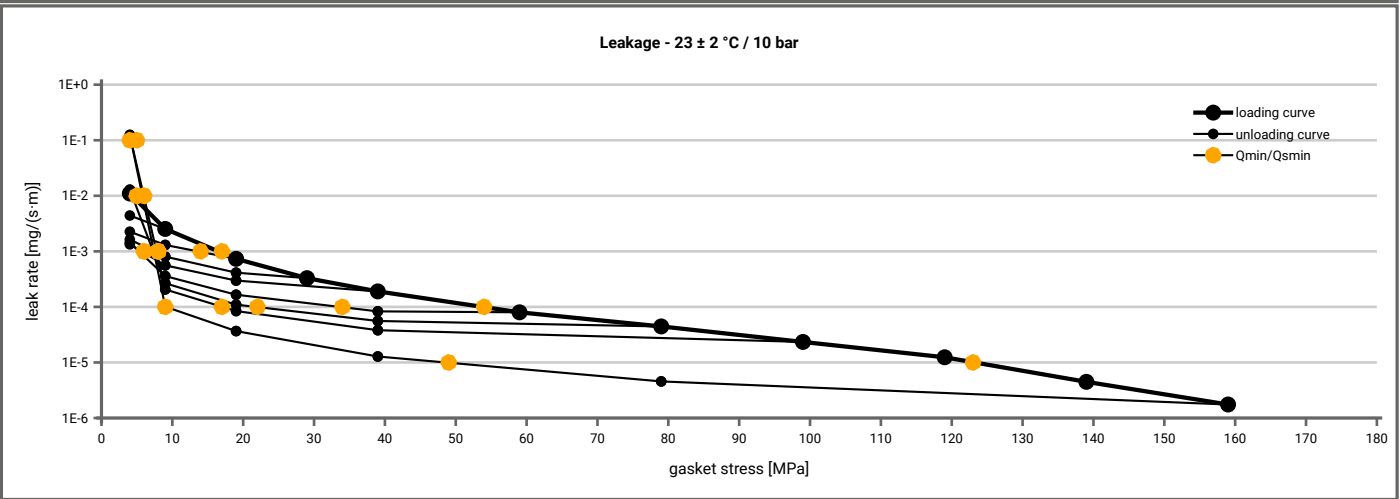
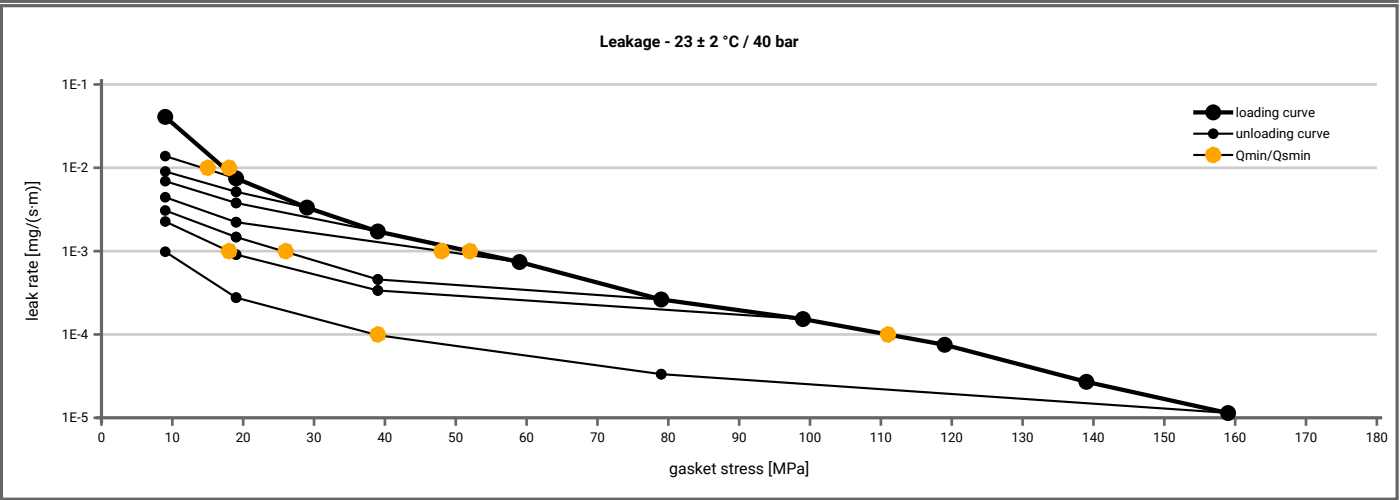


Manufacturer address	ERIKS - Leader Gasket, Toermalijnstraat 5, 1812 RL Alkmaar, NL	According to EN 13555 2021-4
Product name	LEADER Elastagraph (316SS Corrugated with graphite)	
Product dimensions	92 x 48 x 2.4 mm	

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]										
		$Q_A = 4.8$ [MPa]	$Q_A = 9.7$ [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]	$Q_A = 159$ [MPa]
1E-0	5		5	5	5	5	5	5	5			5
1E-1	5		5	5	5	5	5	5	5			5
1E-2	5		5	5	5	5	5	5	7			7
1E-3	17			14	8	6	6	8	9			8
1E-4	54						34	22	18			10
1E-5	124											49
1E-6												
1E-7												



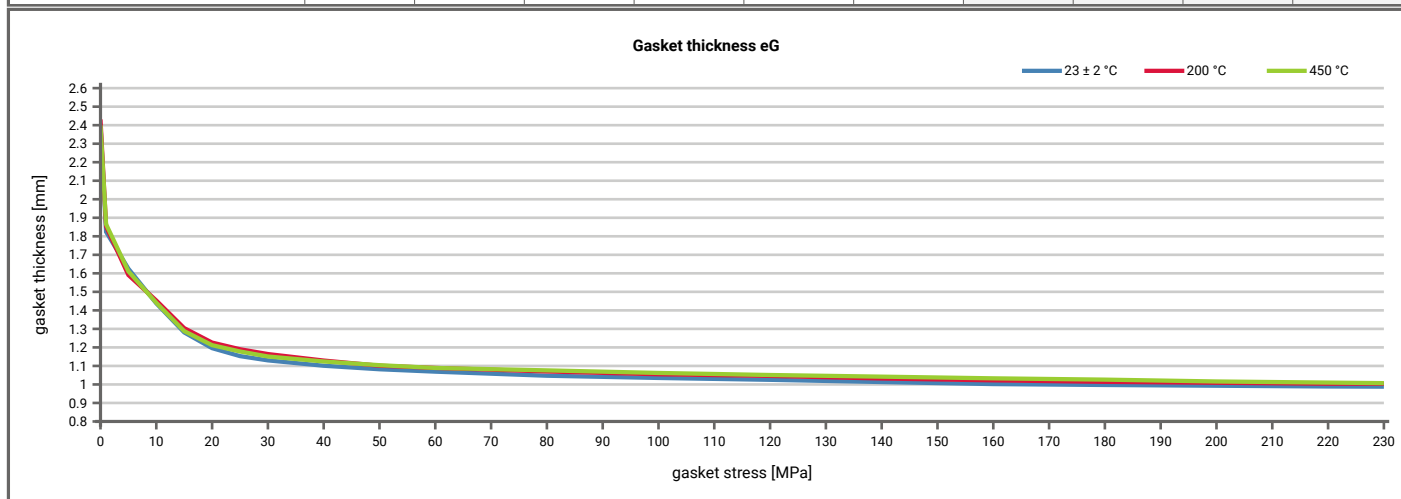
Minimum stress to seal $Q_{\min(L)}$ (at assembly), $Q_{s\min(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)											
L [mg/(s·m)]	$Q_{\min(L)}$ [MPa]	$Q_{s\min(L)}$ [MPa]									
		$Q_A = 9.7$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E-0	10		10	10	10	10	10	10			10
1E-1	10		10	10	10	10	10	10			10
1E-2	18		15	10	10	10	10	10			10
1E-3	53					49	26	19			10
1E-4	112										39
1E-5											
1E-6											
1E-7											



Manufacturer address	ERIKS - Leader Gasket, Toermalijnstraat 5, 1812 RL Alkmaar, NL	According to EN 13555 2021-4
Product name	LEADER Elastagraph (316SS Corrugated with graphite)	
Product dimensions	92 x 48 x 2.4 mm	

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]	0.98	5	0.93	18	0.90	27				
Stress level 2 [50 MPa]	0.99	4	0.98	11	0.93	32				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.99	20	1.00	0	0.99	29				
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	2.403	0	2.431	0	2.399				
1	0	1.824	0	1.853	0	1.865				
5	146	1.625	198	1.591	208	1.611				
10	291	1.438	350	1.453	346	1.441				
15	359	1.281	353	1.304	506	1.288				
20	535	1.196	575	1.226	621	1.212				
25	568	1.153	841	1.190	812	1.178				
30	804	1.130	1099	1.164	832	1.151				
40	1128	1.101	1226	1.129	1414	1.124				
50	1443	1.082	1331	1.101	1660	1.104				
60	1749	1.069	2387	1.089	2345	1.089				
80	2559	1.047	3730	1.070	5221	1.076				
100	4368	1.035	4115	1.055	5320	1.062				
120	5400	1.025	7680	1.046	5577	1.051				
140	4783	1.013	6070	1.032	7508	1.042				
160	4441	1.002	5583	1.022	8116	1.033				
180	5725	0.997	6008	1.014	8015	1.026				
200	7069	0.993	6997	1.009	6810	1.016				
220	10147	0.989	10229	1.004	6439	1.010				
230	11685	0.988	13836	1.004	6583	1.007				



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2026-06-10
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