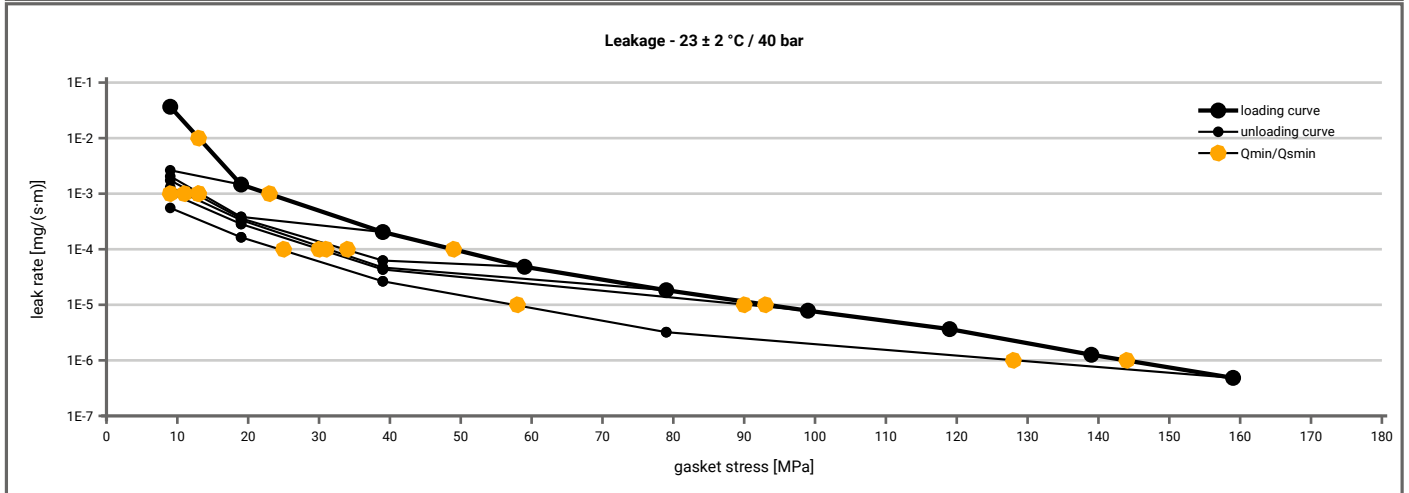


<b>Manufacturer address</b>	Möller Metalldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen, DE	According to <b>DIN EN 13555</b> <b>2014-7</b>
<b>Product name</b>	MMK(Z) (kammprofile gasket with graphite layers)	
<b>Product dimensions</b>	69 x 53 x 4.8 mm (DIN EN 1514-6 2004-3)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ( $T = 23 \pm 2$ °C)										
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		$Q_A = 9.6$ [MPa]	$Q_A = 19$ [MPa]	$Q_A = 39$ [MPa]	$Q_A = 59$ [MPa]	$Q_A = 79$ [MPa]	$Q_A = 99$ [MPa]	$Q_A = 119$ [MPa]	$Q_A = 139$ [MPa]	$Q_A = 159$ [MPa]
1E-0	10		10	10	10	10	10			10
1E-1	10		10	10	10	10	10			10
1E-2	14		10	10	10	10	10			10
1E-3	23			14	13	12	10			10
1E-4	49				34	32	31			25
1E-5	94						91			58
1E-6	144									129
1E-7										
1E-8										



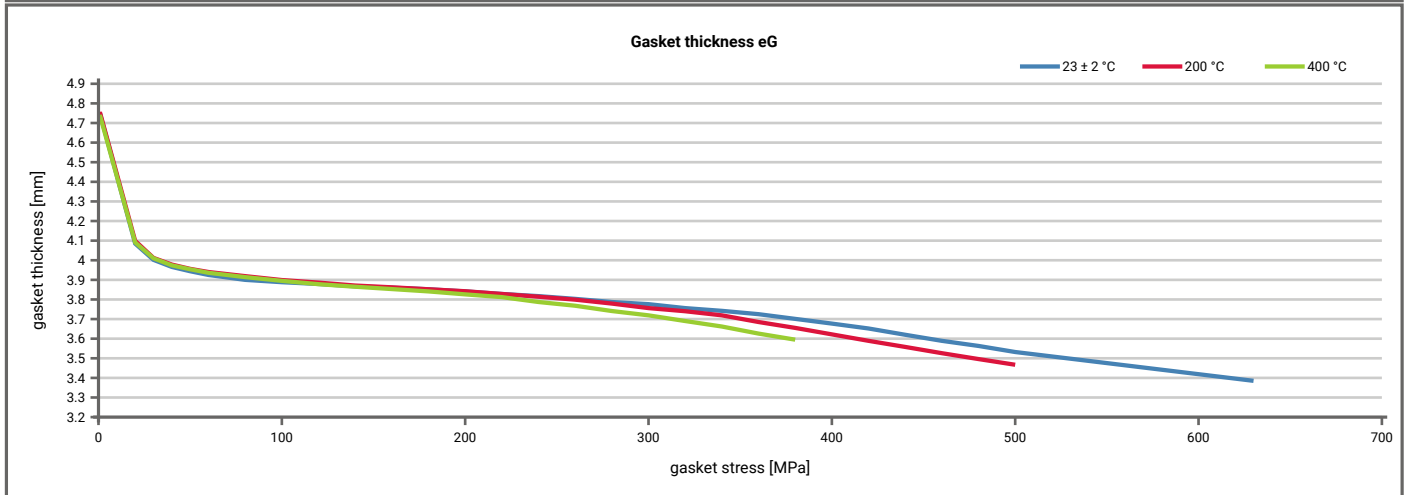
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Relaxation ratio $P_{QR}$ for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [200 °C]		Temperature 2 [400 °C]		$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]
	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]				
Stress level 1 [30 MPa]	0.97	3	0.93	7	0.86	13				
Stress level 2 [100 MPa]	1.00	0	0.98	6	0.97	9				
$P_{QR}$ and $\Delta e_{Gc}$ at maximum gasket stress to be applied $Q_{smax}$										
$P_{QR}$ at $Q_{smax}$	0.99	19	0.97	54	0.94	76				
$Q_{smax}$	635 MPa		500 MPa		380 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 [400 °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	4.742	0	4.747	0	4.732				
1	0	4.742	0	4.747	0	4.732				
20	3631	4.085	4011	4.099	4854	4.091				
30	4173	4.002	5003	4.012	6481	4.010				
40	4755	3.966	6927	3.978	9854	3.974				
50	6591	3.944	7219	3.956	9308	3.954				
60	6278	3.925	8159	3.940	7828	3.936				
80	8653	3.900	11870	3.919	11196	3.914				
100	12551	3.888	10098	3.899	11523	3.895				
120	15579	3.879	11979	3.886	10451	3.878				
140	14939	3.867	12565	3.871	13728	3.865				
160	16568	3.860	15545	3.862	17745	3.853				
180	17829	3.852	19136	3.852	20245	3.841				
200	18146	3.841	23095	3.842	21326	3.826				
220	16769	3.828	21637	3.828	26196	3.812				
240	17881	3.817	23040	3.814	19090	3.787				
260	20142	3.803	24247	3.799	20264	3.768				
280	20509	3.787	20899	3.779	19527	3.741				
300	24255	3.776	19671	3.756	24006	3.719				
320	25840	3.756	24913	3.740	24034	3.690				
340	28825	3.742	29813	3.719	24385	3.662				
360	33804	3.725	21430	3.685	21776	3.626				
380	26288	3.701	22874	3.655	23455	3.595				
400	26666	3.677	26110	3.622						
420	28376	3.652	24369	3.589						
440	24859	3.620	29093	3.558						
460	24318	3.589	24020	3.526						
480	26869	3.563	26136	3.496						
500	25899	3.532	27776	3.467						
630	26631	3.385								

Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 3	Creation date of this sheet: 2018-06-08
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