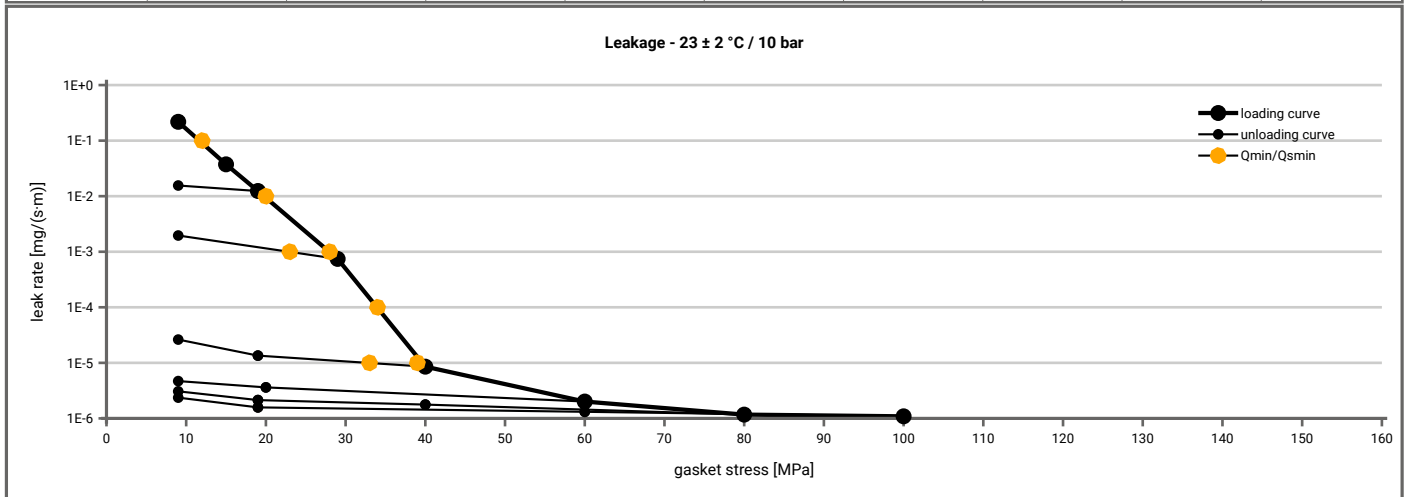
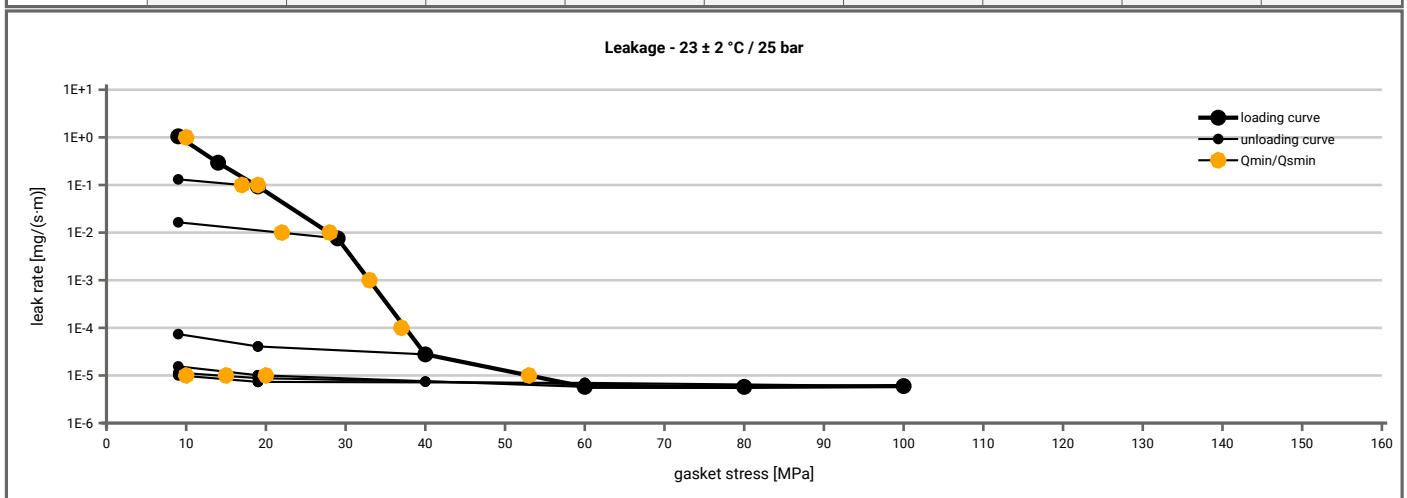


Manufacturer address	James Walker Moorflex Ltd, John Escritt Road, BD16 2BS West Yorkshire, GB	According to EN 13555 2021-4
Product name	Fluolion® 200	
Product dimensions	92 x 49 x 3 mm	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ bar ($T = 23 \pm 2$ °C)									
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]							
		$Q_A = 10$ [MPa]	$Q_A = 15$ [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]
1E-0	10			10	10	10	10	10	10
1E-1	12			10	10	10	10	10	10
1E-2	21				10	10	10	10	10
1E-3	29				24	10	10	10	10
1E-4	34					10	10	10	10
1E-5	40					33	10	10	10
1E-6									
1E-7									

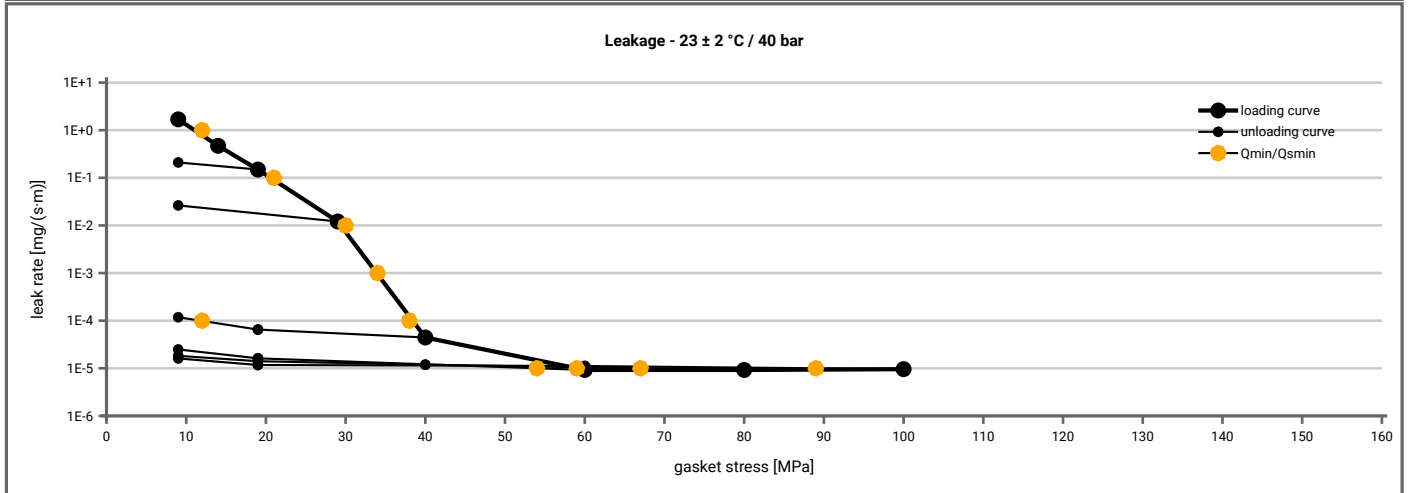


Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 25$ bar ($T = 23 \pm 2$ °C)									
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]							
		$Q_A = 10$ [MPa]	$Q_A = 15$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]
1E+1	10			10	10	10	10	10	10
1E-0	10			10	10	10	10	10	10
1E-1	20			18	10	10	10	10	10
1E-2	29				23	10	10	10	10
1E-3	34					10	10	10	10
1E-4	38					10	10	10	10
1E-5	53						21	15	10
1E-6									
1E-7									



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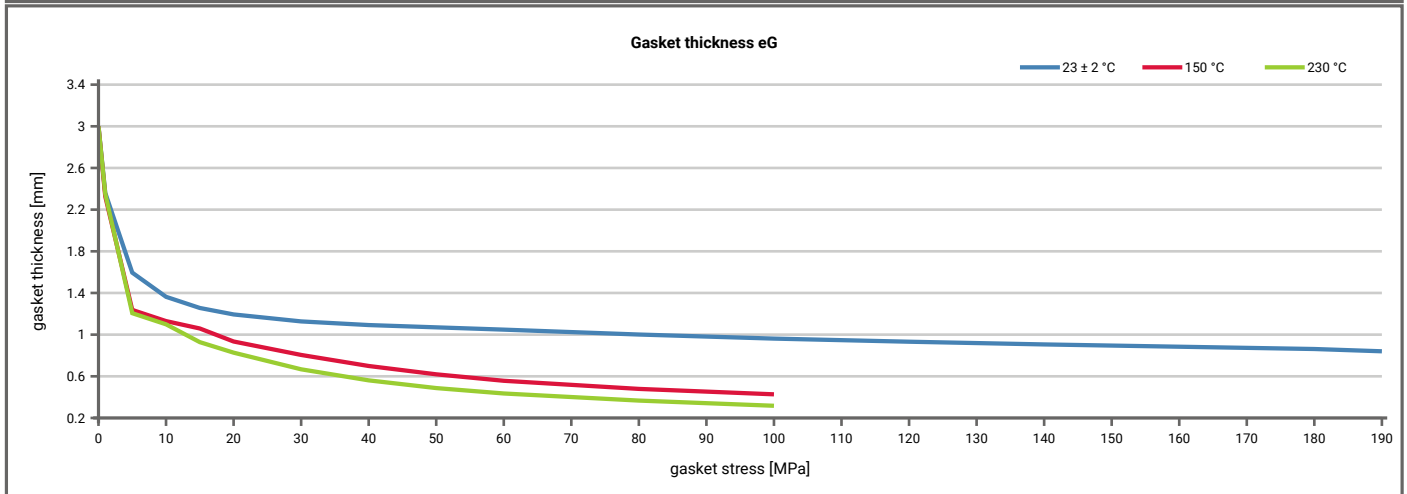
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °C)									
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]							
		$Q_A = 10$ [MPa]	$Q_A = 15$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]
1E+1	10			10	10	10	10	10	10
1E-0	12			10	10	10	10	10	10
1E-1	22				10	10	10	10	10
1E-2	30					10	10	10	10
1E-3	34					10	10	10	10
1E-4	38					13	10	10	10
1E-5	59						54	67	89
1E-6									
1E-7									



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Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [230 °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]	0.90	25	0.62	96	0.46	136				
Stress level 2 [50 MPa]	0.87	55	0.54	193	0.44	235				
P _{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.97	56	0.54	386	0.45	462				
Q_{smax}	190 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 [150 °C]		Temperature 2 [230 °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	3.000	0	3.000	0	3.000				
1	0	2.361	0	2.327	0	2.351				
5	89	1.595	85	1.237	97	1.206				
10	205	1.363	238	1.130	311	1.099				
15	351	1.256	608	1.059	464	0.928				
20	535	1.194	829	0.934	664	0.827				
30	1003	1.127	1491	0.805	1017	0.667				
40	1628	1.092	2019	0.699	1373	0.561				
50	2294	1.070	2494	0.619	1638	0.487				
60	2913	1.048	2897	0.557	1823	0.435				
80	4221	1.001	3645	0.479	2020	0.367				
100	4235	0.962	3409	0.427	2000	0.317				
120	4287	0.932								
140	4224	0.906								
160	4156	0.884								
180	3929	0.862								
190	3643	0.840								



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