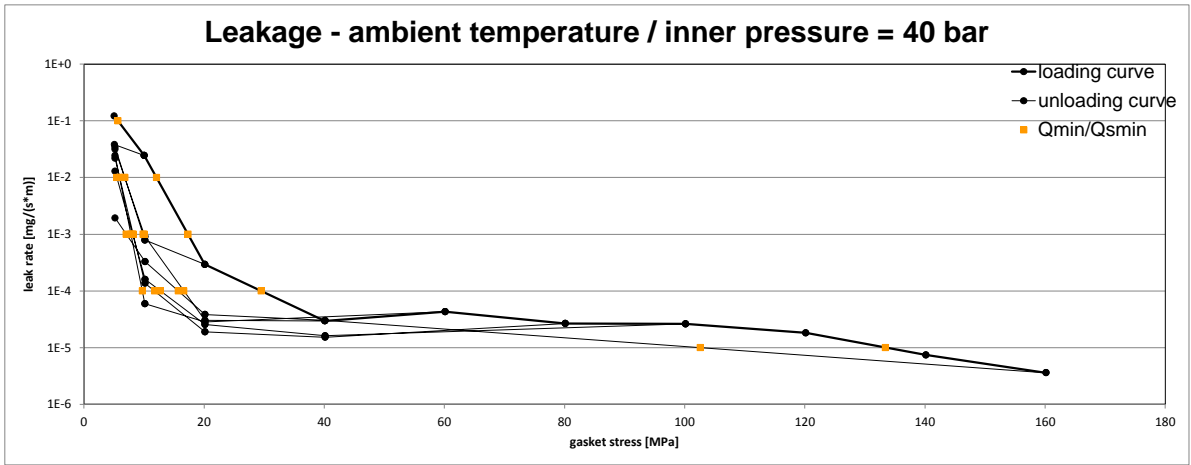


Company Address	Möller Metalldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen, Germany	According to DIN EN 13555 2014-07
Gasket Type	MMD-CG-FG mit Graphitauflage (1.4571/0.5mm)	
Sealing element dimensions [mm]	92 x 49 x 2.3	

L [mg/(s*m)]	Q _{minL} [MPa]	Minimum stress to seal Q _{minL} (at assembly), Q _{SminL} (after off-loading) for p = 40 bar									
		Q _{SminL} [MPa]									
		Q _A = 10 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	5	5	5	5	5	5	5			5	
10 ⁻¹	6	5	5	5	5	5	5			5	
10 ⁻²	12		7	7	6	6	5			5	
10 ⁻³	17		10	10	8	8	8			7	
10 ⁻⁴	30			17	10	12	13			16	
10 ⁻⁵	133									103	
10 ⁻⁶											
10 ⁻⁷											
10 ⁻⁸											



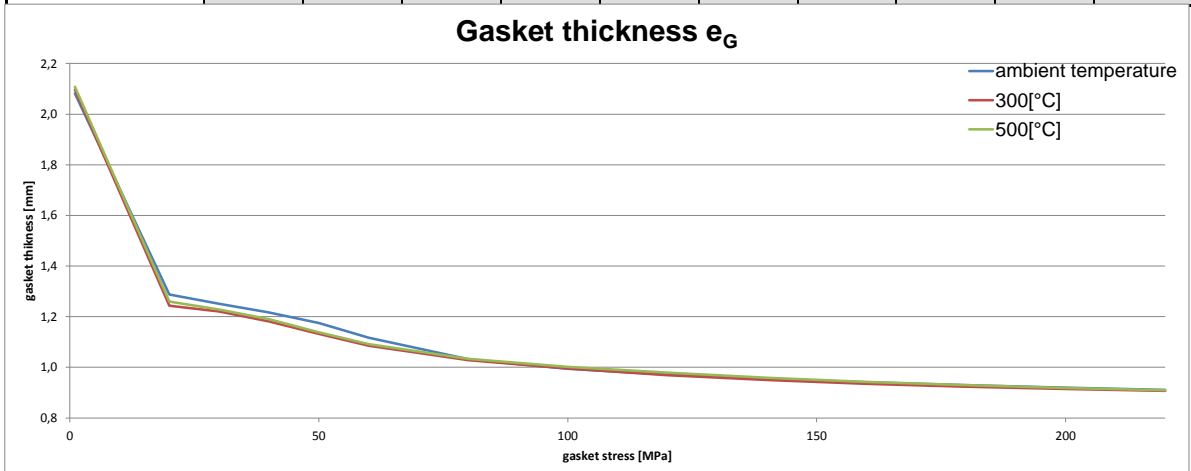
Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: 1	Creation date of this sheet: 2020-10-09
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Company Address	Möller Metalldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen, Germany	According to DIN EN 13555 2014-07
Gasket Type	MMD-CG-FG mit Graphitauflage (1.4571/0.5mm)	
Sealing element dimensions [mm]	92 x 49 x 2.3	

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm										
Gasket stress	ambient temperature		temperature 1 [300 °C]		temperature 2 [500 °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 [30 MPa]	0.95	0.014	0.83	0.044	0.85	0.039				
Stress level 2 [50 MPa]	0.97	0.013	0.90	0.044	0.90	0.044				
P_{QR} and Δe_{Gc} at maximal applicable gasket stress Q_{Smax}										
P_{QR} at Q_{Smax}	1.00	0.000	0.98	0.037	0.97	0.055				
Q_{Smax}	220 MPa		220 MPa		220 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [300 °C]		temperature 2 [500 °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										
1		2.081		2.097		2.109				
20	2273	1.287	3865	1.243	9632	1.260				
30	3127	1.250	4667	1.220	10981	1.228				
40	3905	1.217	5221	1.182	9125	1.190				
50	4414	1.175	4584	1.132	7896	1.138				
60	4547	1.117	5093	1.085	6946	1.091				
80	4746	1.032	5500	1.028	7189	1.034				
100	5275	0.995	6137	0.996	7481	1.002				
120	6112	0.972	6662	0.969	7321	0.979				
140	6998	0.955	7637	0.950	7598	0.958				
160	7620	0.941	8417	0.935	8452	0.942				
180	8273	0.929	9153	0.924	9132	0.930				
200	9330	0.919	9584	0.914	9129	0.919				
220	10168	0.911	10451	0.907	9095	0.909				
240										
260										
280										
300										
320										
340										
360										
380										
400										
420										
440										
460										
480										
500										
940										

Gasket thickness e_G



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