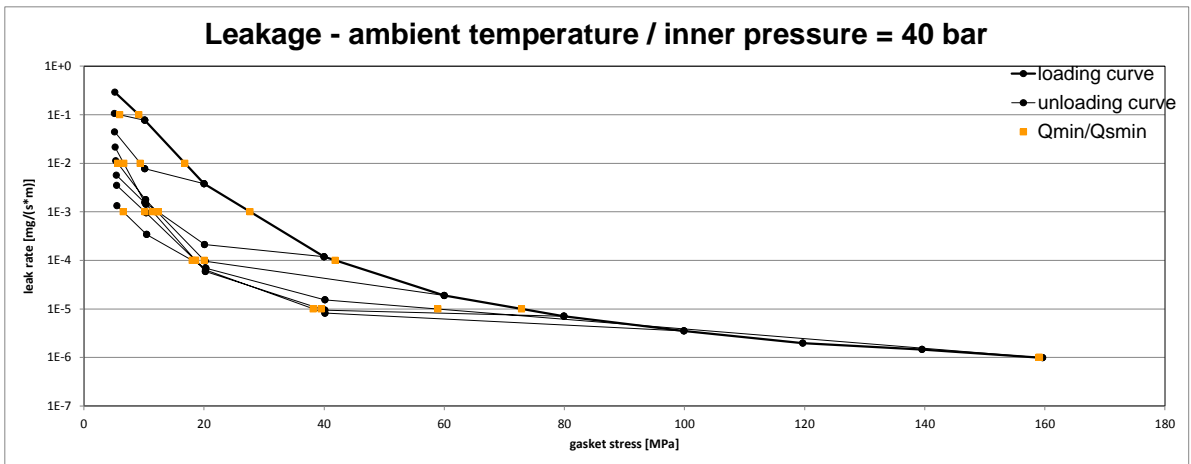
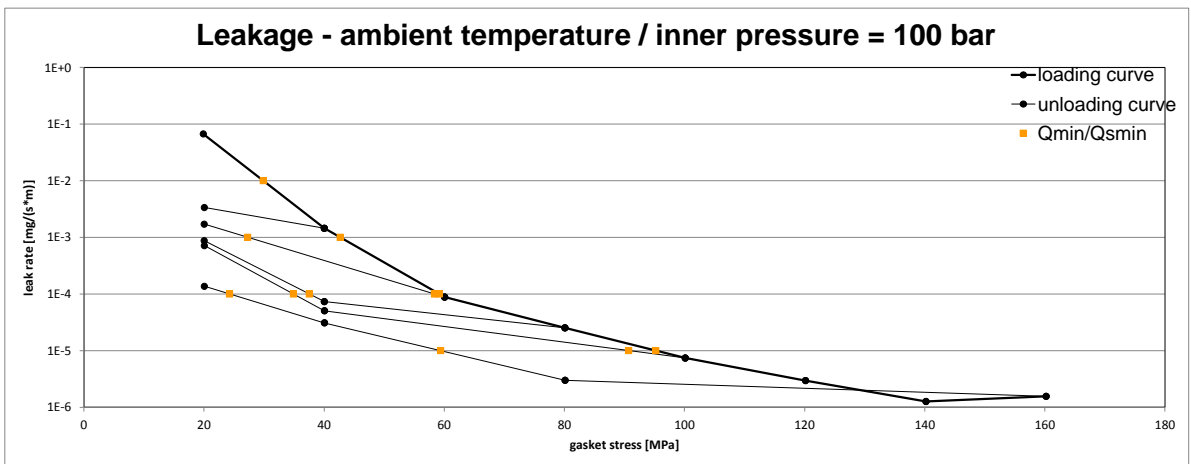


Company Address	Möller Metaldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen	According to <b>DIN EN 13555</b> 2014-07
Gasket Type	MMW mit Graphitauflage (1.4571 / 0.8 mm)	
Sealing element dimensions [mm]	92 x 49 x 3	

L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 40 bar									
		Q <sub>Smin/L</sub> [MPa]									
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa	Q <sub>A</sub> = 100 MPa	Q <sub>A</sub> = 120 MPa	Q <sub>A</sub> = 140 MPa	Q <sub>A</sub> = 160 MPa	
10 <sup>0</sup>	5	5	5	5	5	5	5	5		5	
10 <sup>-1</sup>	9	6	5	5	5	5	5			5	
10 <sup>-2</sup>	17		9	7	6	5	5			5	
10 <sup>-3</sup>	28			12	12	11	10			7	
10 <sup>-4</sup>	42				20	19	19			18	
10 <sup>-5</sup>	73					39	38			59	
10 <sup>-6</sup>	159									159	
10 <sup>-7</sup>											
10 <sup>-8</sup>											



L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 100 bar							
		Q <sub>Smin/L</sub> [MPa]							
		Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa	Q <sub>A</sub> = 100 MPa	Q <sub>A</sub> = 120 MPa	Q <sub>A</sub> = 140 MPa	Q <sub>A</sub> = 160 MPa	
10 <sup>0</sup>	20	20	20	20	20			20	
10 <sup>-1</sup>	20	20	20	20	20			20	
10 <sup>-2</sup>	30	20	20	20	20			20	
10 <sup>-3</sup>	43		27	20	20			20	
10 <sup>-4</sup>	59		58	38	35			24	
10 <sup>-5</sup>	95				91			59	
10 <sup>-6</sup>									
10 <sup>-7</sup>									
10 <sup>-8</sup>									



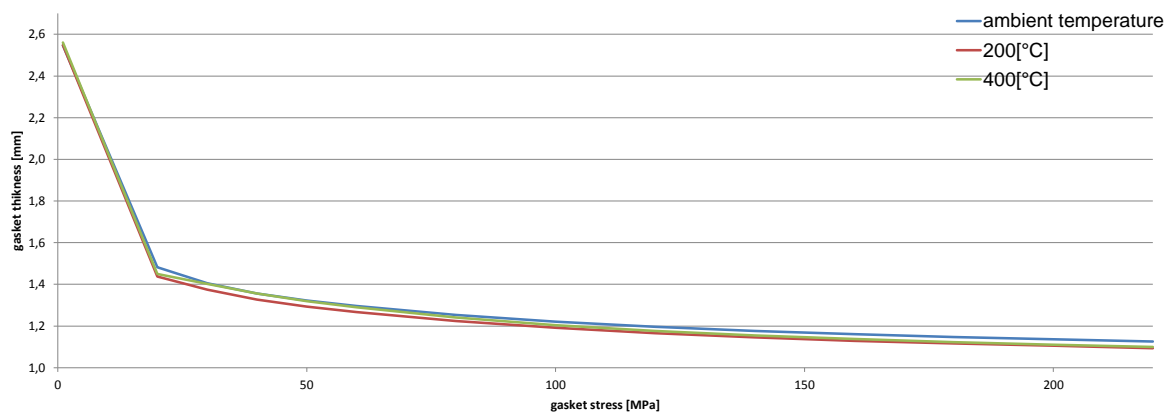
Note: the content of darkened cells was not determined respectively is unnecessary      Rev - No: 2      Creation date of this sheet: 2023-10-13

Company Address	Möller Metaldichtungen GmbH, Brunnenweg 10, 39444 Hecklingen	According to <b>DIN EN 13555</b> <b>2014-07</b>
Gasket Type	MMW mit Graphitauflage (1.4571 / 0.8 mm)	
Sealing element dimensions [mm]	92 x 49 x 3	

Relaxation ratio $P_{QR}$ for stiffness $C = 500$ kN/mm										
Gasket stress	ambient temperature		temperature 1 [200 °C]		temperature 2 [400 °C]					
	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]
Stress level 1 [30 MPa]	0.98	0.006	0.88	0.030	0.87	0.032				
Stress level 2 [50 MPa]	0.99	0.004	0.93	0.031	0.93	0.031				
$P_{QR}$ and $\Delta e_{Gc}$ at maximal applicable gasket stress $Q_{Smax}$										
$P_{QR}$ at $Q_{Smax}$	1.00	0.000	0.98	0.036	0.97	0.054				
$Q_{Smax}$	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 [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										
1		2.548		2.548		2.561				
20	1198	1.482	1355	1.438	1330	1.450				
30	1753	1.405	1879	1.374	1893	1.403				
40	2325	1.357	2268	1.326	2360	1.355				
50	2971	1.323	2964	1.293	2908	1.319				
60	3574	1.296	3450	1.267	3421	1.290				
80	4622	1.253	4510	1.224	4146	1.241				
100	5728	1.220	5568	1.192	4776	1.204				
120	7059	1.196	5910	1.166	5280	1.177				
140	8027	1.177	7319	1.146	6031	1.155				
160	8933	1.161	8055	1.129	6463	1.137				
180	9830	1.147	9112	1.116	6886	1.123				
200	11251	1.136	8715	1.105	7455	1.111				
220	12170	1.126	9163	1.094	7672	1.100				
240										
260										
280										
300										
320										
340										
360										
380										
400										
420										
440										
460										
480										
500										
940										

Gasket thickness  $e_G$



Note: the content of darkened cells was not determined respectively is unnecessary

Rev - No: 2

Creation date of this sheet:

2023-10-13

