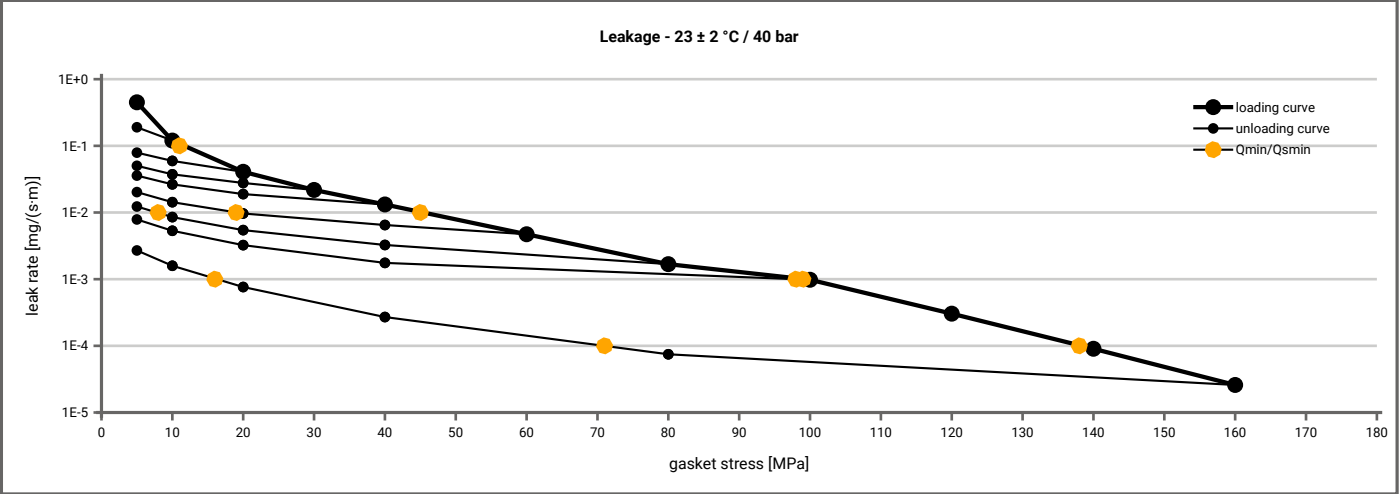


Manufacturer address	Planichem, Via Consolare 41-43, 25030 Zocco di Erbusco (BS), IT	According to DIN EN 13555 2014-7
Product name	FLEXIGRAF® FGS4	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

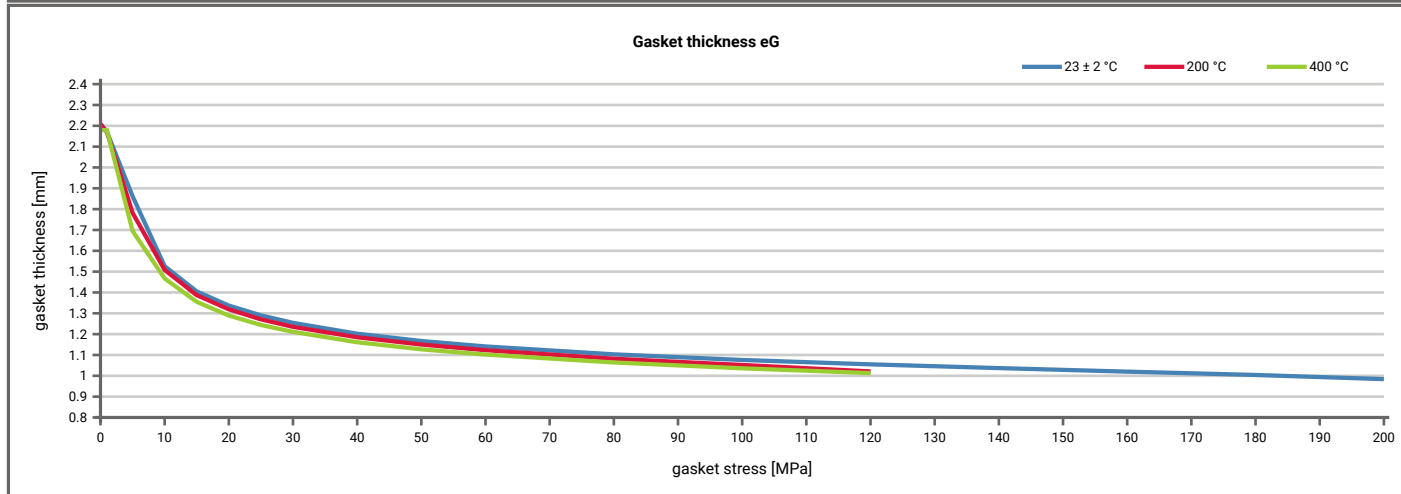
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E-0	5		5	5	5	5	5	5	5			5
1E-1	12			5	5	5	5	5	5			5
1E-2	45						19	8	5			5
1E-3	99								98			16
1E-4	138											71
1E-5												
1E-6												
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 [200 °C]		Temperature 2 [400 °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 [30 MPa]	0.99	3	0.89	28	0.80	52				
Stress level 2 [50 MPa]	0.99	4	0.93	29	0.88	50				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	1.00	0	0.96	40	0.94	60				
Q_{smax}	200 MPa		120 MPa		120 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		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	0	2.210	0	2.207	0	2.180				
1	0	2.171	0	2.170	0	2.179				
5	86	1.862	101	1.782	103	1.695				
10	181	1.526	186	1.508	195	1.467				
15	288	1.405	284	1.387	295	1.355				
20	408	1.337	406	1.319	407	1.289				
25	529	1.290	525	1.271	519	1.244				
30	659	1.254	637	1.235	658	1.211				
40	931	1.202	902	1.185	899	1.161				
50	1220	1.167	1217	1.150	1203	1.127				
60	1543	1.141	1499	1.123	1457	1.102				
80	2173	1.103	2017	1.082	2027	1.064				
100	2868	1.076	2579	1.052	2496	1.036				
120	3473	1.055	2881	1.021	2938	1.013				
140	4142	1.037								
160	4671	1.020								
180	5088	1.004								
200	5301	0.984								



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2017-03-20
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