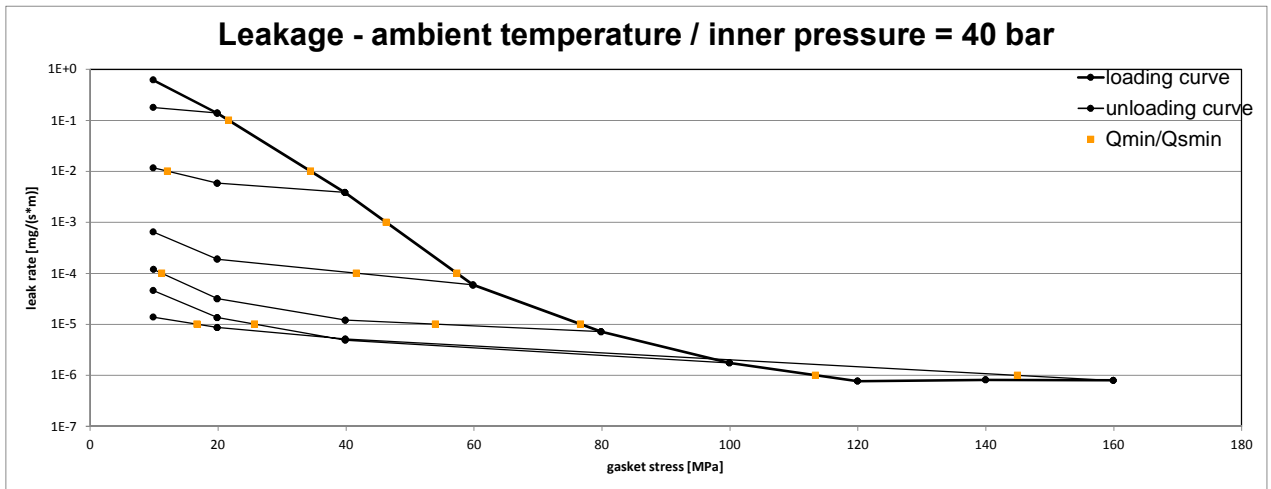


Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany	According to <b>DIN EN 13555</b> <b>2014-07</b>
Gasket Type	IFG® 5500	
Sealing element dimensions [mm]	92 x 49 x 2	

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> = 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>	10	10	10	10	10	10			10	
10 <sup>-1</sup>	22		10	10	10	10			10	
10 <sup>-2</sup>	35		12	10	10	10			10	
10 <sup>-3</sup>	46			10	10	10			10	
10 <sup>-4</sup>	57			42	11	10			10	
10 <sup>-5</sup>	77				54	26			17	
10 <sup>-6</sup>	113								145	
10 <sup>-7</sup>										
10 <sup>-8</sup>										

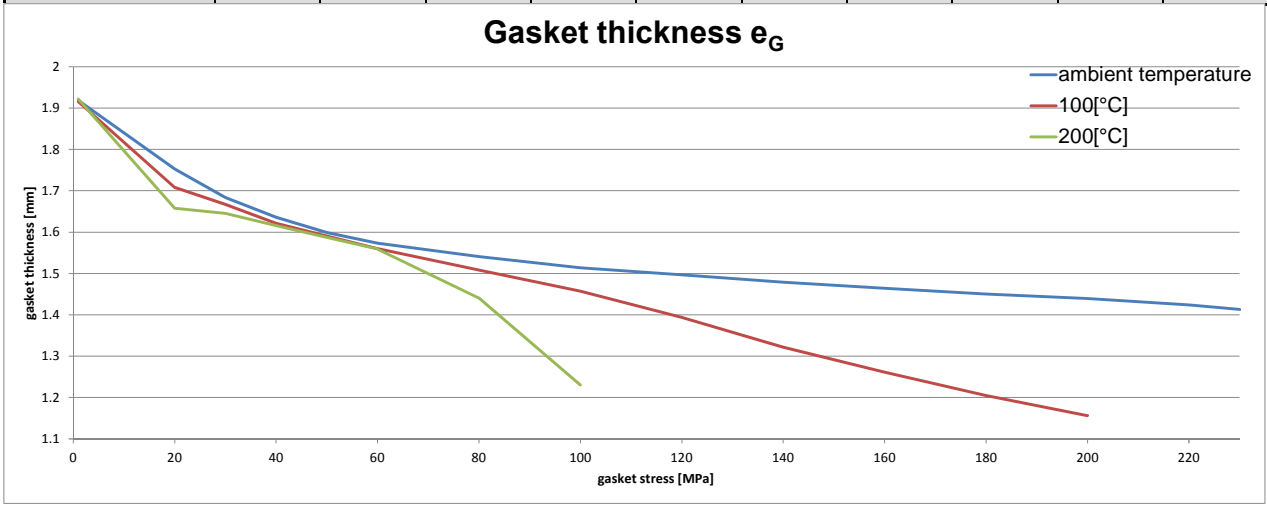


Note: the content of darkened cells was not determined respectively is unnecessary      Rev - No: 2      Creation date of this sheet: 2016-01-06

Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany	According to <b>DIN EN 13555 2014-07</b>
Gasket Type	IFG@ 5500	
Sealing element dimensions [mm]	92 x 49 x 2	

Relaxation ratio $P_{QR}$ for stiffness $C = 500$ kN/mm						
Gasket stress	ambient temperature		temperature 1 [100 °C]		temperature 2 [200 °C]	
	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]
Stress level 1 [10 MPa]	0.89	0.007	0.70	0.025	0.45	0.046
Stress level 2 [30 MPa]	0.92	0.018	0.77	0.057	0.65	0.088
$P_{QR}$ and $\Delta e_{Gc}$ at maximal applicable gasket stress $Q_{Smax}$						
$P_{QR}$ at $Q_{Smax}$	0.99	0.021	0.84	0.263	0.69	0.259
$Q_{Smax}$	230 MPa		200 MPa		100 MPa	

Sekant unloading modulus of the gasket $E_G$ [MPa] and gasket thickness $e_G$ [mm]						
Gasket stress [MPa]	ambient temperature		temperature 1 [100 °C]		temperature 2 [200 °C]	
	$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]
0		1.941		1.932		1.942
1		1.919		1.916		1.922
20	726	1.753	999	1.708	1840	1.658
30	966	1.684	1194	1.667	2880	1.645
40	1488	1.636	1631	1.622	1700	1.616
50	1631	1.599	2034	1.590	1935	1.588
60	2048	1.573	1958	1.560	2287	1.560
80	3117	1.541	2766	1.509	2368	1.441
100	3224	1.514	3258	1.457	2575	1.231
120	3833	1.497	3024	1.394		
140	3975	1.479	3255	1.322		
160	4094	1.464	3697	1.262		
180	4382	1.451	3578	1.205		
200	4750	1.439	3555	1.157		
220	4445	1.424				
230	4517	1.413				



Note: the content of darkened cells was not determined respectively is unnecessary | Rev - No: 2 | Creation date of this sheet: 2016-01-06