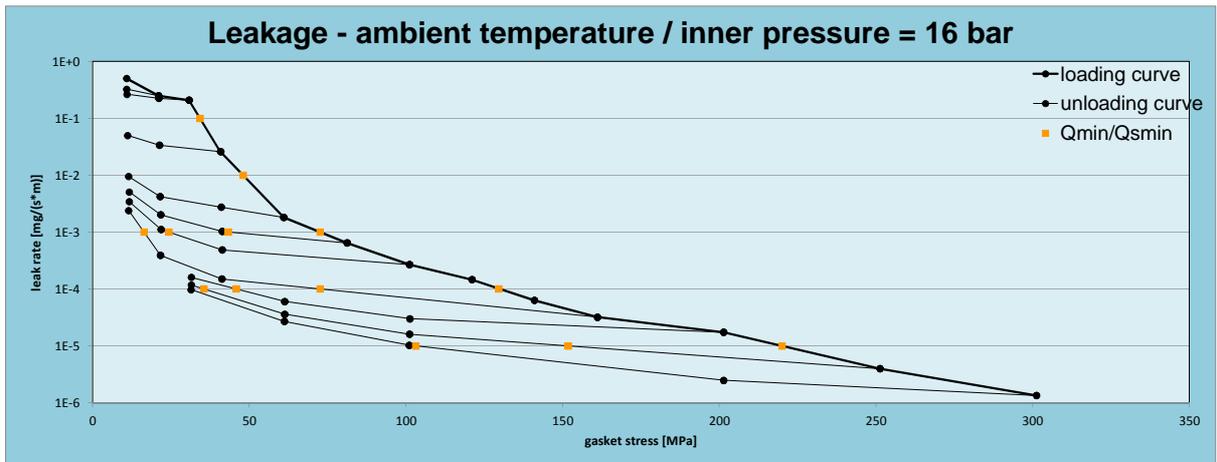
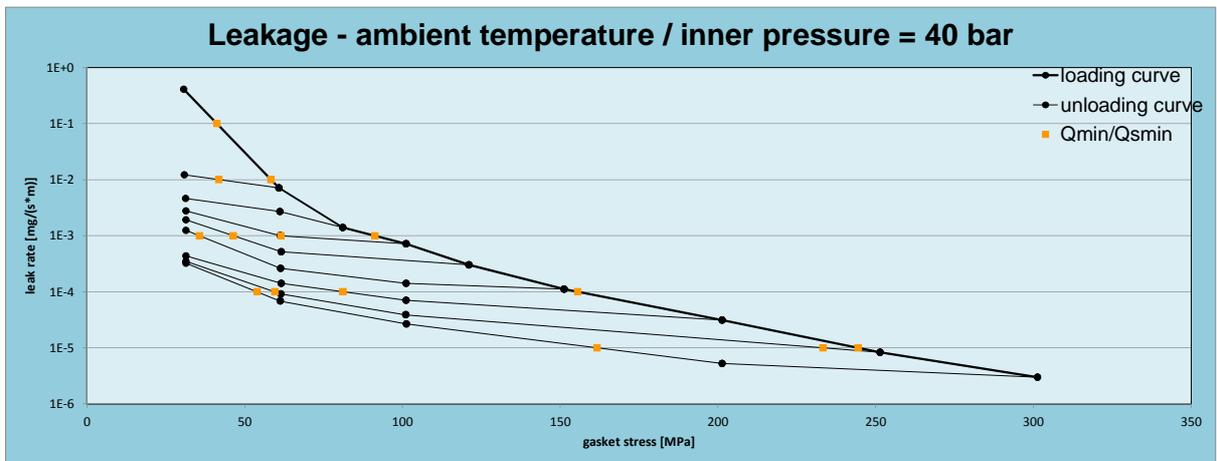


Company Address	IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany	According to DIN EN 13555 2014-07
Gasket Type	IDT – Spiraldichtung mit Graphit-Einlage; WS 1.4541/Graphit; IDT-Profil SD01	
Sealing element dimensions [mm]	61x75x3.5	

		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 16 bar										
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [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	$Q_A=200$ MPa	
10^{-0}						11	11				11	11
10^{-1}	34					11	11				11	11
10^{-2}	48					11	11				11	11
10^{-3}	73					43	24				16	11
10^{-4}	130										73	46
10^{-5}	220											
10^{-6}												
10^{-7}												
10^{-8}												

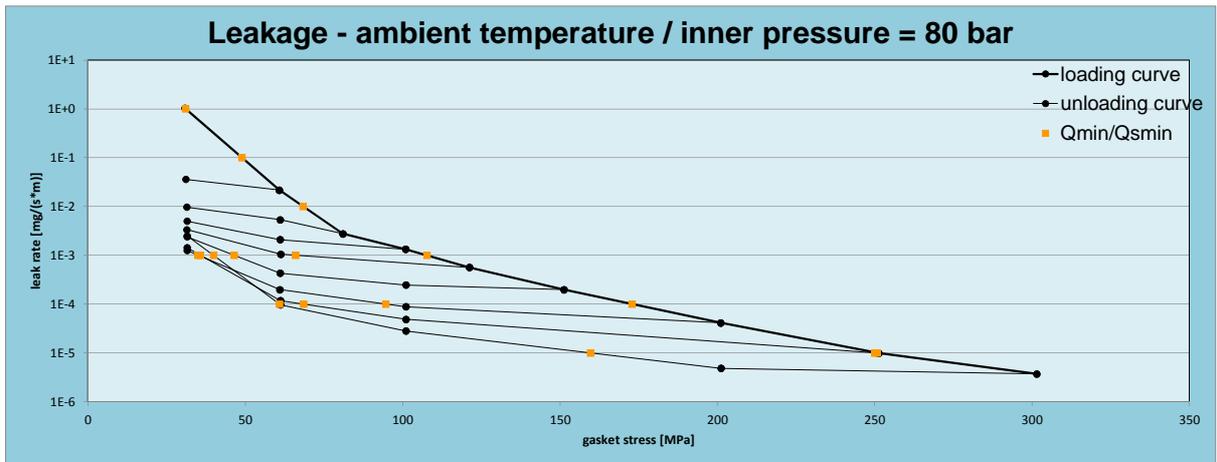


		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 40 bar										
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [MPa]										
		$Q_A=60$ MPa	$Q_A=80$ MPa	$Q_A=100$ MPa	$Q_A=120$ MPa	$Q_A=150$ MPa	$Q_A=200$ MPa	$Q_A=250$ MPa	$Q_A=300$ MPa			
10^{-0}		31		31	31	31	31	31	31	31		
10^{-1}	41	31		31	31	31	31	31	31	31		
10^{-2}	58	42		31	31	31	31	31	31	31		
10^{-3}	91			62	46	36	31	31	31			
10^{-4}	156						81	60	54			
10^{-5}	244							233	162			
10^{-6}												
10^{-7}												
10^{-8}												



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Gasket Type	IDT – Spiraldichtung mit Graphit-Einlage; WS 1.4541/Graphit; IDT-Profil SD01	
Sealing element dimensions [mm]	61x75x3.5	

		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 80 bar								
L [mg/(s·m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [MPa]								
		$Q_A=60$ MPa	$Q_A=80$ MPa	$Q_A=100$ MPa	$Q_A=120$ MPa	$Q_A=150$ MPa	$Q_A=200$ MPa	$Q_A=250$ MPa	$Q_A=300$ MPa	
10^{-0}	31				31	31	31	31	31	
10^{-1}	49				31	31	31	31	31	
10^{-2}	68				31	31	31	31	31	
10^{-3}	108				66	47	35	36	40	
10^{-4}	173						95	69	61	
10^{-5}	251							250	160	
10^{-6}										
10^{-7}										
10^{-8}										



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Sealing element dimensions [mm]	61x75x3.5	

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm										
Gasket stress	temperature 1 [25 °C]		temperature 2 [200 °C]		temperature 3 [400 °C]		P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]
	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]				
Stress level 1 [30 MPa]	0.96	0.007			0.79	0.023				
Stress level 2 [50 MPa]	1.00	0.005	0.92	0.016	0.88	0.024				
Stress level 3 [90 MPa]			0.95	0.017						
Stress level 4 [100 MPa]	1.00	0.003			1.00	0.006				
P _{QR} and Δe_{Gc} at maximal applicable gasket stress Q_{Smax}										
P_{QR} at Q_{Smax}	1.00	0.003	0.98	0.012	0.98	0.010				
Q_{Smax}	200 MPa		200 MPa		200 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [200 °C]		temperature 2 [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		3.460		3.505		3.500				
1		3.387		3.413		3.410				
20	1531	3.274	1554	3.249	2041	3.257				
30	1419	3.180	1435	2.913	1623	2.858				
40	1781	2.741	2233	2.647	2973	2.693				
50	2587	2.618	2808	2.526	3771	2.599				
60	2926	2.525	3711	2.446	5278	2.523				
80	3630	2.404	4676	2.333	5676	2.410				
100	4258	2.322	7007	2.263	8154	2.330				
120	7543	2.270	8226	2.205	7264	2.268				
140	7792	2.227	9372	2.158	11595	2.224				
160	8184	2.187	11682	2.125	8668	2.187				
180	10148	2.155	11581	2.097	9264	2.157				
200	11154	2.131	14354	2.074	14051	2.136				
220										
240										
260										
280										
300										
320										
340										
360										
380										
400										
420										
440										
460										
480										
500										
940										

