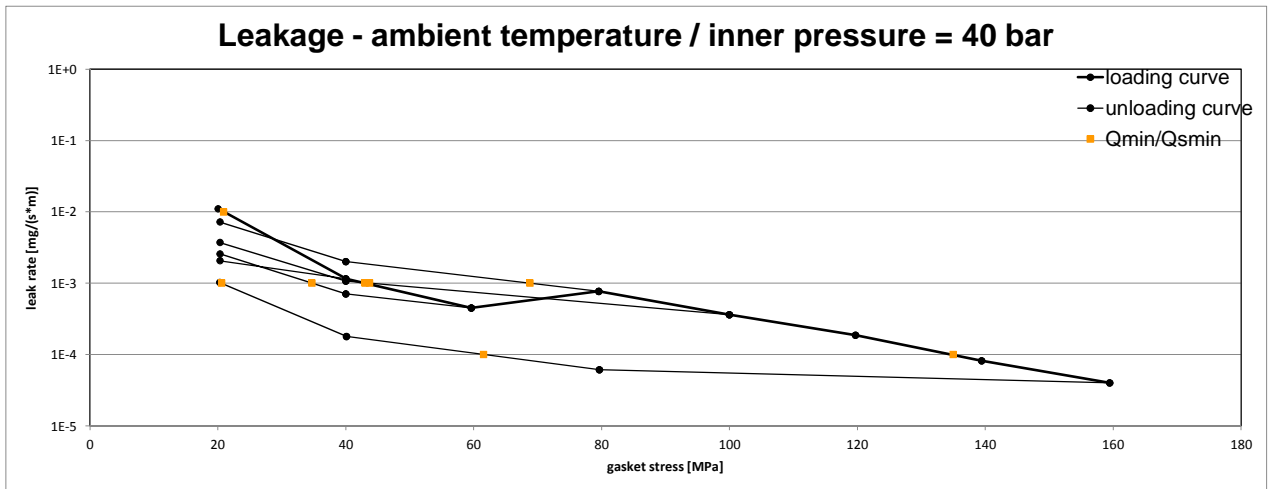


Company Address	Möller Metalldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen, Germany
Gasket Type	MMSIA graphite spiral wound gasket
Sealing element dimensions [mm]	68 x 56 x 5

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 = 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	20	20	20	20	20			20			
10 ⁻¹	20	20	20	20	20			20			
10 ⁻²	21	20	20	20	20			20			
10 ⁻³	43		35	69	44			21			
10 ⁻⁴	135							62			
10 ⁻⁵											
10 ⁻⁶											
10 ⁻⁷											
10 ⁻⁸											



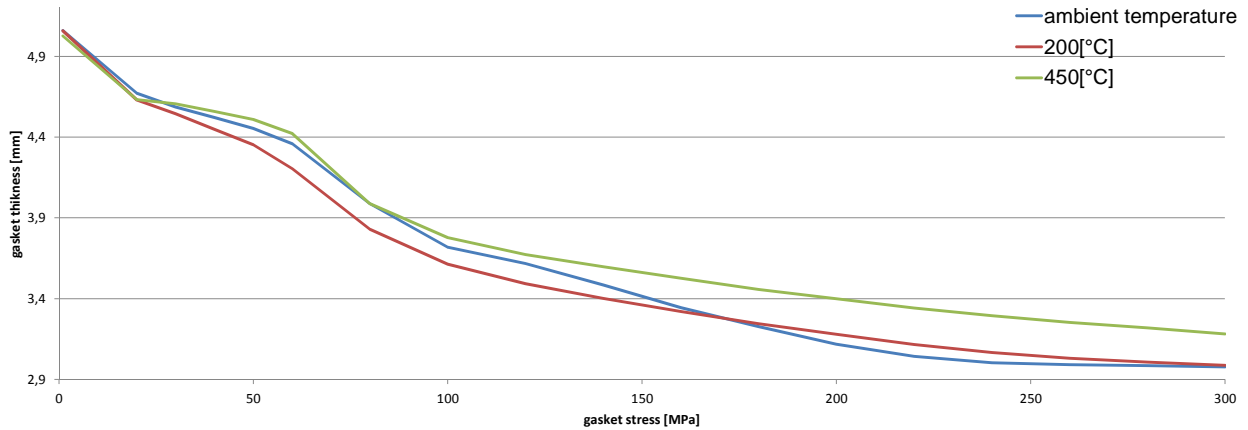
Company Address	Möller Metalldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen, Germany
Gasket Type	MMSIA graphite spiral wound gasket
Sealing element dimensions [mm]	68 x 56 x 5

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm				
Gasket stress [MPa]	ambient temperature	temperature 1 [200 °C]	temperature 2 [450 °C]	
Stress level 1 [100 MPa]	0,97	0,85	0,75	
Stress level 2 [200 MPa]	0,99	0,95	0,91	
PQR at Q_{Smax}	1,00 at 300 MPa	1,00 at 300 MPa	0,98 at 300 MPa	

Maximal applicable gasket stress Q_{Smax}			
Q_{Smax} [MPa] ambient temperature	Q_{Smax} [MPa] – temperature 1 [200 °C]	Q_{Smax} [MPa] – temperature 2 [450 °C]	
300	300	300	

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 [450 °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		5,091		5,124		5,069				
1		5,061		5,058		5,026				
20	1422	4,672	1871	4,629	2395	4,632				
30	2784	4,586	2720	4,544	5065	4,606				
40	3485	4,521	2770	4,447	4387	4,559				
50	3007	4,453	3341	4,352	5539	4,510				
60	3823	4,359	3579	4,203	4664	4,421				
80	3651	3,988	3533	3,830	4510	3,988				
100	3245	3,718	4233	3,613	5190	3,778				
120	4222	3,617	5894	3,493	6353	3,673				
140	5016	3,485	5644	3,401	9650	3,597				
160	5576	3,344	7585	3,320	10907	3,527				
180	6549	3,228	8710	3,245	11486	3,457				
200	7288	3,119	9763	3,180	13191	3,401				
220	10104	3,042	11732	3,117	13073	3,343				
240	9856	3,003	11547	3,068	13415	3,294				
260	11961	2,992	13842	3,032	14408	3,253				
280	13876	2,986	18180	3,008	17472	3,219				
300	14811	2,977	21266	2,988	16404	3,181				

Gasket thickness e_G



Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 1 Creation date of this sheet: 21.02.2012