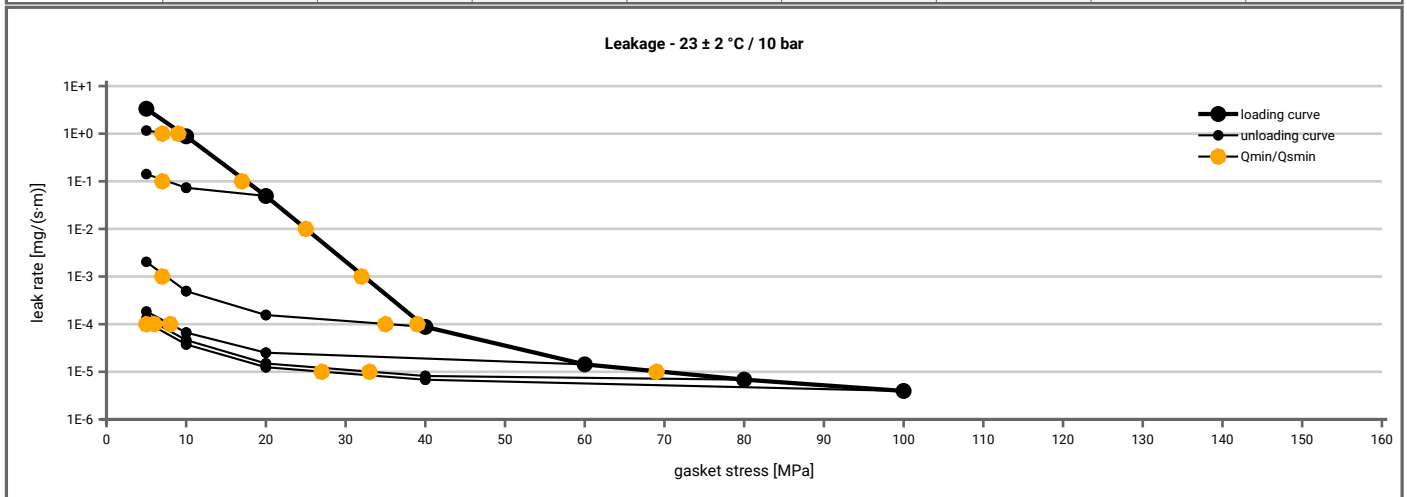
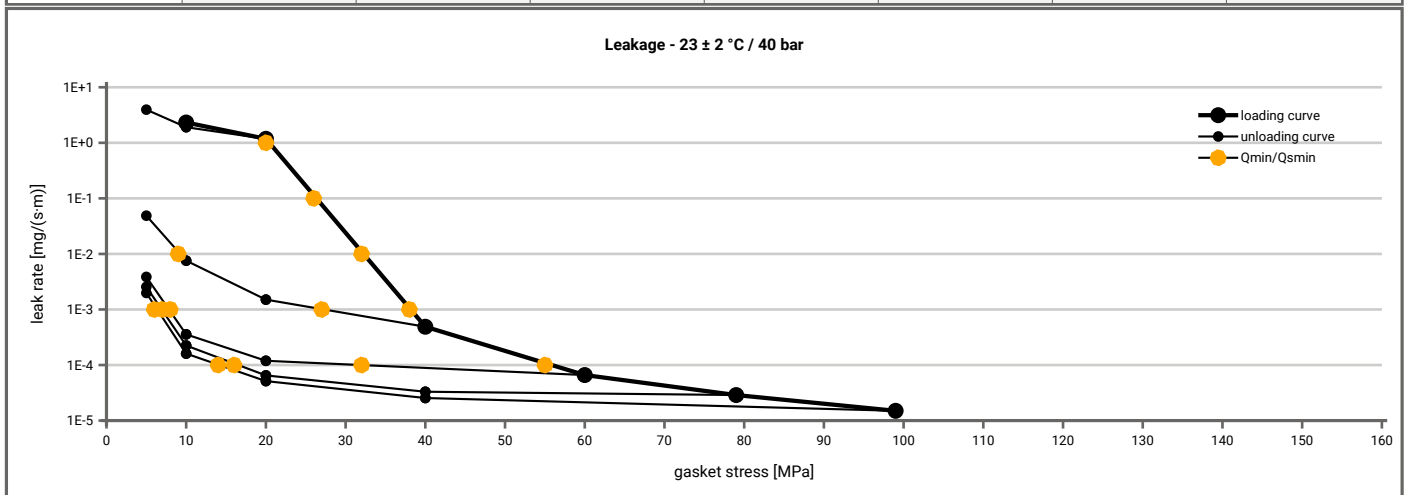


Manufacturer address	Leader Gasket Technologies s.r.o, Pšurnovická ulica 1026, 014 01 Bytca, SK	According to EN 13555 2021-4
Product name	Clipperlon 2100	
Product dimensions	92 x 49 x 3 mm	

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]						
		$Q_A = 5$ [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]
1E+1	5		5	5	5	5	5	5
1E-0	10		8	5	5	5	5	5
1E-1	18			8	5	5	5	5
1E-2	25				5	5	5	5
1E-3	32				8	5	5	5
1E-4	40				35	8	6	5
1E-5	70						33	27
1E-6								
1E-7								
1E-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]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	
1E+1	10		5	5	5	5	5	
1E-0	21			5	5	5	5	
1E-1	26			5	5	5	5	
1E-2	32			9	5	5	5	
1E-3	38			27	8	7	7	
1E-4	56				32	17	14	
1E-5								
1E-6								
1E-7								
1E-8								



Note: the content of darkened cells was not determined respectively is unnecessary Rev.-No.: 1 Creation date of this sheet: 2021-05-19

Manufacturer address	Leader Gasket Technologies s.r.o, Pšurnovická ulica 1026, 014 01 Bytca, SK	According to EN 13555 2021-4
Product name	Clipperlon 2100	
Product dimensions	92 x 49 x 3 mm	

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 [10 MPa]	0.94	5	0.81	16	0.74	22				
Stress level 2 [30 MPa]	0.93	18	0.68	82	0.51	123				
Stress level 3 [50 MPa]	0.94	25	0.59	172	0.43	241				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.91	112	0.59	344	0.44	329				
Q_{smax}	140 MPa		100 MPa		70 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	2.965	0	2.945	0	2.905				
1	0	2.965	0	2.945	0	2.905				
20	2429	2.837	1150	2.674	866	2.524				
30	2356	2.774	1377	2.452	999	2.293				
40	2566	2.706	1701	2.263	1191	2.126				
50	2950	2.642	1955	2.119	1365	1.992				
60	3461	2.571	2218	1.998	1564	1.878				
70	4118	2.477	2385	1.892	1857	1.708				
80	4607	2.371	2661	1.801						
90	4821	2.277	2766	1.718						
100	4952	2.196	2931	1.643						
120	5859	2.081								
140	6210	1.975								

