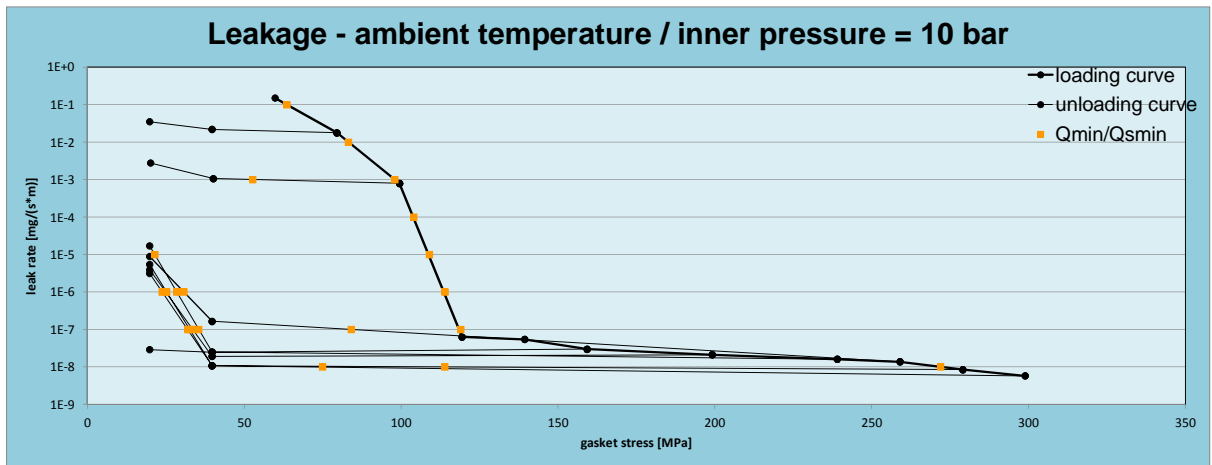
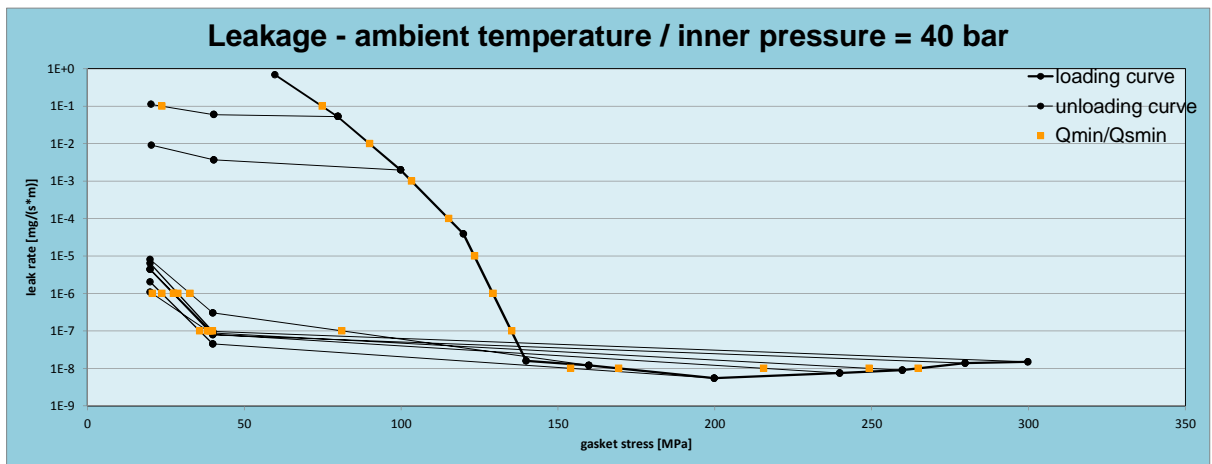


Company Address	IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany	According to DIN EN 13555 2014-07
Gasket Type	IDT - Kammprofilichtung mit Silber KD10-20-30 WS 1.4828/Silberauflage	
Sealing element dimensions [mm]	53x68x92x4.8	

		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]									
		$Q_A=80$ MPa	$Q_A=100$ MPa	$Q_A=120$ MPa	$Q_A=140$ MPa	$Q_A=160$ MPa	$Q_A=200$ MPa	$Q_A=240$ MPa	$Q_A=260$ MPa	$Q_A=280$ MPa	$Q_A=300$ MPa
10^{-0}			20				20	20	20	20	20
10^{-1}	64		20				20	20	20	20	20
10^{-2}	83		20				20	20	20	20	20
10^{-3}	98		53				20	20	20	20	20
10^{-4}	104						20	20	20	20	20
10^{-5}	109						20	21	20	20	20
10^{-6}	114						25	28	31	25	24
10^{-7}	119						34	36	84	33	32
10^{-8}	272									114	75

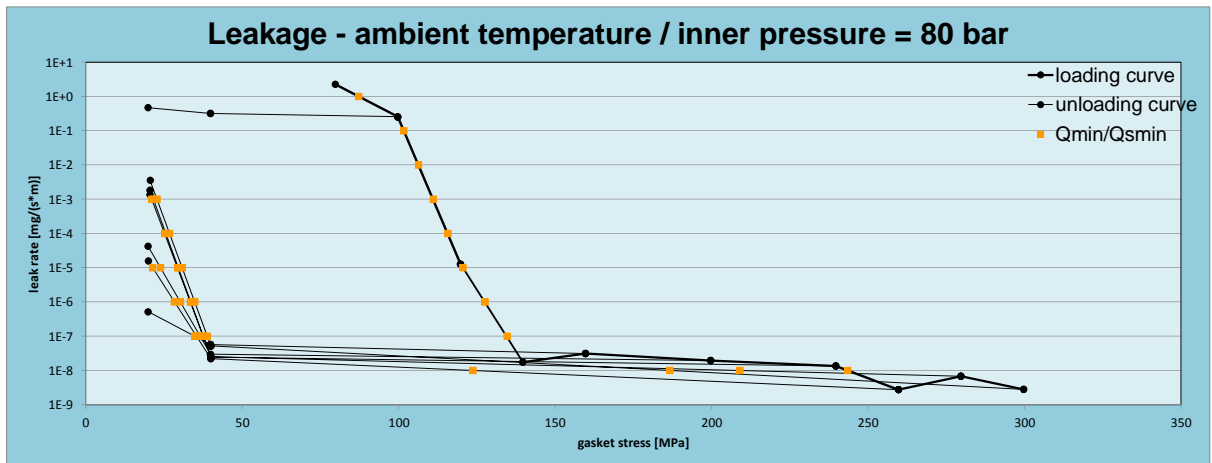


		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for $p = 40$ bar									
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [MPa]									
		$Q_A=80$ MPa	$Q_A=100$ MPa	$Q_A=120$ MPa	$Q_A=140$ MPa	$Q_A=160$ MPa	$Q_A=200$ MPa	$Q_A=240$ MPa	$Q_A=260$ MPa	$Q_A=280$ MPa	$Q_A=300$ MPa
10^{-0}		20				20	20	20	20	20	20
10^{-1}	75	24				20	20	20	20	20	20
10^{-2}	90					20	20	20	20	20	20
10^{-3}	103					20	20	20	20	20	20
10^{-4}	115					20	20	20	20	20	20
10^{-5}	123					20	20	20	20	20	20
10^{-6}	129					33	24	21	28	27	29
10^{-7}	135					81	36	38	39	39	40
10^{-8}	169						154	216	249		



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 - Kammprofilichtung mit Silber KD10-20-30 WS 1.4828/Silberauflage	
Sealing element dimensions [mm]	53x68x92x4.8	

		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]									
		$Q_A = 100$ MPa	$Q_A = 120$ MPa	$Q_A = 140$ MPa	$Q_A = 160$ MPa	$Q_A = 200$ MPa	$Q_A = 240$ MPa	$Q_A = 260$ MPa	$Q_A = 280$ MPa	$Q_A = 300$ MPa	
10^{-9}	87				20	20	20	20	20	20	
10^{-1}	102				20	20	20	20	20	20	
10^{-2}	106				20	20	20	20	20	20	
10^{-3}	111				20	20	22	20	21	23	
10^{-4}	116				20	20	26	20	25	27	
10^{-5}	121				20	24	30	21	29	31	
10^{-6}	128				20	30	34	28	33	35	
10^{-7}	135				35	37	38	35	38	39	
10^{-8}	244							124	209	187	



Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm										
Gasket stress	ambient temperature		temperature 1 [200 °C]		temperature 2 [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 [40 MPa]	0.98	0.007	0.57	0.058	0.33	0.088				
Stress level 2 [80 MPa]	0.98	0.010	0.63	0.095	0.41	0.151				
P_{QR} and Δe_{Gc} at maximal applicable gasket stress Q_{Smax}										
P_{QR} at Q_{Smax}	0.99	0.027	0.90	0.196	0.86	0.262				
Q_{Smax}	600 MPa		600 MPa		600 MPa					

Die E-Module sind messtechnisch nicht zu erfassen, bitte die E-Module des Grundkörpers (1.4828) verwenden.