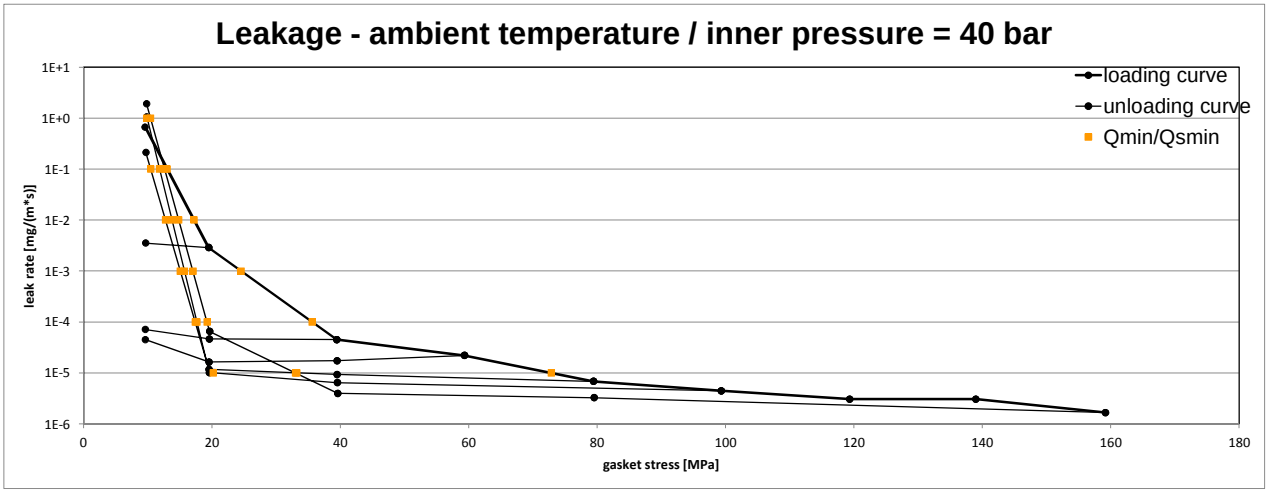
Company Address	*Möller Metalldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen, Germany*
Gasket Type	*MMKZ1P (kammprofile gasket with PTFE layers)*
Sealing element dimensions [mm]	*69 x 53 x 5*

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= 20 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}	10	10	10	10	10	10			10		
10^{-1}	13	10	10	10	10	12			13		
10^{-2}	17	10	10	10	13	14			15		
10^{-3}	25		10	10	15	16			17		
10^{-4}	36		10	10	17	18			19		
10^{-5}	73				33	20			33		
10^{-6}											
10^{-7}											
10^{-8}											



Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: 1	Creation date of this sheet:	*15.02.2013*

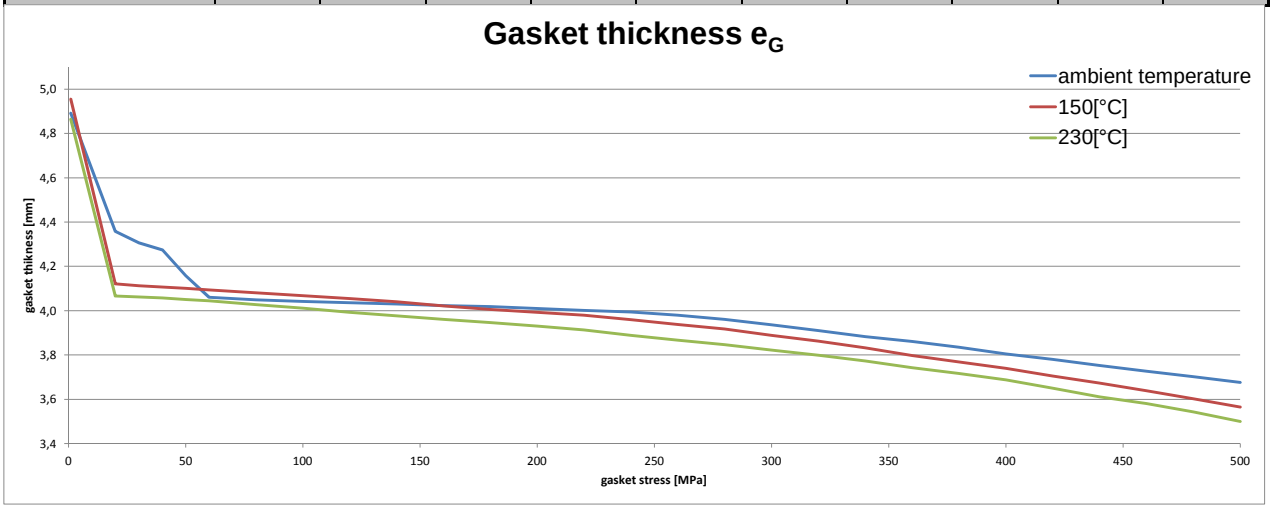
C S T Center of Sealing Technologies, Bürgerkamp 3, 48565 Steinfurt, Germany

Company Address	*Möller Metalldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen, Germany*
Gasket Type	*MMKZ1P (kammprofile gasket with PTFE layers)*
Sealing element dimensions [mm]	*69 x 53 x 5*

Relaxation ratio P_{QR} for stiffness **C** = 500 kN/mm					
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [230 °C]		
Stress level 1 [50 MPa]	0,95	0,99	1,00		
Stress level 2 [100 MPa]	0,99	0,92	0,94		
PQR at Q_{Smax}	0,99 *at 500 MPa*	0,96 *at 500 MPa*	0,95 *at 500 MPa*		

Maximal applicable gasket stress Q_{Smax}				
Q_{Smax} [MPa] ambient temperature	Q_{Smax} [MPa] – temperature 1 [150 °C]	Q_{Smax} [MPa] – temperature 2 [230 °C]		
500	500	500		

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	ambient temperature		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]				
0		5,09		5,10		5,12				
1		4,89		4,96		4,86				
20	3528	4,36	6449	4,12	3776	4,07				
30	3465	4,31	9195	4,11	6217	4,06				
40	5462	4,27	8496	4,11	7754	4,06				
50	6772	4,16	9796	4,10	7217	4,05				
60	7511	4,06	9164	4,09	9273	4,04				
80	9253	4,05	9230	4,08	8923	4,03				
100	10591	4,04	10390	4,07	8697	4,01				
120	13310	4,04	11504	4,05	9131	3,99				
140	14085	4,03	12283	4,04	9750	3,98				
160	14800	4,02	11848	4,02	11136	3,96				
180	15817	4,02	12928	4,01	12788	3,95				
200	15929	4,01	14964	3,99	13864	3,93				
220	16597	4,00	17398	3,98	14862	3,91				
240	18699	3,99	15917	3,96	13855	3,89				
260	21036	3,98	15080	3,94	13551	3,87				
280	20266	3,96	15358	3,92	*15256*	3,85				
300	20263	3,94	15423	3,89	14820	3,82				
320	18185	3,91	17325	3,86	15192	3,80				
340	18663	3,88	18499	3,83	17004	3,77				
360	20572	3,86	16824	3,80	16451	3,74				
380	22804	3,83	17648	3,77	18349	3,72				
400	19629	3,80	20263	3,74	20883	3,69				
420	20316	3,78	18444	3,70	18667	3,65				
440	21406	3,75	19694	3,67	16949	3,61				
460	20213	3,73	19406	3,64	19910	3,58				
480	21643	3,70	18882	3,60	21560	3,54				
500	21138	3,68	18358	3,56	18341	3,50				



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