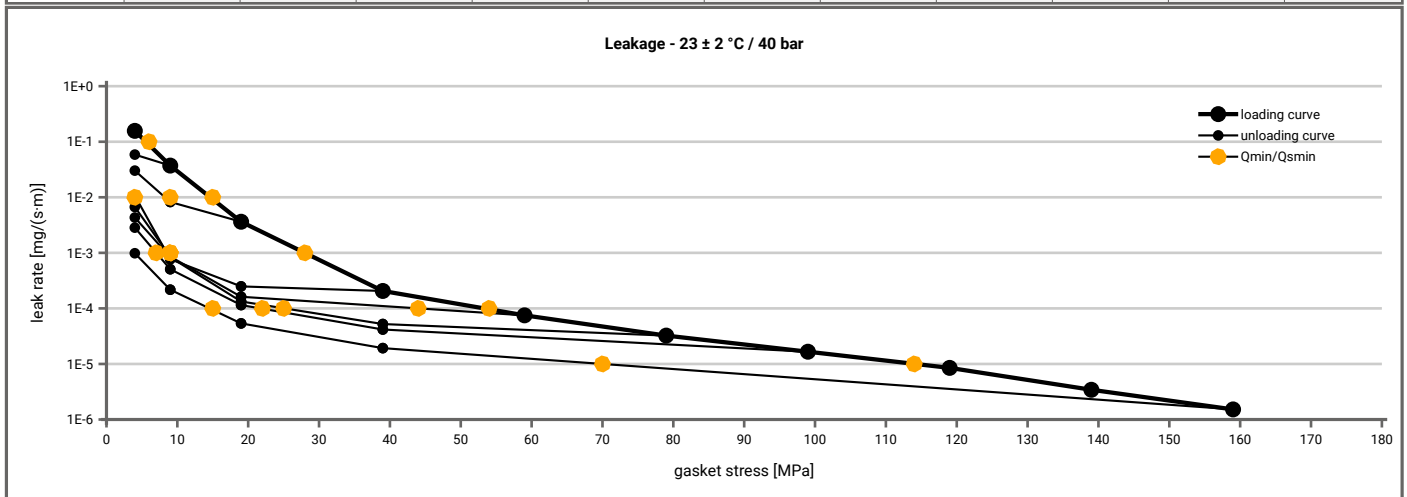


Manufacturer address	ERIKS bv, Toermalijnstraat 5, 1812 RL Alkmaar, NL	According to DIN EN 13555 2014-7
Product name	G2	
Product dimensions	87 x 49 x 2.9 mm (DIN EN 1514-4 1997-8)	

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]									
		$Q_A = 4.8$ [MPa]	$Q_A = 9.8$ [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	5		5	5	5	5	5	5			5
1E-1	6		5	5	5	5	5	5			5
1E-2	15			9	5	5	5	5			5
1E-3	29				9	9	9	8			5
1E-4	54					45	26	23			15
1E-5	115										71
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 [450 °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]	0.96	11	0.84	39	0.79	51				
Stress level 2 [50 MPa]	0.98	10	0.93	28	0.88	49				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	1.00	0	0.99	28	0.96	75				
Q_{smax}	230 MPa		230 MPa		230 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 [450 °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	2.897	0	2.888	0	2.904				
1	0	2.704	0	2.649	0	2.671				
20	831	1.622	1406	1.495	863	1.522				
30	1227	1.459	1293	1.377	1448	1.433				
40	1377	1.377	2146	1.313	1581	1.361				
50	2076	1.334	2212	1.277	2113	1.314				
60	2642	1.303	2397	1.250	2061	1.285				
80	2995	1.258	3634	1.213	3333	1.245				
100	3829	1.227	4237	1.188	3729	1.215				
120	4987	1.208	4623	1.168	5338	1.195				
140	6178	1.193	6313	1.157	7679	1.179				
160	7136	1.182	7588	1.145	5420	1.160				
180	8808	1.175	8068	1.136	5200	1.146				
200	8678	1.165	7990	1.126	5625	1.134				
220	8806	1.157	7787	1.115	5269	1.123				
230	9076	1.152	6930	1.107	5496	1.117				

