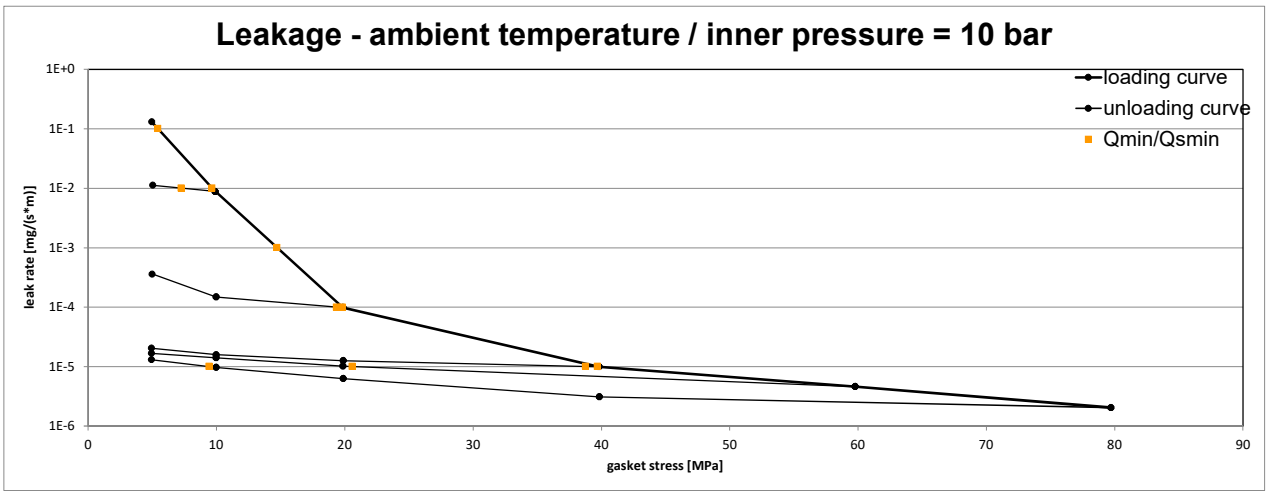
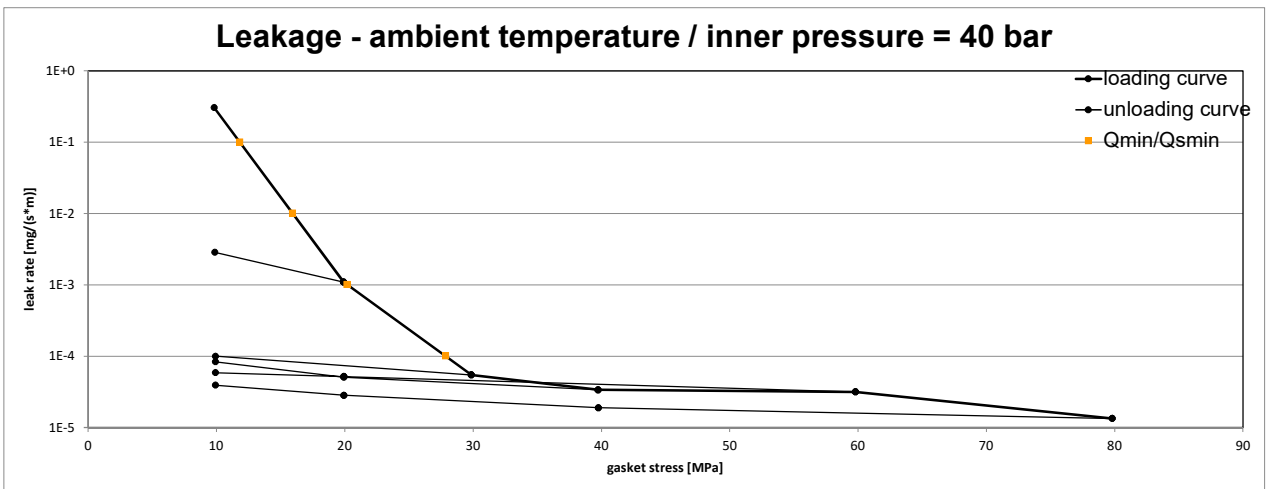


Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany	According to DIN EN 13555 2014-07
Gasket Type	KLINGER® top-chem2003	
Sealing element dimensions [mm]	92 x 49 x 2.0	

L [mg/(s*m)]	Q _{min/L} [MPa]	Q _{Smin/L} [MPa]										
		Q _A = 10 MPa	Q _A = 20 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa						
10 ⁰	5	5	5	5	5	5						
10 ⁻¹	5	5	5	5	5	5						
10 ⁻²	10	7	5	5	5	5						
10 ⁻³	15		5	5	5	5						
10 ⁻⁴	20		19	5	5	5						
10 ⁻⁵	40			39	21	9						
10 ⁻⁶												
10 ⁻⁷												
10 ⁻⁸												



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						
10 ⁰	10	10	10	10	10	10						
10 ⁻¹	12	10	10	10	10	10						
10 ⁻²	16	10	10	10	10	10						
10 ⁻³	20		10	10	10	10						
10 ⁻⁴	28		10	10	10	10						
10 ⁻⁵												
10 ⁻⁶												
10 ⁻⁷												
10 ⁻⁸												



Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 3 Creation date of this sheet: 2018-07-13

Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany	According to DIN EN 13555 2014-07
Gasket Type	KLINGER® top-chem2003	
Sealing element dimensions [mm]	92 x 49 x 2,0	

Relaxation ratio P _{QR} for stiffness C = 500 kN/mm										
Gasket stress	temperature 1 [25 °C]		temperature 2 [100 °C]		temperature 3 [150 °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 [10 MPa]	0.88	0.010	0.83	0.014	0.77	0.020				
Stress level 2 [20 MPa]	0.90	0.017	0.75	0.043						
P _{QR} and Δe _{Gc} at maximal applicable gasket stress Q _{Smax}										
P _{QR} at Q _{Smax}	0.79	0.141	0.60	0.102	0.76	0.040				
Q _{Smax}	80 MPa		30 MPa		20 MPa					

Sekant unloading modulus of the gasket E _G [MPa] and gasket thickness e _G [mm]										
Gasket stress [MPa]	temperature 1 [25 °C]		temperature 2 [100 °C]		temperature 3 [150 °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		2.000		2.000		2.000				
1		1.950		1.968		1.969				
20	1446	1.789	1245	1.586	1681	1.295				
30	2221	1.716	2322	1.230						
40	3653	1.635								
50	8090	1.541								
60	10462	1.448								
80	6523	1.306								

