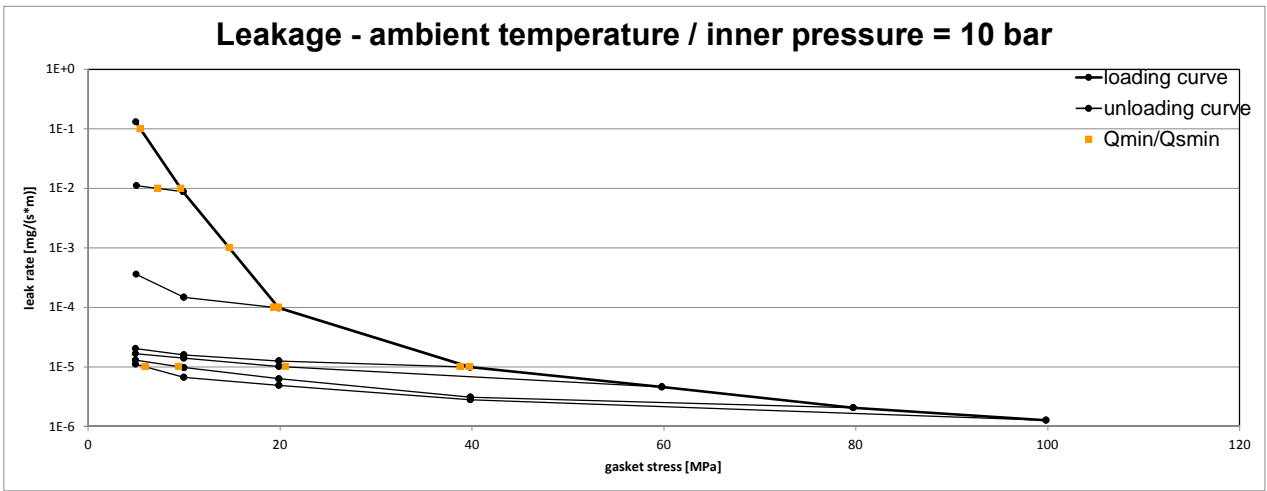
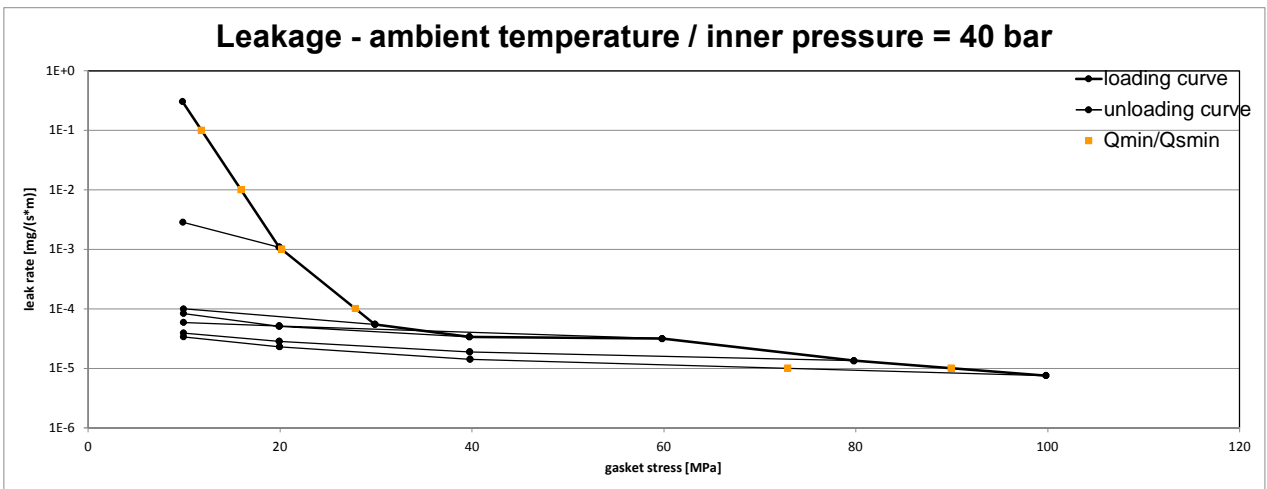


Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany	According to DIN EN 13555 2014-07
Gasket Type	KLINGER® top-chem2003	
Sealing element dimensions [mm]	92*49*2	

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 = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa				
10 ⁰	5	5	5	5	5	5	5				
10 ⁻¹	5	5	5	5	5	5	5				
10 ⁻²	10	7	5	5	5	5	5				
10 ⁻³	15		5	5	5	5	5				
10 ⁻⁴	20		19	5	5	5	5				
10 ⁻⁵	40			39	21	9	6				



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 = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa				
10 ⁰	10	10	10	10	10	10	10				
10 ⁻¹	12	10	10	10	10	10	10				
10 ⁻²	16	10	10	10	10	10	10				
10 ⁻³	20		10	10	10	10	10				
10 ⁻⁴	28		10	10	10	10	10				
10 ⁻⁵	90						73				



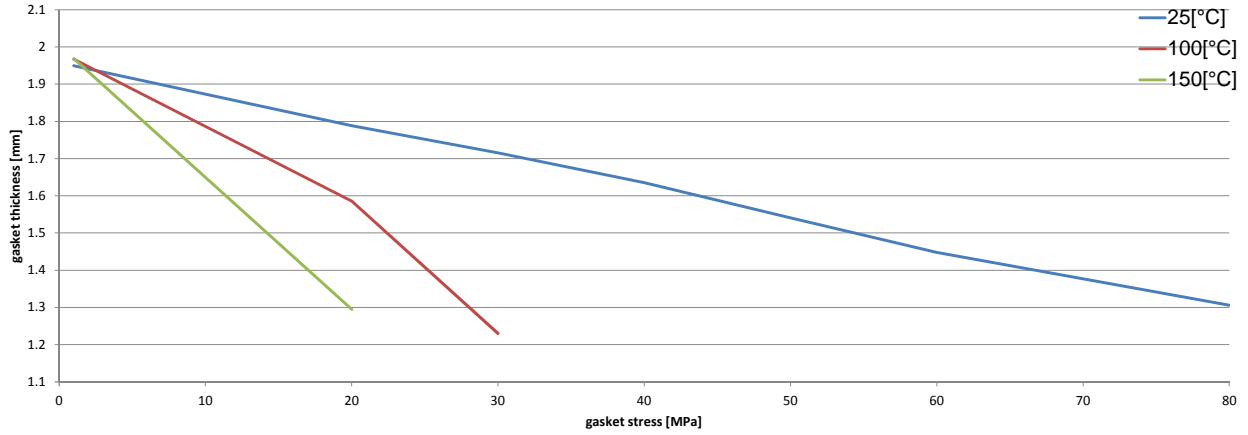
Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 2 Creation date of this sheet: 2016-01-21

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*49*2	

Relaxation ratio P_{QR} for stiffness $C = 500 \text{ kN/mm}$						
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]
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]
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				

Gasket thickness e_G



Note: the content of darkened cells was not determined respectively is unnecessary | Rev - No: 2 | Creation date of this sheet: 2016-01-21