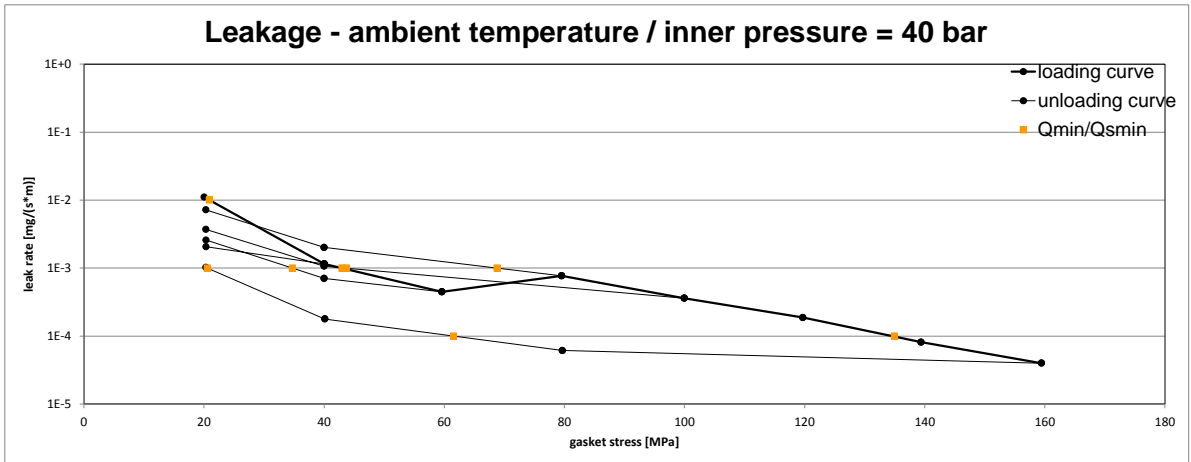
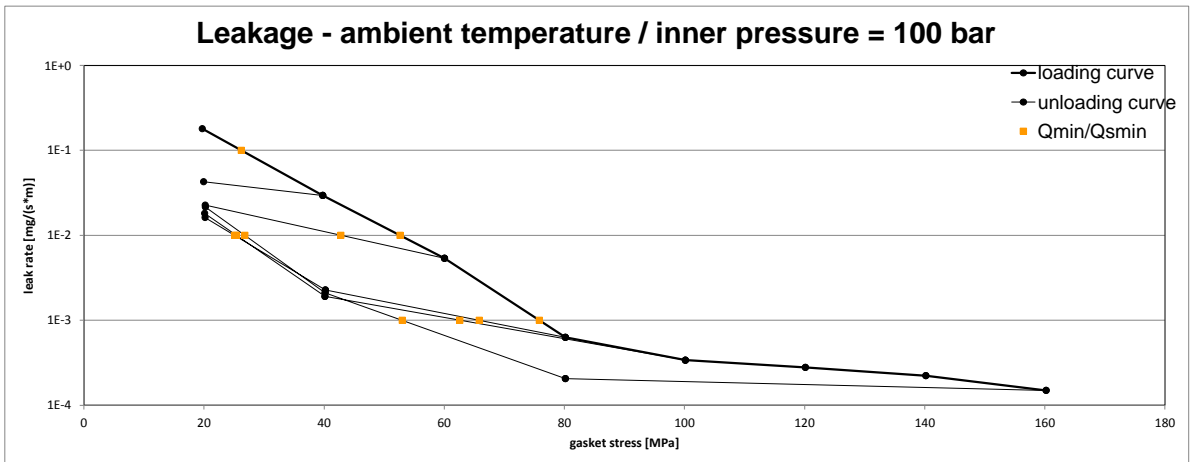


Company Address	Möller Metall dichtungen GmbH, Brunnenweg 10, 39444 Hecklingen, Germany	According to DIN EN 13555 2005-2
Gasket Type	MMSIA graphite spiral wound gasket	
Sealing element dimensions [mm]	68 x 56 x 5	

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										



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 = 100 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	26	20	20	20	20			20		
10 ⁻²	53		43	25	25			27		
10 ⁻³	76			66	63			53		
10 ⁻⁴										
10 ⁻⁵										
10 ⁻⁶										
10 ⁻⁷										
10 ⁻⁸										

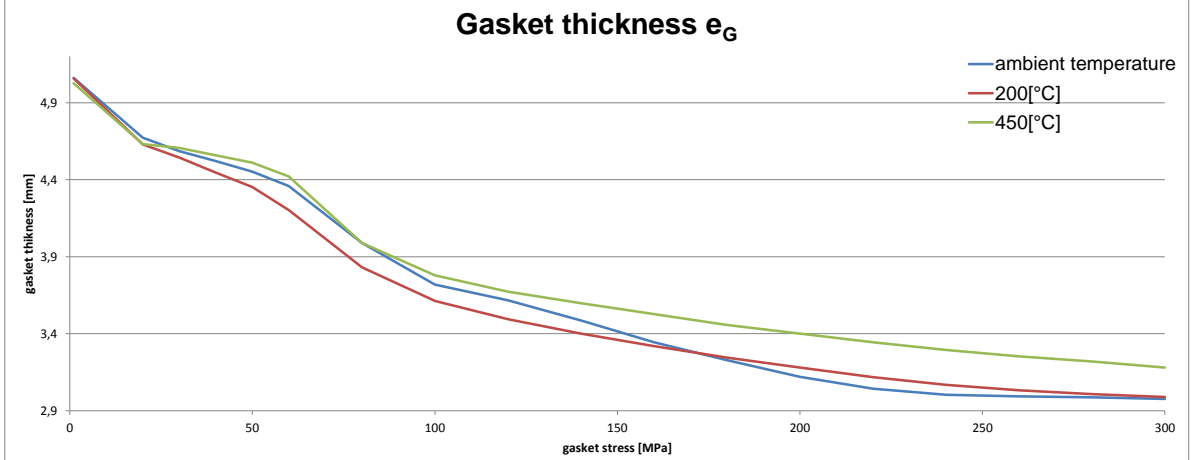


Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 2 Creation date of this sheet: 2023-09-05

Company Address	Möller Metalldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen, Germany	According to DIN EN 13555 2005-2
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	ambient temperature		temperature 1 [200 °C]		temperature 2 [450 °C]		P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]
	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]				
Stress level 1 [100 MPa]	0.97	0.007	0.85	0.035	0.75	0.058				
Stress level 2 [200 MPa]	0.99	0.005	0.95	0.026	0.91	0.042				
P_{QR} and Δe_{Gc} at maximal applicable gasket stress Q_{Smax}										
P_{QR} at Q_{Smax}	1.00	0.000	1.00	0.000	0.98	0.014				
Q_{Smax}	300 MPa		300 MPa		300 MPa					

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]	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						
320												
340												
360												
380												
400												
420												
440												
460												
480												
500												
940												



Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 2 Creation date of this sheet: 2023-09-05