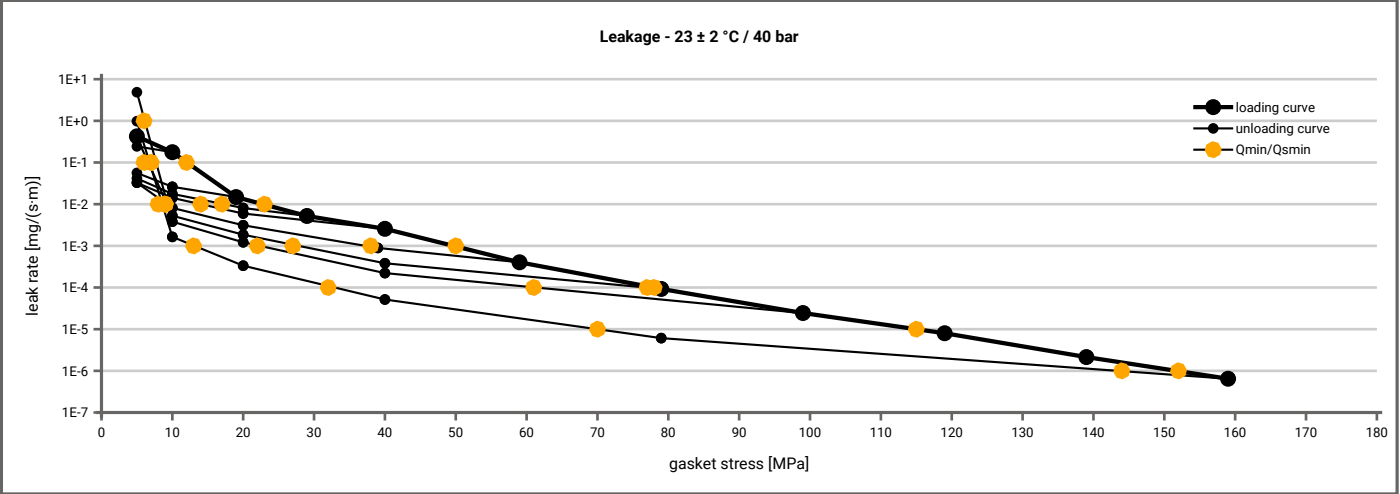


Manufacturer address	ERIKS - Leader Gasket, Toermalijnstraat 5, 1812 RL Alkmaar, NL	According to EN 13555 2021-4
Product name	LEADER LG-413	
Product dimensions	74 x 53 x 4.8 mm	

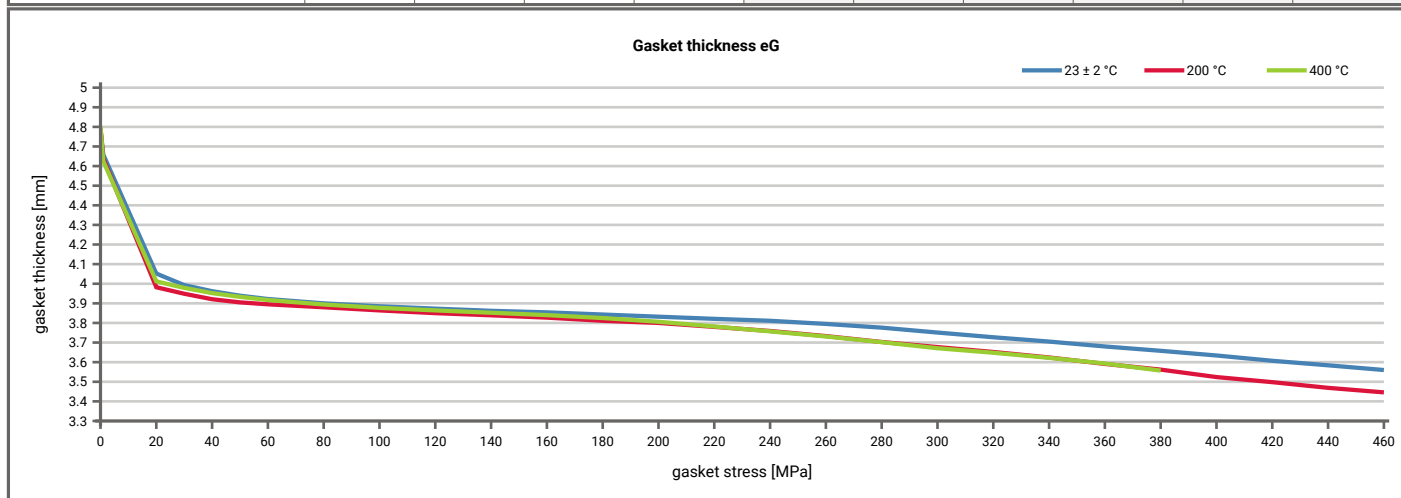
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E+1	5		5	5	5	5	5	5	5			5
1E-0	5		5	5	5	5	5	5	6			5
1E-1	12			5	5	5	5	7	8			7
1E-2	24				17	14	9	9	10			9
1E-3	50						38	28	22			13
1E-4	79							77	62			33
1E-5	116											71
1E-6	152											144
1E-7												



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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 [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 [70 MPa]	0.99	4	0.99	3	0.99	4				
Stress level 2 [150 MPa]	1.00	0	0.99	6	1.00	3				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.99	19	0.97	67	0.94	103				
Q_{smax}	460 MPa		460 MPa		380 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	4.787	0	4.793	0	4.803				
1	0	4.659	0	4.638	0	4.625				
20	4799	4.052	7429	3.982	3320	4.012				
30	4491	3.993	8056	3.949	5312	3.979				
40	5478	3.962	6887	3.921	5200	3.952				
50	5837	3.939	9208	3.905	6676	3.933				
60	7322	3.922	11573	3.895	7739	3.917				
80	10162	3.900	13620	3.880	9135	3.894				
100	13339	3.885	12711	3.864	10252	3.877				
120	14420	3.873	14466	3.850	13985	3.864				
140	15961	3.862	16639	3.839	17705	3.852				
160	18098	3.854	19115	3.827	22073	3.840				
180	19853	3.843	20029	3.811	23443	3.825				
200	19780	3.832	28802	3.800	24002	3.806				
220	23200	3.821	24111	3.780	20361	3.782				
240	33164	3.811	31729	3.759	20982	3.757				
260	30312	3.795	32003	3.733	24114	3.731				
280	28539	3.776	29028	3.703	22091	3.702				
300	23007	3.751	31009	3.677	22026	3.671				
320	24273	3.727	38629	3.652	28932	3.648				
340	28643	3.705	32310	3.624	26541	3.622				
360	30187	3.680	30395	3.591	25028	3.593				
380	29906	3.658	36024	3.562	24276	3.557				
400	30503	3.634	27785	3.524						
420	26651	3.607	31615	3.498						
440	31113	3.584	32027	3.469						
460	31991	3.560	29739	3.446						



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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