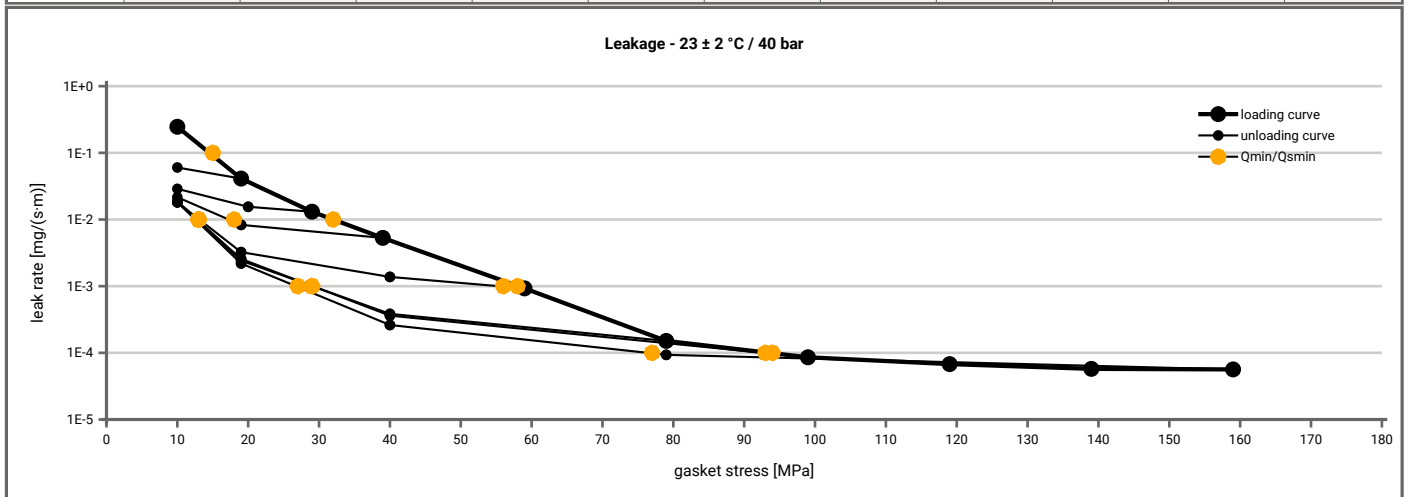


Manufacturer address	Leader Gasket Technologies s.r.o, Pšurnovická ulica 1026, 014 01 Bytca, SK	According to DIN EN 13555 2005-2
Product name	LG13 - IR	
Product dimensions	69 x 55 x 4.8 mm (DIN EN 1514-2 2014-8)	

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]	$Q_A = 30$ [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	10		10	10	10	10	10	10			10
1E-1	15		10	10	10	10	10	10			10
1E-2	33				18	14	13	13			13
1E-3	59					56	30	30			27
1E-4	94							93			77
1E-5											
1E-6											
1E-7											
1E-8											



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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]	0.97	6	0.86	28	0.85	29				
Stress level 2 [150 MPa]	0.99	4	0.86	57	0.89	47				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.99	5	0.98	11	0.95	27				
Q_{smax}	200 MPa		200 MPa		200 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	4.807	0	4.831	0	4.822				
1	0	4.786	0	4.787	0	4.790				
20	1284	4.500	1690	4.493	1396	4.483				
30	1875	4.396	2188	4.414	2453	4.428				
40	2535	4.307	2850	4.332	3213	4.360				
50	2870	4.213	3673	4.251	3686	4.274				
60	3143	4.126	4229	4.171	4258	4.185				
80	3436	3.848	5295	3.920	4888	3.931				
100	3931	3.581	5151	3.682	6508	3.670				
120	4871	3.405	5373	3.511	7169	3.538				
140	5596	3.272	7617	3.394	7369	3.432				
160	7407	3.183	8302	3.308	8962	3.357				
180	9277	3.150	10288	3.234	10090	3.296				
200	11871	3.138	11967	3.178	12041	3.244				

