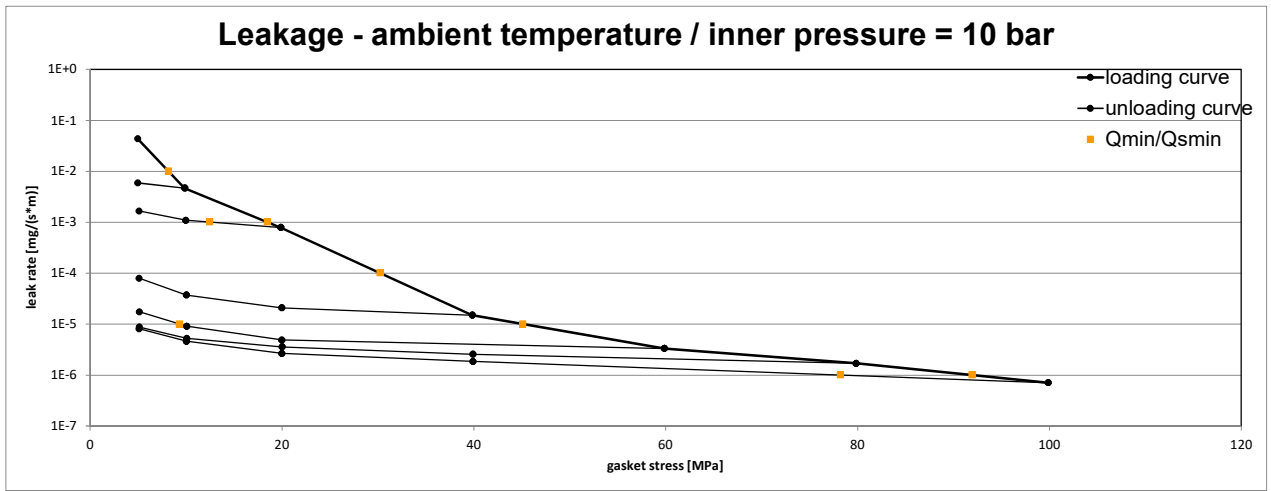
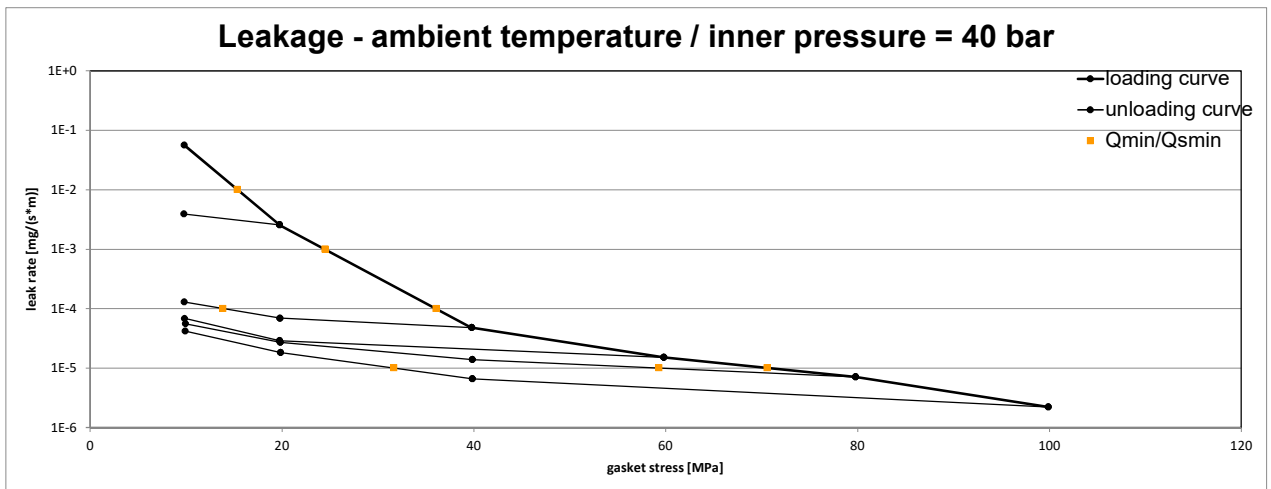


Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany	According to DIN EN 13555 2014-07
Gasket Type	top-chem2005	
Sealing element dimensions [mm]	92 x 49 x 2	

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	8	5	5	5	5	5	5				
10 ⁻³	18		12	5	5	5	5				
10 ⁻⁴	30			5	5	5	5				
10 ⁻⁵	45				9	5	5				
10 ⁻⁶	92						78				
10 ⁻⁷											
10 ⁻⁸											



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 = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa				
10 ⁰	10	10	10	10	10	10				
10 ⁻¹	10	10	10	10	10	10				
10 ⁻²	15	10	10	10	10	10				
10 ⁻³	24		10	10	10	10				
10 ⁻⁴	36		14	10	10	10				
10 ⁻⁵	71				59	32				
10 ⁻⁶										
10 ⁻⁷										
10 ⁻⁸										



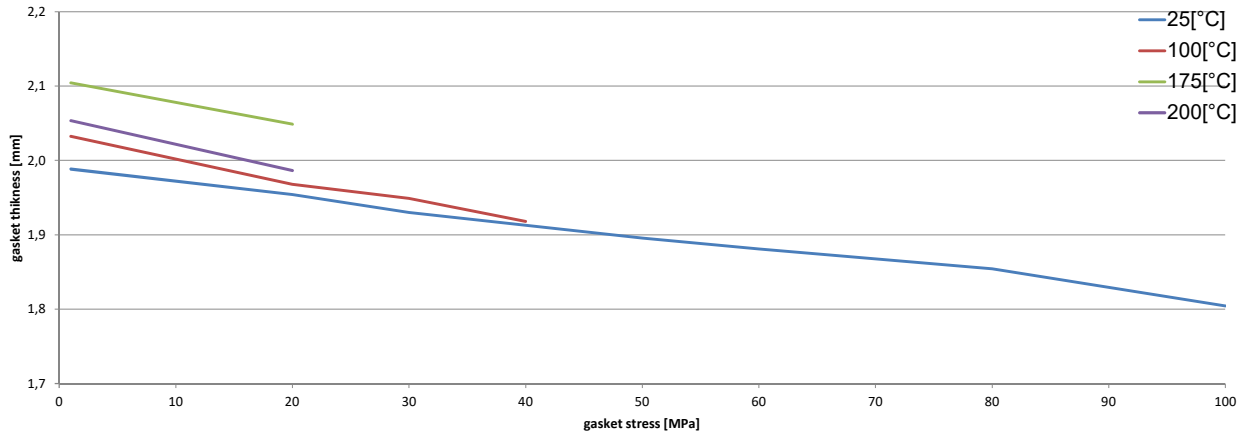
Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 1 Creation date of this sheet: 2017-06-26

Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany	According to DIN EN 13555 2014-07
Gasket Type	top-chem2005	
Sealing element dimensions [mm]	92 x 49 x 2	

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm										
Gasket stress	temperature 1 [23 °C]		temperature 2 [100 °C]		temperature 4 [200 °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]					0,94	0,005				
Stress level 2 [20 MPa]	0,95	0,008	0,93	0,012						
Stress level 2 [30 MPa]	0,97	0,009	0,90	0,026						
P_{QR} and Δe_{Gc} at maximal applicable gasket stress Q_{Smax}										
P_{QR} at Q_{Smax}	0,77	0,193	0,91	0,030	0,88	0,020				
Q_{Smax}	100 MPa		40 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 4 [200 °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		1,989		2,033		2,054				
20	3283	1,954	2705	1,968	2797	1,987				
30	5965	1,930	4215	1,949						
40	6893	1,913	3334	1,918						
50	6811	1,896								
60	8953	1,881								
80	10903	1,854								
100	12455	1,804								

Gasket thickness e_G



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