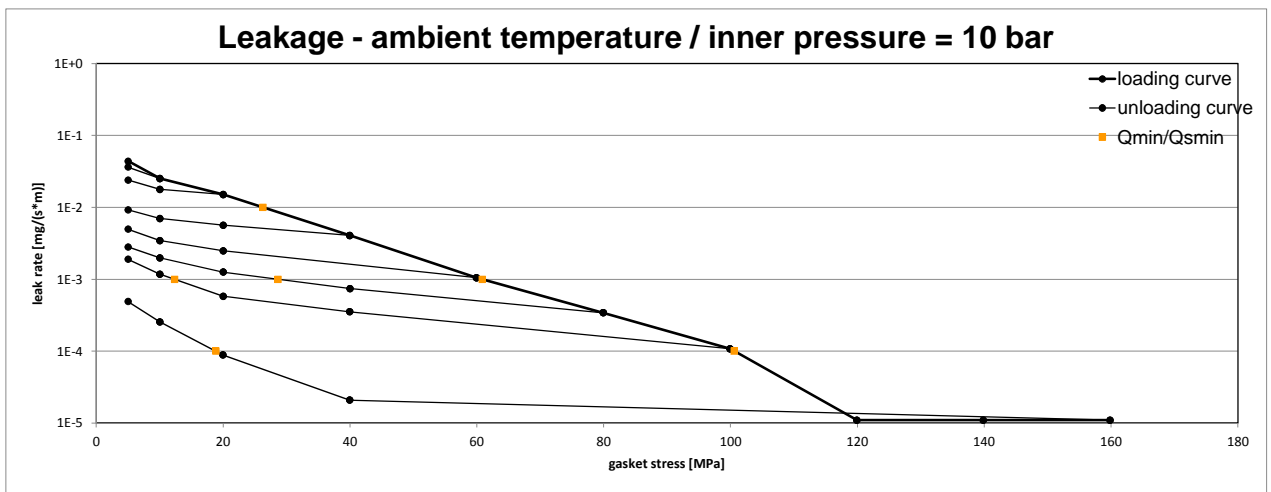
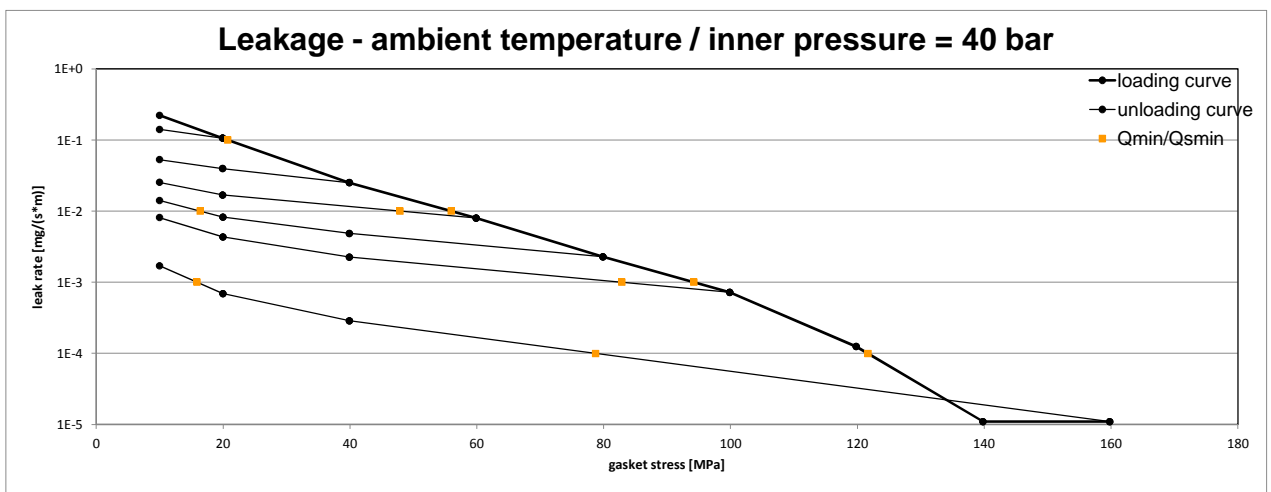


Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany
Gasket Type	KLINGER® Graphite Laminate PDM200B
Sealing element dimensions [mm]	92 x 49 x 2

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	Q _A = 120 MPa	Q _A = 140 MPa	Q _A = 160 MPa	
10 ⁰	5	5	5	5	5	5	5			5	
10 ⁻¹	5	5	5	5	5	5	5			5	
10 ⁻²	26			5	5	5	5			5	
10 ⁻³	61					29	12			5	
10 ⁻⁴	101									19	
10 ⁻⁵											
10 ⁻⁶											
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	Q _A = 120 MPa	Q _A = 140 MPa	Q _A = 160 MPa	
10 ⁰	10	10	10	10	10	10			10	
10 ⁻¹	21		10	10	10	10			10	
10 ⁻²	56			48	16	10			10	
10 ⁻³	94					83			16	
10 ⁻⁴	122								79	
10 ⁻⁵										
10 ⁻⁶										
10 ⁻⁷										
10 ⁻⁸										

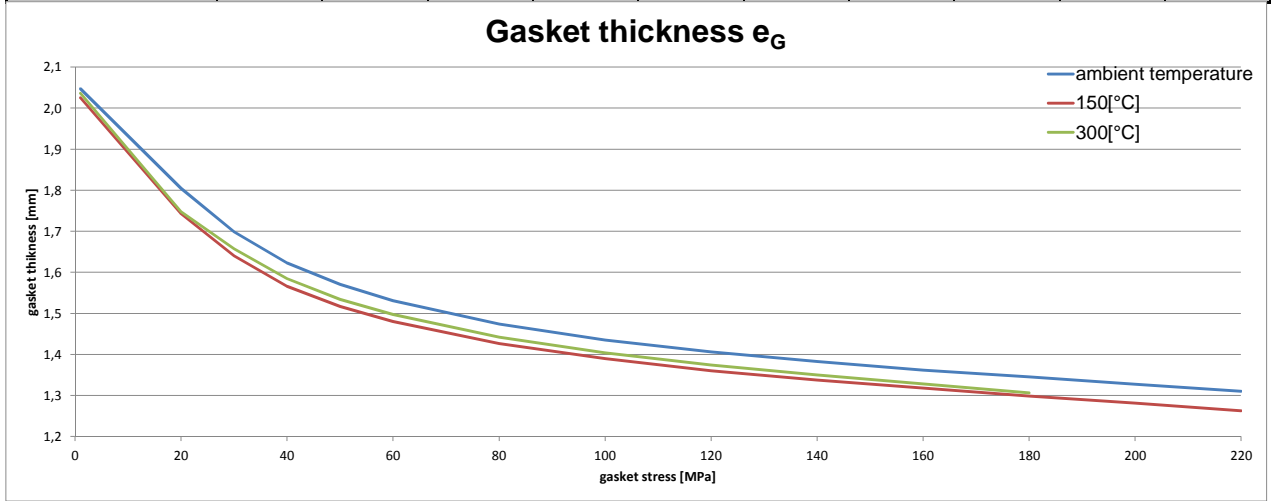


Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany
Gasket Type	KLINGER® Graphite Laminate PDM200B
Sealing element dimensions [mm]	92 x 49 x 2

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm				
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [300 °C]	
Stress level 1 [30 MPa]	0,98	0,89	0,89	
Stress level 2 [50 MPa]	0,99	0,94	0,92	
PQR at Q_{Smax}	1,00 at 220 MPa	0,98 at 220 MPa	0,97 at 180 MPa	

Maximal applicable gasket stress Q_{Smax}				
Q_{Smax} [MPa]	Q_{Smax} [MPa] – temperature 1 [150 °C]	Q_{Smax} [MPa] – temperature 2 [300 °C]		
ambient temperature	220	180		

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]						
Gasket stress [MPa]	ambient temperature		temperature 1 [150 °C]		temperature 2 [300 °C]	
	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]
0						
1		2,047		2,026		2,036
20	531	1,804	541	1,743	608	1,748
30	765	1,698	774	1,640	800	1,657
40	1113	1,623	1170	1,566	1066	1,585
50	1481	1,570	1498	1,517	1367	1,534
60	1923	1,531	1892	1,480	1746	1,497
80	2687	1,474	2810	1,426	2422	1,442
100	3325	1,435	3655	1,389	3356	1,404
120	4100	1,406	4370	1,360	3983	1,374
140	4808	1,383	4732	1,338	4679	1,350
160	5336	1,362	5440	1,318	5244	1,328
180	6000	1,345	5866	1,299	5705	1,307
200	6269	1,328	6138	1,282		
220	6823	1,310	7143	1,263		



Note: the content of darkened cells was not determined respectively is unnecessary | Rev - No: 1 | Creation date of this sheet: 28.03.2012