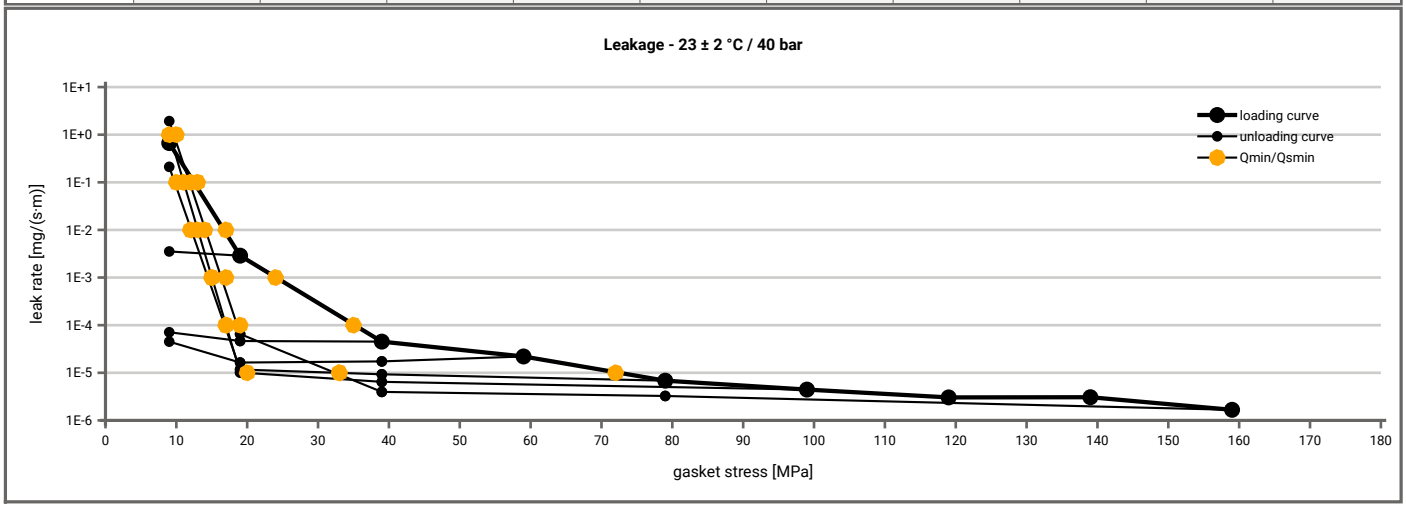
Manufacturer address	Möller Metalldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen, DE	According to **DIN EN 13555 2005-2**
Product name	MMKZ1P (kammprofile gasket with PTFE layers)	
Product dimensions	69 x 53 x 5 mm (DIN EN 1514-6 2004-3)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 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+1	10		10	10	10	10	10			10
1E-0	10		10	10	10	10	10			10
1E-1	13		10	10	10	10	12			13
1E-2	17		10	10	10	13	14			15
1E-3	25			10	10	15	16			17
1E-4	36			10	10	17	18			19
1E-5	73					33	20			33
1E-6										
1E-7										
1E-8										

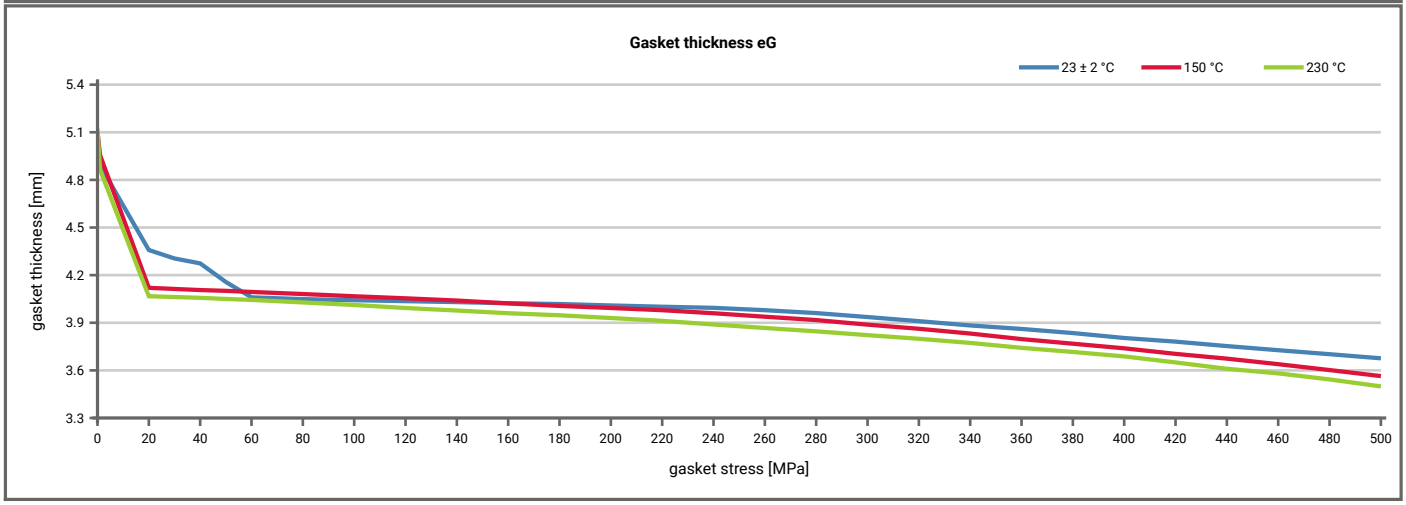


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **1**	Creation date of this sheet: **2013-02-15**

Manufacturer address	Möller Metalldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen, DE	According to **DIN EN 13555 2005-2**
Product name	MMKZ1P (kammprofile gasket with PTFE layers)	
Product dimensions	69 x 53 x 5 mm (DIN EN 1514-6 2004-3)	

Relaxation ratio P_{QR} for stiffness C = 500 [kN/mm]										
Gasket stress	**23 ± 2 °C**		**Temperature 1 [150 °C]**		**Temperature 2 [230 °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 [50 MPa]	0.95	8	0.99	2	1.00	1				
Stress level 2 [100 MPa]	0.99	5	0.92	25	0.94	18				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.99	15	0.96	61	0.95	77				
Q_{smax}	500 MPa		500 MPa		500 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	**23 ± 2 °C**		**Temperature 1 [150 °C]**		**Temperature 2 [230 °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	5.101	0	5.123				
1	0	4.892	0	4.956	0	4.864				
20	3528	4.358	6449	4.120	3776	4.067				
30	3465	4.305	9195	4.113	6218	4.062				
40	5462	4.274	8497	4.106	7754	4.057				
50	6772	4.157	9796	4.101	7217	4.050				
60	7511	4.060	9165	4.094	9273	4.044				
80	9253	4.049	9230	4.081	8923	4.028				
100	10591	4.042	10390	4.067	8698	4.012				
120	13310	4.036	11504	4.054	9131	3.993				
140	14086	4.030	12284	4.040	9750	3.977				
160	14801	4.023	11848	4.022	11136	3.960				
180	15818	4.018	12928	4.006	12788	3.947				
200	15930	4.009	14964	3.993	13864	3.930				
220	16597	4.001	17399	3.979	14862	3.912				
240	18700	3.994	15917	3.960	13855	3.889				
260	21036	3.979	15081	3.938	13551	3.867				
280	20266	3.961	15358	3.917	15257	3.846				
300	20263	3.936	15423	3.888	14821	3.822				
320	18185	3.910	17325	3.862	15192	3.799				
340	18663	3.883	18500	3.832	17004	3.773				
360	20572	3.861	16824	3.797	16452	3.742				
380	22805	3.835	17648	3.768	18349	3.716				
400	19630	3.804	20263	3.739	20883	3.688				
420	20317	3.781	18444	3.704	18668	3.650				
440	21406	3.753	19694	3.674	16950	3.610				
460	20213	3.727	19406	3.639	19911	3.581				
480	21644	3.702	18882	3.602	21560	3.543				
500	21138	3.676	18358	3.564	18341	3.499				



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