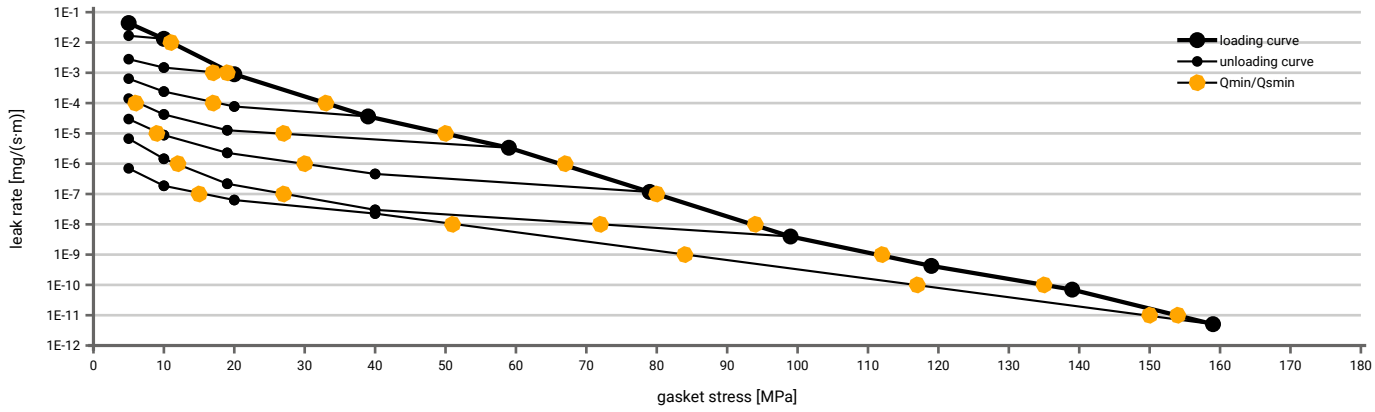
Manufacturer address	James Walker Moorflex Ltd, John Escritt Road, BD16 2BS West Yorkshire, GB	According to EN 13555 2021-4
Product name	Metakamm ActiVate	
Product dimensions	69 x 53 x 4 mm	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 10 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]									
		Q_A = 5.2 [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	5		5	6	5	5	5	5			5
1E-1	5		5	6	5	5	5	5			5
1E-2	11			6	5	5	5	5			5
1E-3	20			18	5	5	5	5			5
1E-4	34				18	6	5	5			5
1E-5	51					27	10	5			5
1E-6	67						30	12			5
1E-7	81							28			16
1E-8	94							72			52
1E-9	112										84
1E-10	136										117
1E-11	155										150
1E-12											

Leakage - 23 ± 2 °C / 10 bar



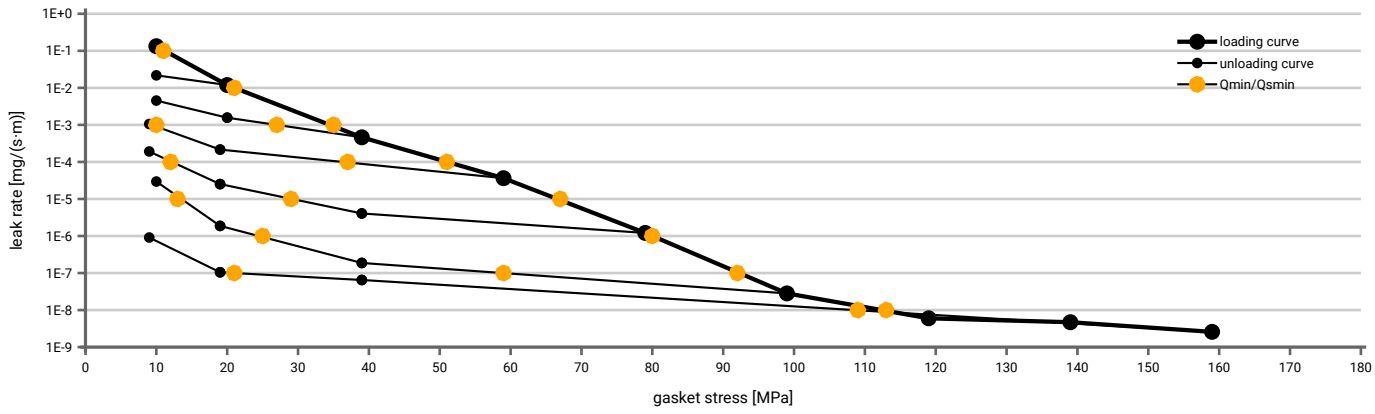
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		Q_A = 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	11		10	10	10	10	10			10
1E-2	21			10	10	10	10			10
1E-3	35			27	10	10	10			10
1E-4	52				37	13	10			10
1E-5	67					30	14			10
1E-6	81						25			10
1E-7	93						60			22
1E-8	113									109
1E-9										

Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **2**	Creation date of this sheet: **2023-09-08**

Manufacturer address	James Walker Moorflex Ltd, John Escritt Road, BD16 2BS West Yorkshire, GB	According to **EN 13555 2021-4**
Product name	Metakamm ActiVate	
Product dimensions	69 x 53 x 4 mm	

Leakage - 23 ± 2 °C / 40 bar



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **2**	Creation date of this sheet: **2023-09-08**

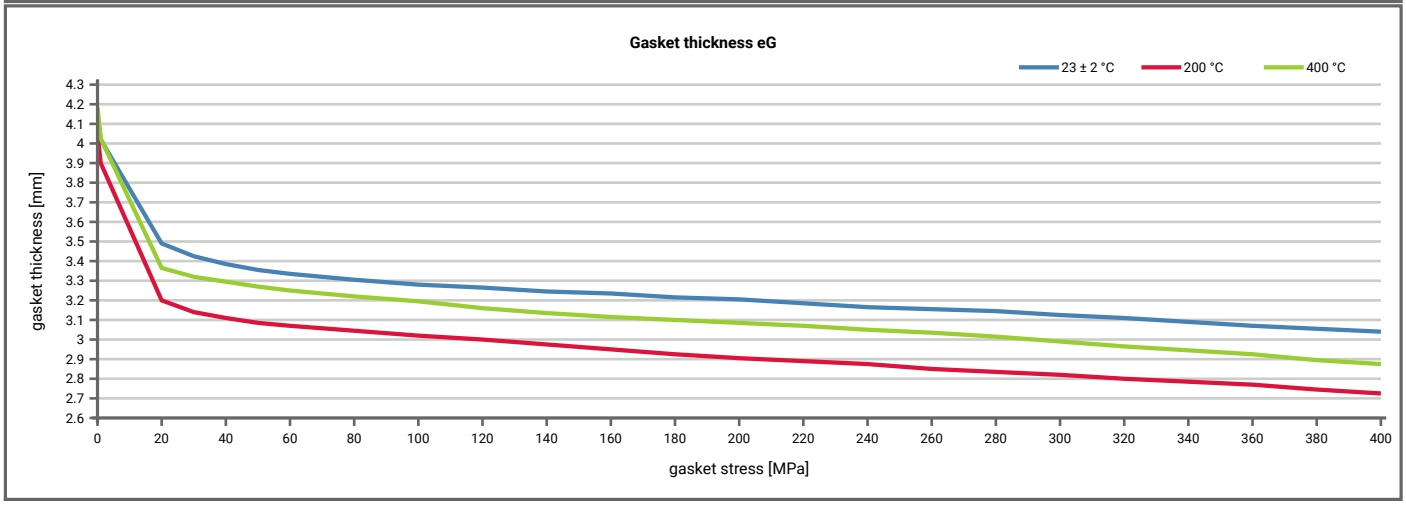
Manufacturer address	James Walker Moorflex Ltd, John Escritt Road, BD16 2BS West Yorkshire, GB	According to
Product name	Metakamm ActiVate	**EN 13555**
Product dimensions	69 x 53 x 4 mm	**2021-4**

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]	0.92	7	0.76	22	0.64	34				
Stress level 2 [90 MPa]	0.98	6	0.89	32	0.85	43				
Stress level 3 [200 MPa]	0.99	6	0.90	61	0.88	74				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.99	12	0.98	25	0.95	61				
Q_{smax}	400 MPa		400 MPa		400 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	4.150	0	4.050	0	4.185				
1	0	4.020	0	3.900	0	4.025				
20	2701	3.490	2222	3.200	2232	3.365				
30	3931	3.425	4811	3.140	3990	3.320				
40	4299	3.385	5341	3.110	4375	3.295				
50	6586	3.355	5633	3.085	5543	3.270				
60	6742	3.335	6424	3.070	6590	3.250				
80	8095	3.305	7648	3.045	9147	3.220				
100	9371	3.280	11610	3.020	9094	3.195				
120	11124	3.265	13817	3.000	8455	3.160				
140	12249	3.245	16002	2.975	10564	3.135				
160	13337	3.235	17185	2.950	13889	3.115				
180	14419	3.215	16135	2.925	12917	3.100				
200	14257	3.205	17872	2.905	15396	3.085				
220	14368	3.185	20213	2.890	16294	3.070				
240	15808	3.165	24682	2.875	18612	3.050				
260	18928	3.155	23922	2.850	21914	3.035				
280	24243	3.145	21695	2.835	18340	3.015				
300	23713	3.125	20147	2.820	17387	2.990				
320	23680	3.110	20971	2.800	17176	2.965				
340	21261	3.090	20307	2.785	17034	2.945				
360	19955	3.070	22140	2.770	18767	2.925				
380	21179	3.055	24130	2.745	18429	2.895				
400	24644	3.040	20351	2.725	17805	2.875				



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