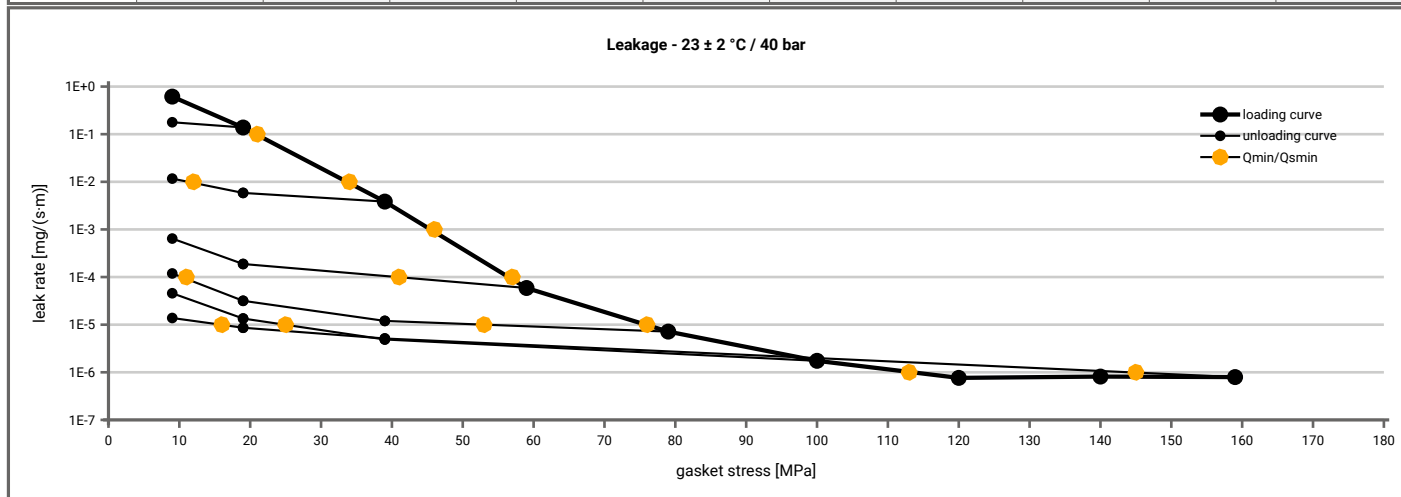


Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to EN 13555 2021-4
Product name	IFG® 5500	
Product dimensions	92 x 49 x 2 mm	

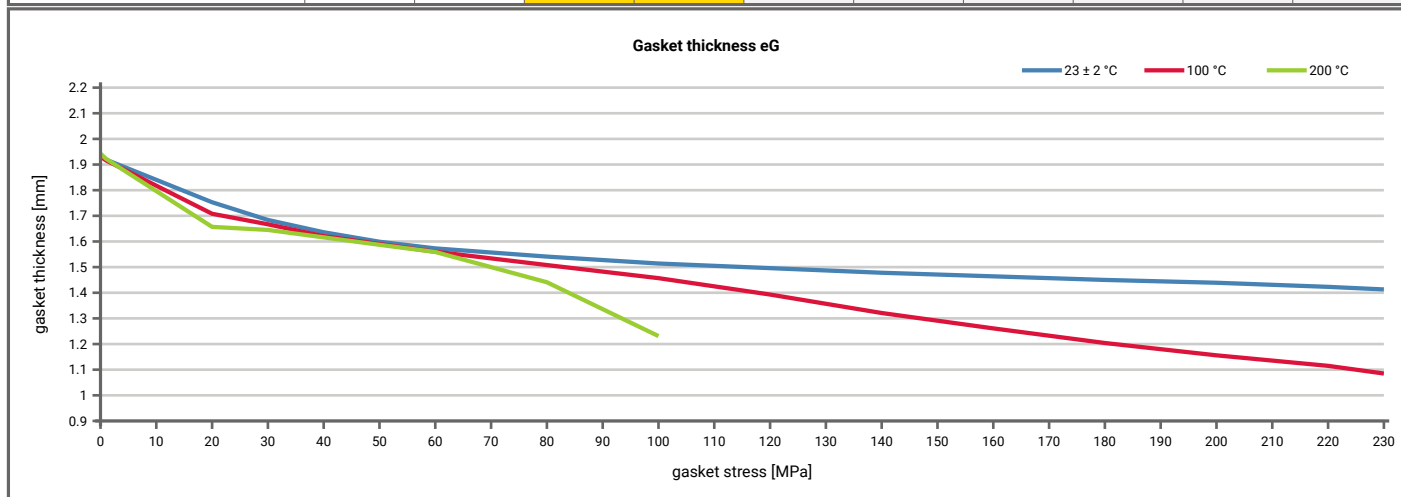
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °C)										
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [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										
1E-8										



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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]					
	P _{QR}	Δe _{Gc} [μm]	P _{QR}	Δe _{Gc} [μm]	P _{QR}	Δe _{Gc} [μm]	P _{QR}	Δe _{Gc} [μm]	P _{QR}	Δe _{Gc} [μm]
Stress level 1 [10 MPa]	0.89	9	0.70	26	0.45	47				
Stress level 2 [30 MPa]	0.92	20	0.77	59	0.65	88				
Stress level 3 [200 MPa]			0.84	269						
P _{QR} and Δe _{Gc} at maximum gasket stress to be applied (Q _{smax})										
P _{QR} at Q _{smax}	0.99	29	0.82	347	0.69	260				
Q _{smax}	230 MPa		230 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]					
	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	1.941	0	1.931	0	1.942				
1	0	1.919	0	1.916	0	1.922				
20	726	1.753	999	1.708	1841	1.657				
30	966	1.684	1194	1.667	2880	1.645				
40	1489	1.636	1631	1.621	1700	1.616				
50	1631	1.599	2034	1.590	1935	1.587				
60	2048	1.573	1958	1.560	2287	1.559				
80	3117	1.541	2766	1.508	2368	1.441				
100	3224	1.514	3258	1.457	2575	1.231				
120	3834	1.496	3024	1.393						
140	3975	1.478	3255	1.321						
160	4095	1.464	3697	1.261						
180	4382	1.450	3578	1.204						
200	4750	1.439	3555	1.156						
220	4445	1.423	3558	1.115						
230	4518	1.413	3365	1.085						



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