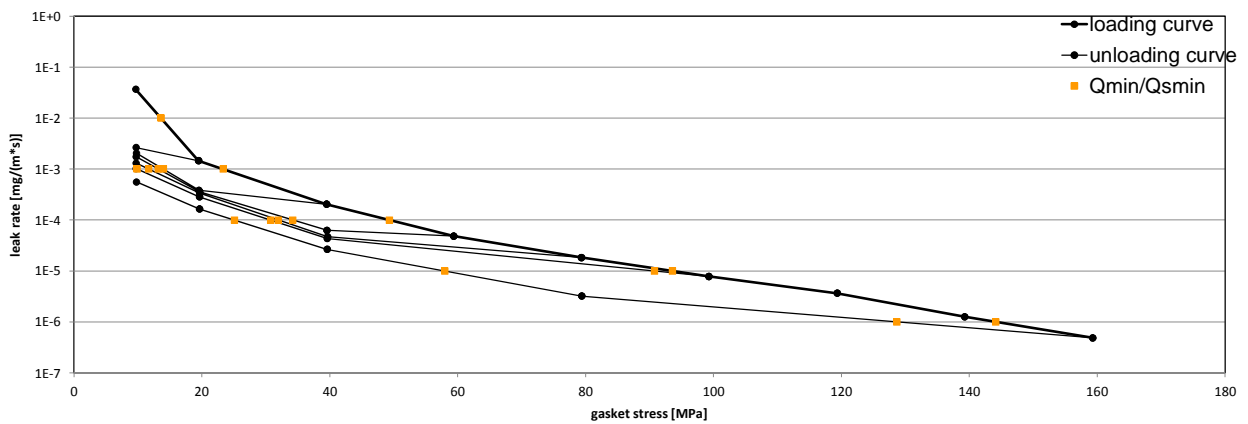


Company Address	Möller Metalldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen, Germany
Gasket Type	MMK(Z) (kammprofile gasket with graphit layers)
Sealing element dimensions [mm]	69 x 53 x 4.8

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	10	10	10	10	10	10			10		
10 ⁻²	14	10	10	10	10	10			10		
10 ⁻³	23		14	13	12	10			10		
10 ⁻⁴	49			34	32	31			25		
10 ⁻⁵	94					91			58		
10 ⁻⁶	144								129		
10 ⁻⁷											
10 ⁻⁸											

Leakage - ambient temperature / inner pressure = 40 bar



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

Rev - No: 2

Creation date of this sheet:

21.02.2012

page 1 of 2



Center of Sealing Technologies, Bürgerkamp 3, 48565 Steinfurt, Germany

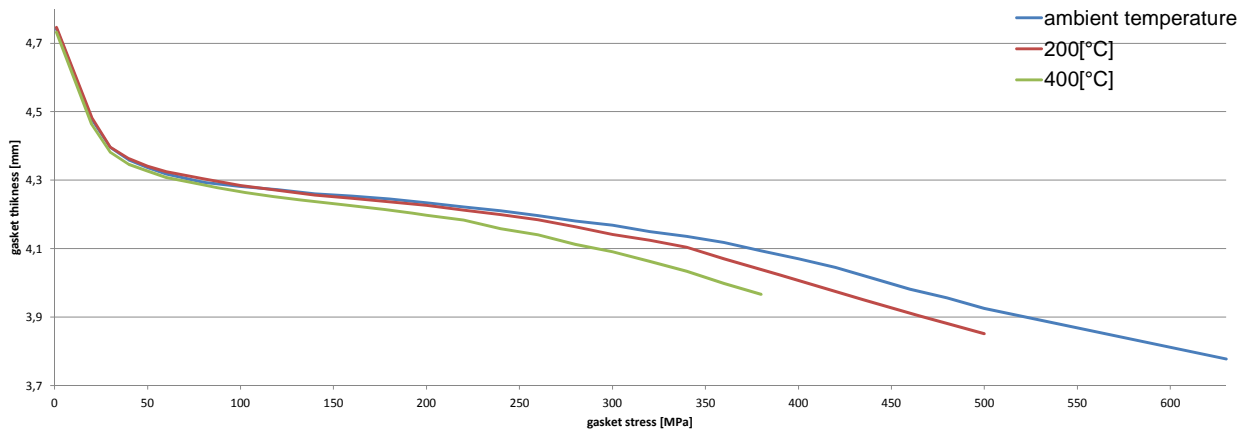
Company Address	Möller Metalldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen, Germany
Gasket Type	MMK(Z) (kammprofile gasket with graphit layers)
Sealing element dimensions [mm]	69 x 53 x 4.8

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm				
Gasket stress [MPa]	ambient temperature	temperature 1 [200 °C]	temperature 2 [400 °C]	
Stress level 1 [30 MPa]	0,97	0,93	0,86	
Stress level 2 [100 MPa]	1,00	0,98	0,97	
PQR at Q_{Smax}	0,99 at 635 MPa	0,97 at 500 MPa	0,94 at 380 MPa	

Maximal applicable gasket stress Q_{Smax}			
Q_{Smax} [MPa] ambient temperature	Q_{Smax} [MPa] – temperature 1 [200 °C]	Q_{Smax} [MPa] – temperature 2 [400 °C]	
635	500	380	

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]						
Gasket stress [MPa]	ambient temperature		temperature 1 [200 °C]		temperature 2 [400 °C]	
	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]
0		4,777		4,842		4,780
1		4,742		4,747		4,732
20	3631	4,478	4645	4,483	2512	4,463
30	4172	4,395	5919	4,396	2730	4,382
40	4755	4,359	8265	4,363	6418	4,346
50	6590	4,337	8662	4,340	5641	4,326
60	6277	4,318	9828	4,325	3553	4,308
80	8653	4,294	14377	4,304	4971	4,286
100	12550	4,282	12292	4,284	6451	4,267
120	15579	4,272	14632	4,271	5455	4,250
140	14939	4,260	15405	4,256	6385	4,237
160	16568	4,254	19105	4,247	7506	4,225
180	17829	4,245	23583	4,236	8043	4,213
200	18146	4,234	28529	4,227	12248	4,198
220	16769	4,221	26828	4,213	15068	4,184
240	17881	4,210	28672	4,199	9232	4,158
260	20141	4,196	30292	4,184	9643	4,140
280	20508	4,180	26251	4,164	11474	4,113
300	24255	4,169	24856	4,141	11927	4,091
320	25840	4,150	31620	4,124	11985	4,062
340	28825	4,135	38047	4,104	11702	4,034
360	33804	4,118	27603	4,070	10180	3,998
380	26288	4,094	29706	4,040	11244	3,967
400	26666	4,070	34211	4,007		
420	28375	4,045	32223	3,974		
440	24859	4,013	38812	3,943		
460	24317	3,982	32337	3,911		
480	26869	3,957	35484	3,881		
500	25899	3,926	38016	3,852		
630	26631	3,778				

Gasket thickness e_G



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

Rev - No: 2

Creation date of this sheet:

21.02.2012