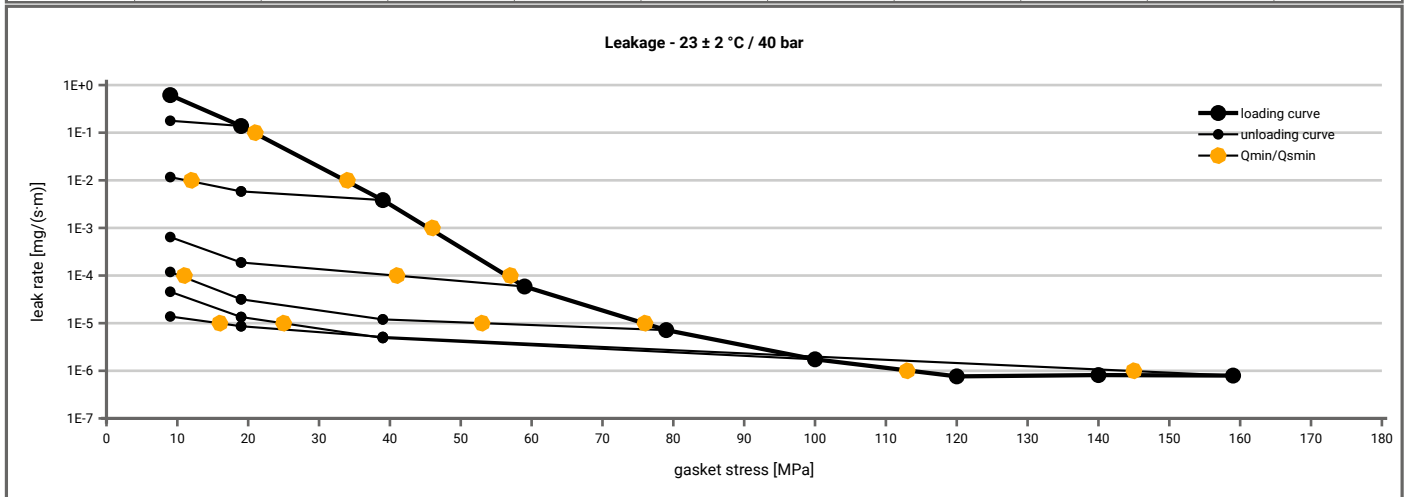


Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to <b>EN 13555</b> <b>2021-4</b>
Product name	IFG® 5500	
Product dimensions	92 x 49 x 2 mm	

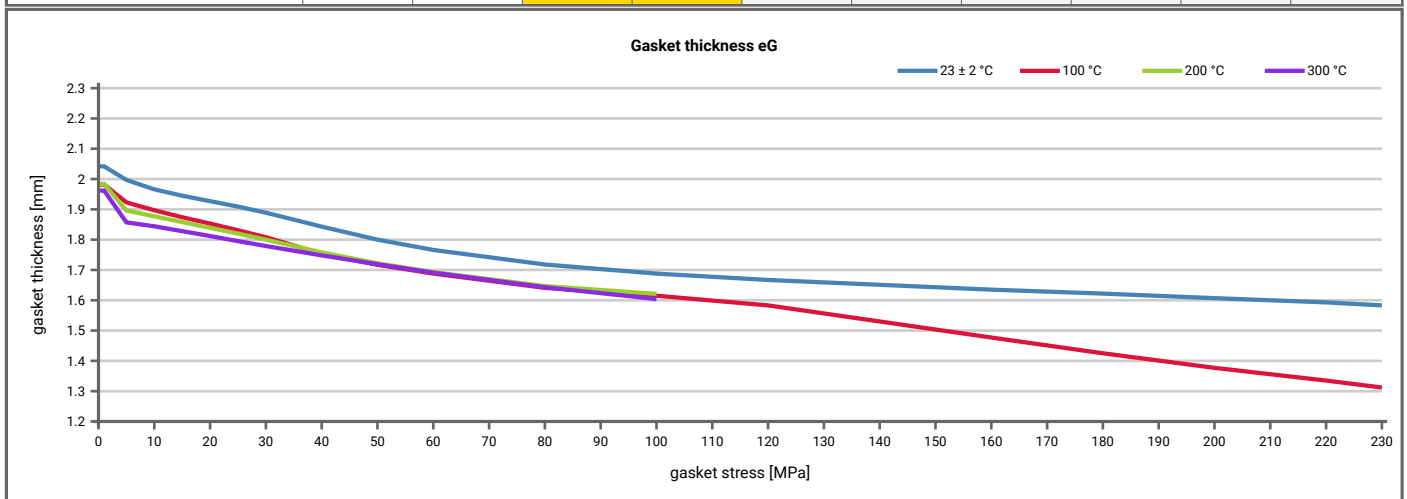
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ( $T = 23 \pm 2$ °C)										
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E-0	10		10	10	10	10	10			10
1E-1	22			10	10	10	10			10
1E-2	35			12	10	10	10			10
1E-3	46				10	10	10			10
1E-4	57				42	11	10			10
1E-5	77					54	26			17
1E-6	113									145
1E-7										



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Relaxation ratio $P_{QR}$ for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [200 °C]		Temperature 3 [300 °C]		$P_{QR}$	$\Delta e_{GC}$ [µm]
	$P_{QR}$	$\Delta e_{GC}$ [µm]	$P_{QR}$	$\Delta e_{GC}$ [µm]	$P_{QR}$	$\Delta e_{GC}$ [µm]	$P_{QR}$	$\Delta e_{GC}$ [µm]		
Stress level 1 [10 MPa]	0.95	5	0.82	16	0.55	38	0.29	60		
Stress level 2 [30 MPa]	0.95	13	0.83	44	0.63	93	0.49	128		
<b><math>P_{QR}</math> and <math>\Delta e_{GC}</math> at maximum gasket stress to be applied (<math>Q_{smax}</math>)</b>										
$P_{QR}$ at $Q_{smax}$	0.99	29	0.88	232	0.85	126	0.72	235		
$Q_{smax}$	230 MPa		230 MPa		100 MPa		100 MPa			

Sekant unloading modulus of the gasket $E_G$ [MPa] and gasket thickness $e_G$ [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [200 °C]		Temperature 3 [300 °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	2.042	0	1.982	0	1.984	0	1.962		
1	0	2.042	0	1.982	0	1.984	0	1.962		
5	413	1.997	543	1.923	2008	1.896	9557	1.857		
10	598	1.966	638	1.897	974	1.877	1351	1.844		
15	810	1.945	817	1.874	1020	1.858	1318	1.828		
20	1019	1.927	990	1.853	1160	1.839	1440	1.812		
25	1148	1.909	1125	1.831	1257	1.820	1529	1.795		
30	1275	1.889	1229	1.808	1387	1.800	1610	1.779		
40	1508	1.843	1513	1.753	1588	1.758	1875	1.748		
50	1797	1.800	1835	1.717	1898	1.722	2109	1.719		
60	2172	1.766	2250	1.688	2237	1.693	2402	1.691		
80	3078	1.718	3115	1.641	2903	1.647	2978	1.643		
100	4127	1.688	3856	1.615	3569	1.621	3660	1.604		
120	5105	1.667	4511	1.583						
140	6056	1.651	4985	1.530						
160	6504	1.635	5447	1.477						
180	6988	1.622	5625	1.425						
200	7348	1.607	5810	1.377						
220	7713	1.593	5785	1.335						
230	7740	1.583	5951	1.312						



Fields marked: Intrusion into bore was detected. Determined after the corresponding  $P_{QR}$  Test.