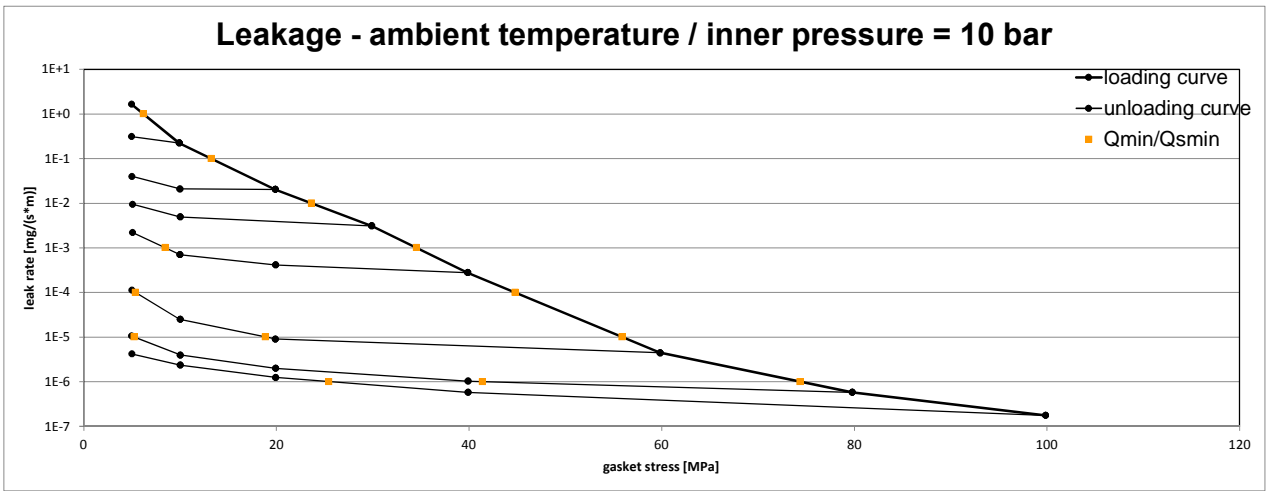
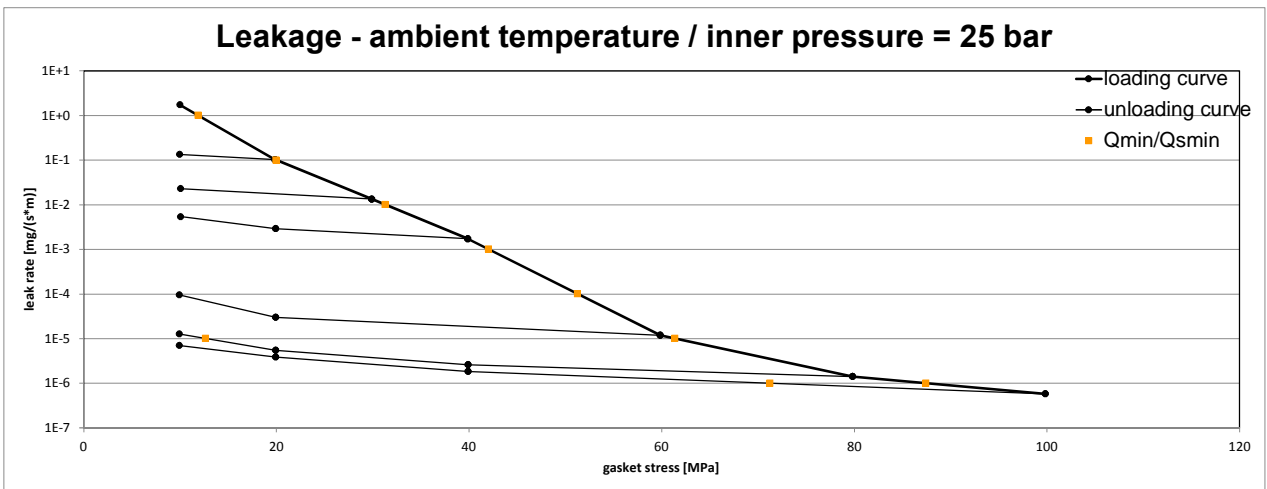


Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany	According to DIN EN 13555 2014-07
Gasket Type	KLINGERSIL® C4400	
Sealing element dimensions [mm]	92*49*3	

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	6	5	5	5	5	5	5	5	
10 ⁻¹	13		5	5	5	5	5	5	
10 ⁻²	24			5	5	5	5	5	
10 ⁻³	35				8	5	5	5	
10 ⁻⁴	45					5	5	5	
10 ⁻⁵	56					19	5	5	
10 ⁻⁶	74						41	25	



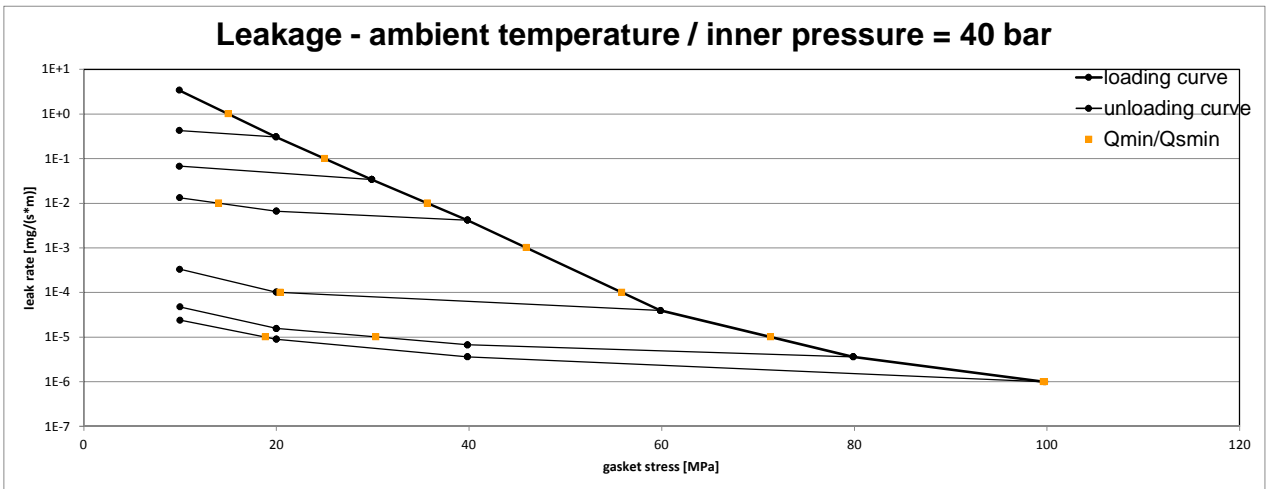
L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 25 bar					
		Q _{Smin/L} [MPa]					
		Q _A = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa
10 ⁰	12	10	10	10	10	10	10
10 ⁻¹	20		10	10	10	10	10
10 ⁻²	31			10	10	10	10
10 ⁻³	42				10	10	10
10 ⁻⁴	51				10	10	10
10 ⁻⁵	61					13	10
10 ⁻⁶	87						71



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	KLINGERSIL® C4400	
Sealing element dimensions [mm]	92*49*3	

L [mg/(s*m)]	Q _{minL} [MPa]	Minimum stress to seal Q _{minL} (at assembly), Q _{SminL} (after off-loading) for p = 40 bar									
		Q _{SminL} [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	15	10	10	10	10	10	10				
10 ⁻¹	25		10	10	10	10	10				
10 ⁻²	36			14	10	10	10				
10 ⁻³	46				10	10	10				
10 ⁻⁴	56				20	10	10				
10 ⁻⁵	71					30	19				
10 ⁻⁶	100						100				



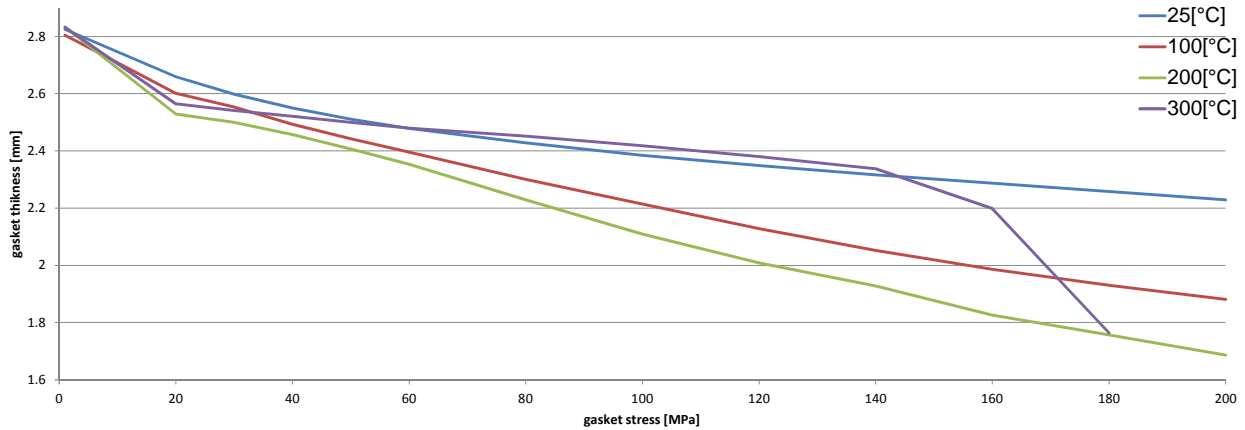
Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 1 Creation date of this sheet: 2016-01-14

Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany	According to DIN EN 13555 2014-07
Gasket Type	KLINGERSIL® C4400	
Sealing element dimensions [mm]	92*49*3	

Relaxation ratio P_{QR} for stiffness $C = 500 \text{ kN/mm}$										
Gasket stress	temperature 1 [25 °C]		temperature 2 [100 °C]		temperature 3 [200 °C]		temperature 4 [300 °C]			
	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]		
Stress level 1 [30 MPa]	0.92	0.021	0.80	0.050	0.68	0.081	0.31	0.174		
Stress level 2 [50 MPa]	0.94	0.027	0.84	0.067	0.75	0.107	0.45	0.231		
P _{QR} and Δe_{Gc} at maximal applicable gasket stress Q_{Gmax}										
P _{QR} at Q _{Gmax}	0.97	0.050	0.80	0.336	0.66	0.571	0.51	0.748		
Q _{Gmax}	200 MPa		200 MPa		200 MPa		180 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]		temperature 4 [300 °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]		
0		3.000		3.000		3.000		3.000		
1		2.825		2.805		2.833		2.832		
20	1512	2.659	1328	2.601	1732	2.529	8474	2.564		
30	1864	2.598	1673	2.553	1947	2.500	7542	2.541		
40	2152	2.550	2056	2.493	2015	2.457	6242	2.521		
50	2851	2.511	2431	2.443	2322	2.407	5523	2.500		
60	3301	2.479	2714	2.395	2608	2.353	4976	2.479		
80	4107	2.428	3324	2.301	3146	2.229	6025	2.451		
100	4790	2.385	3888	2.214	3515	2.109	5815	2.418		
120	5514	2.349	4301	2.128	3759	2.008	5897	2.380		
140	5958	2.316	4740	2.052	4092	1.929	6781	2.338		
160	6466	2.287	4977	1.986	4134	1.827	6634	2.198		
180	6452	2.258	5164	1.930	4287	1.757	8780	1.764		
200	6577	2.229	5470	1.881	4432	1.687				

Gasket thickness e_G



Note: the content of darkened cells was not determined respectively is unnecessary

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Creation date of this sheet:

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