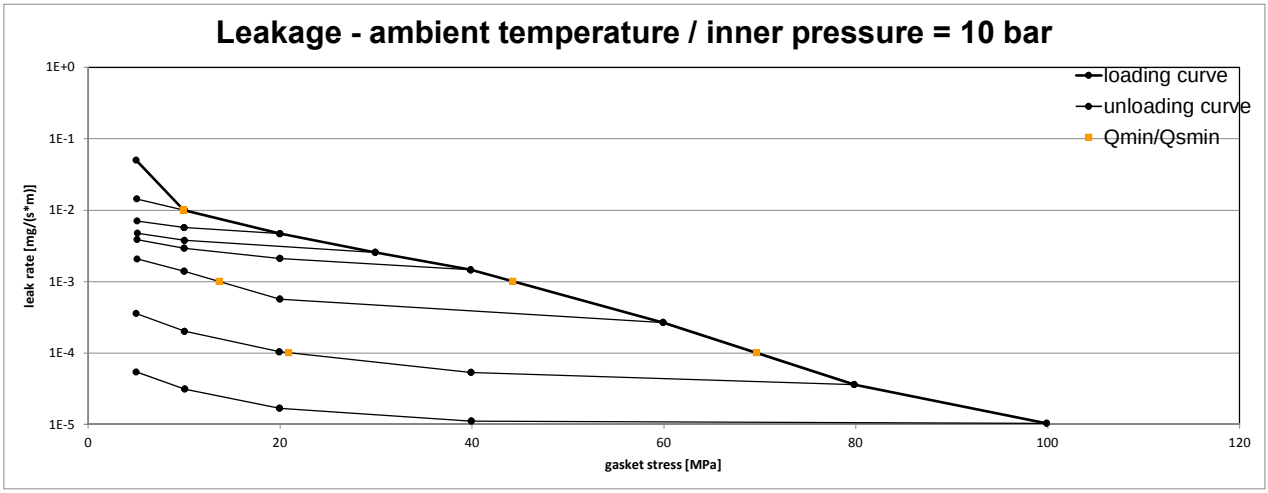
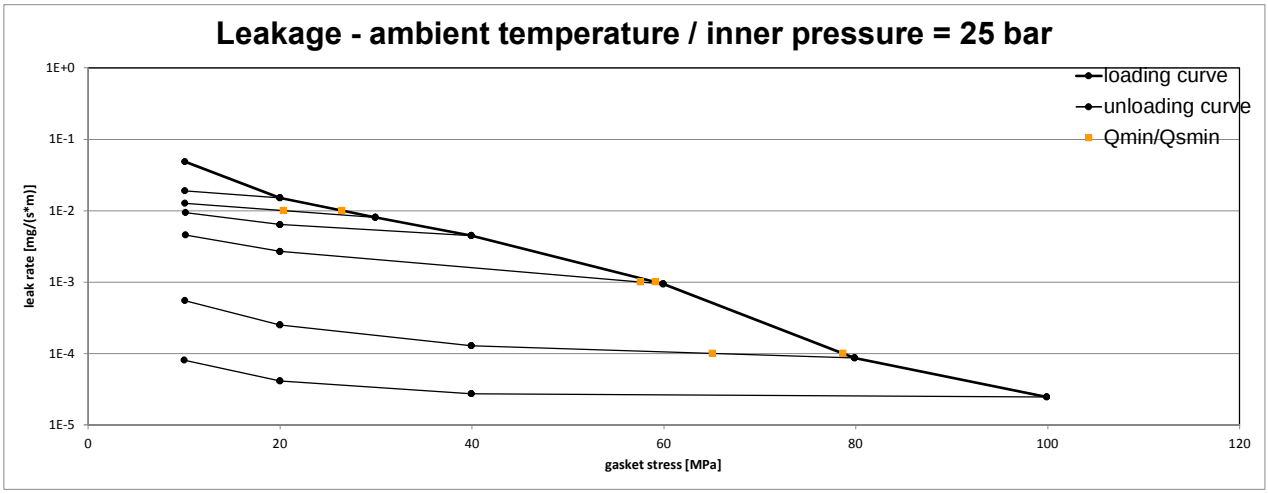
Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany	According to **DIN EN 13555 2014-07**
Gasket Type	KLINGER® top-chem2000	
Sealing element dimensions [mm]	92*49*3	

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= 30 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	10	5	5	5	5	5				
10^{-3}	44					14	5				
10^{-4}	70						21				



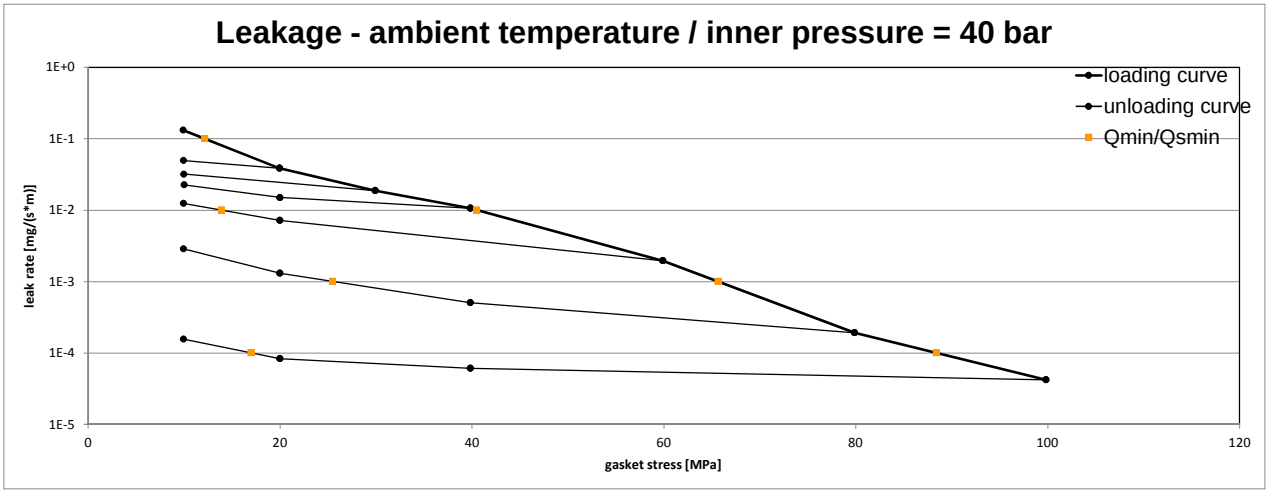
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 25 bar $Q_{Smin/L}$ [MPa]									
		Q_A= 20 MPa	Q_A= 30 MPa	Q_A= 40 MPa	Q_A= 60 MPa	Q_A= 80 MPa	Q_A= 100 MPa				
10^{-0}	10	10	10	10	10	10					
10^{-1}	10	10	10	10	10	10					
10^{-2}	26		20	10	10	10					
10^{-3}	59				58	10					
10^{-4}	79					65					



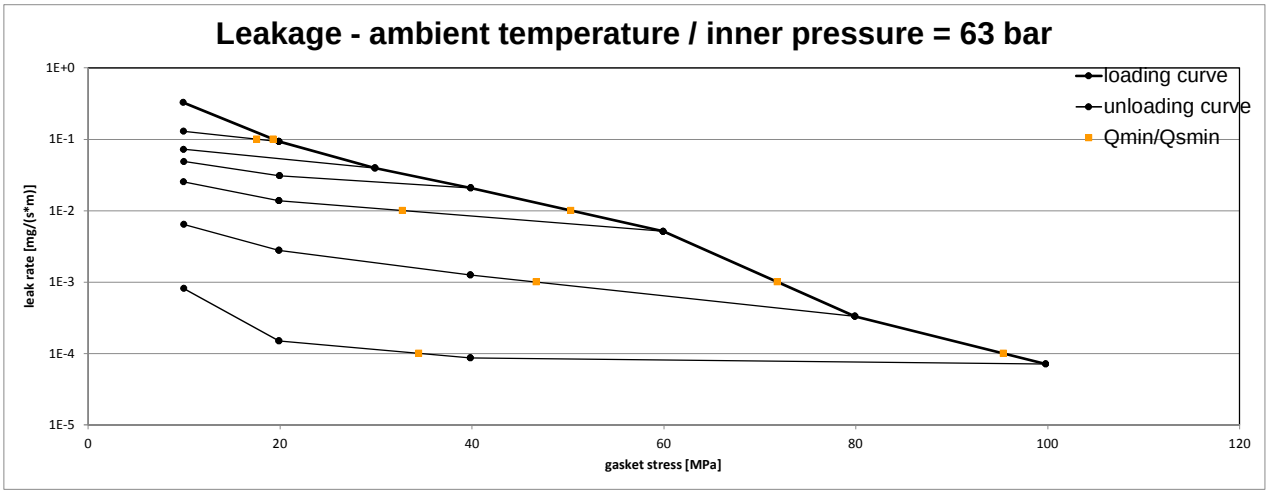
Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: **1**	Creation date of this sheet:	**2016-01-14**

Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany	According to **DIN EN 13555 2014-07**
Gasket Type	KLINGER® top-chem2000	
Sealing element dimensions [mm]	92*49*3	

L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $\mathbf{Q_{min/L}}$ (at assembly), $\mathbf{Q_{Smin/L}}$ (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}	41				14	10	10				
10^{-3}	66					26	10				
10^{-4}	88						17				



L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $\mathbf{Q_{min/L}}$ (at assembly), $\mathbf{Q_{Smin/L}}$ (after off-loading) for p = 63 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}	19	18	10	10	10	10	10				
10^{-2}	50				33	10	10				
10^{-3}	72					47	10				
10^{-4}	95						34				



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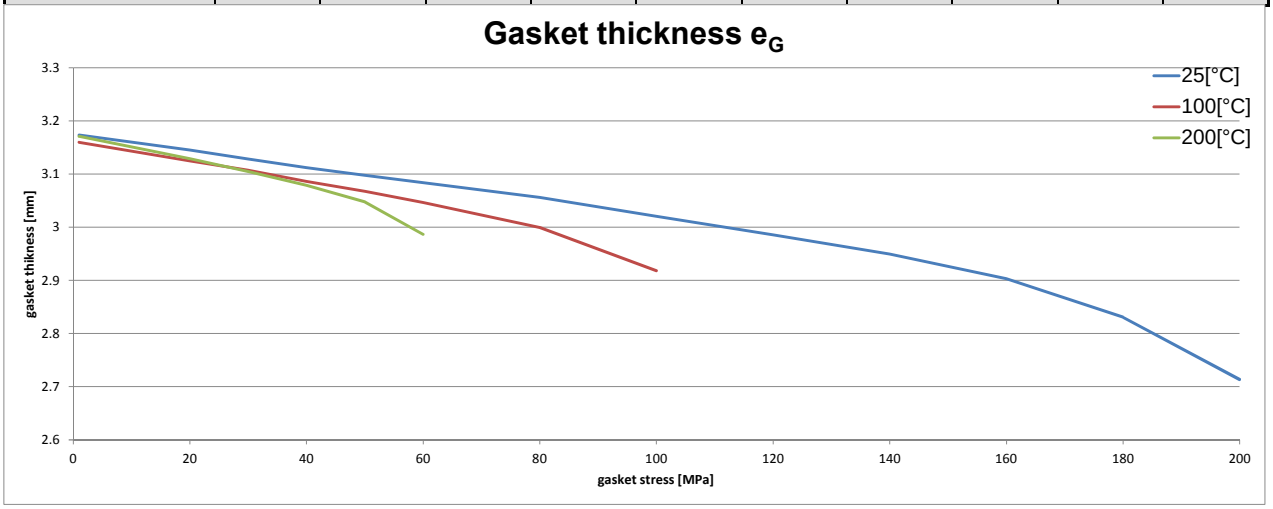
Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany	According to **DIN EN 13555 2014-07**
Gasket Type	KLINGER® top-chem2000	
Sealing element dimensions [mm]	92*49*3	

Relaxation ratio P_{QR} for stiffness **C** = 500 kN/mm										
Gasket stress	temperature 1 [25 °C]		temperature 2 [100 °C]		temperature 3 [200 °C]					
	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]				
Stress level 1 [20 MPa]	0,98	0,003	0,93	0,012	0,91	0,016				
Stress level 2 [50 MPa]	0,98	0,008	0,94	0,027	0,88	0,050				
P_{QR} and Δe_{Gc} at maximal applicable gasket stress Q_{smax}										
P_{QR} at Q_{Smax}	0,90	0,176	0,89	0,097	0,84	0,081				
Q_{Smax}	200 MPa		100 MPa		60 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 [200 °C]					
	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]				
0		3,000		3,000		3,000				
1		3,174		3,160		3,171				
20	8284	3,145	3416	3,125	2994	3,129				
30	5270	3,128	4362	3,107	3663	3,105				
40	5101	3,112	4292	3,086	4275	3,079				
50	5985	3,097	5005	3,068	4301	3,048				
60	6610	3,084	5853	3,046	4448	2,987				
80	8198	3,056	6254	2,999						
100	8124	3,021	7519	2,918						
120	9750	2,986								
140	10079	2,950								
160	10293	2,903								
180	14285	2,831								
200	17774	2,714								



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