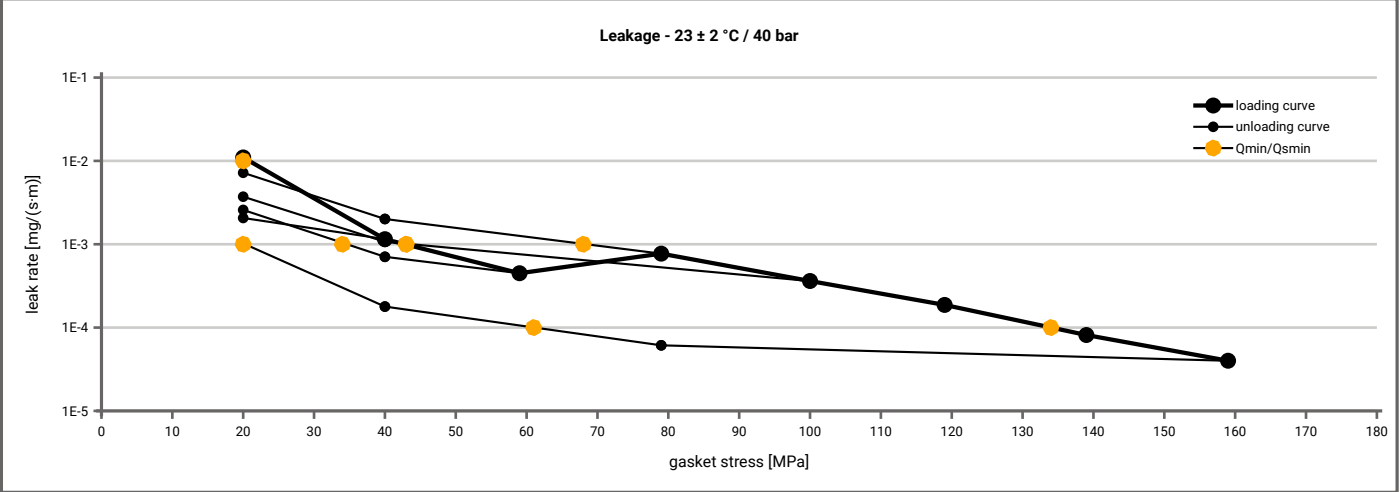


Manufacturer address	Möller Metalldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen, DE	According to DIN EN 13555 2005-2
Product name	MMSIA graphite spiral wound gasket	
Product dimensions	68 x 56 x 5 mm (DIN EN 1514-2 2014-8)	

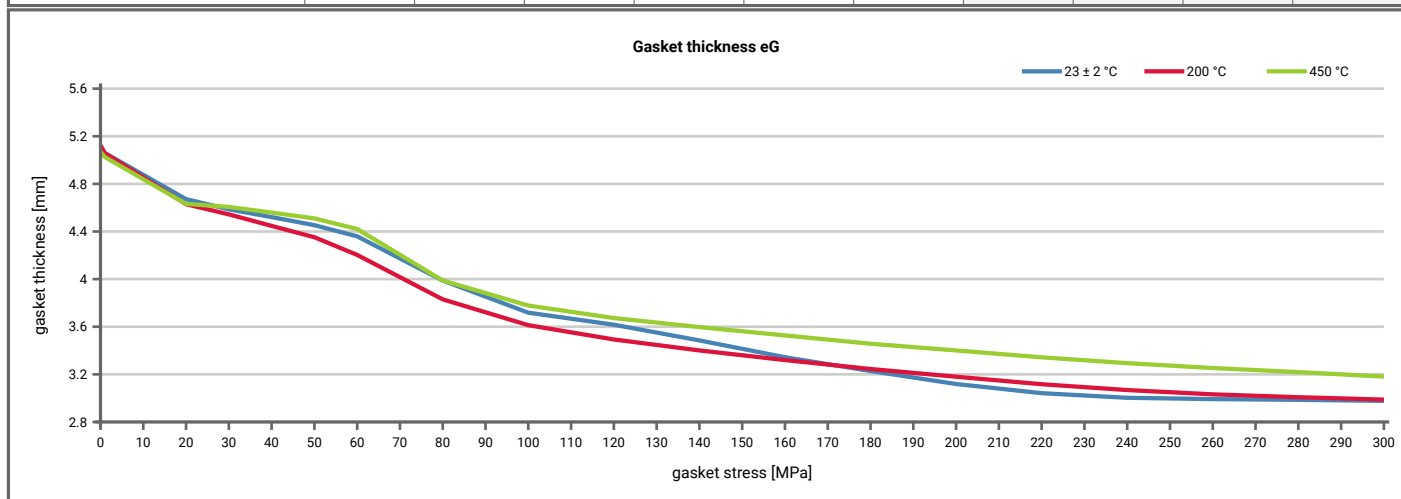
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)									
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]							
		$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 139$ [MPa]	$Q_A = 159$ [MPa]
1E-0	20		20	20	20	20			20
1E-1	20		20	20	20	20			20
1E-2	21		20	20	20	20			20
1E-3	43			35	69	44			21
1E-4	135								62
1E-5									
1E-6									
1E-7									
1E-8									



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Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [200 °C]		Temperature 2 [450 °C]					
	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]
Stress level 1 [100 MPa]	0.97	7	0.85	35	0.75	58				
Stress level 2 [200 MPa]	0.99	5	0.95	26	0.91	42				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	1.00	0	1.00	0	0.98	14				
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]	23 ± 2 °C		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	0	5.091	0	5.124	0	5.069				
1	0	5.060	0	5.058	0	5.026				
20	1422	4.672	1872	4.629	2395	4.632				
30	2784	4.586	2720	4.544	5065	4.606				
40	3486	4.521	2770	4.447	4387	4.559				
50	3007	4.453	3341	4.352	5539	4.510				
60	3823	4.359	3580	4.203	4664	4.421				
80	3652	3.988	3534	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	9651	3.597				
160	5577	3.344	7585	3.320	10907	3.527				
180	6549	3.228	8710	3.245	11487	3.457				
200	7288	3.119	9763	3.180	13191	3.401				
220	10104	3.042	11733	3.117	13073	3.343				
240	9857	3.003	11547	3.068	13415	3.294				
260	11961	2.992	13842	3.032	14409	3.253				
280	13876	2.986	18181	3.008	17472	3.219				
300	14811	2.977	21267	2.988	16404	3.181				



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2012-02-21
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