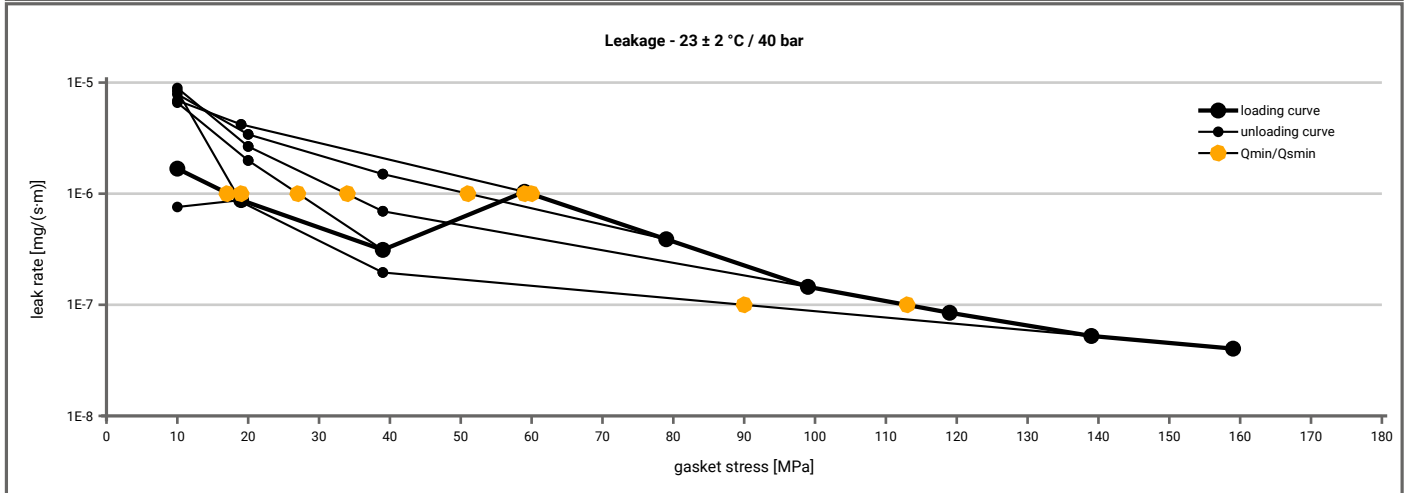


Manufacturer address	James Walker Moorflex Ltd, John Escritt Road, BD16 2BS West Yorkshire, GB	According to DIN EN 13555 2005-2
Product name	Corrusafe - Graphite / PTFE	
Product dimensions	97 x 58.6 x 2 mm (DIN EN 1514-4 1997-8)	

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]								
		$Q_A = 10$ [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]	$Q_A = 159$ [MPa]
1E-0	10		10	10	10	10	10	10		10
1E-1	10		10	10	10	10	10	10		10
1E-2	10		10	10	10	10	10	10		10
1E-3	10		10	10	10	10	10	10		10
1E-4	10		10	10	10	10	10	10		10
1E-5	10		10	10	10	10	10	10		10
1E-6	18		10	27		52	34			19
1E-7	113									91
1E-8										



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Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [175 °C]		Temperature 2 [240 °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 [15 MPa]	0.88	12	0.57	44	0.41	60				
Stress level 2 [90 MPa]	0.93	46	0.73	168	0.64	219				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.98	28	0.89	156	0.89	163				
Q_{smax}	210 MPa		210 MPa		210 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [175 °C]		Temperature 2 [240 °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	1.995	0	2.055	0	1.990				
1	0	1.825	0	1.778	0	1.467				
20	1174	1.476	1129	1.194	877	0.941				
30	1575	1.443	1442	1.125	1517	0.885				
40	1892	1.413	2186	1.071	1544	0.849				
50	2799	1.393	3744	1.027	3039	0.820				
60	3525	1.373	3451	0.994	3551	0.801				
80	4493	1.336	5090	0.946	7571	0.763				
100	7430	1.302	7670	0.907	10789	0.735				
120	9161	1.271	9754	0.881	13365	0.714				
140	12098	1.244	14436	0.862	13703	0.701				
160	11010	1.213	17722	0.849	15482	0.692				
180	10575	1.184	12535	0.837	15290	0.684				
200	11145	1.156	14666	0.825	22789	0.676				
210	10337	1.139	14085	0.821	23397	0.673				

