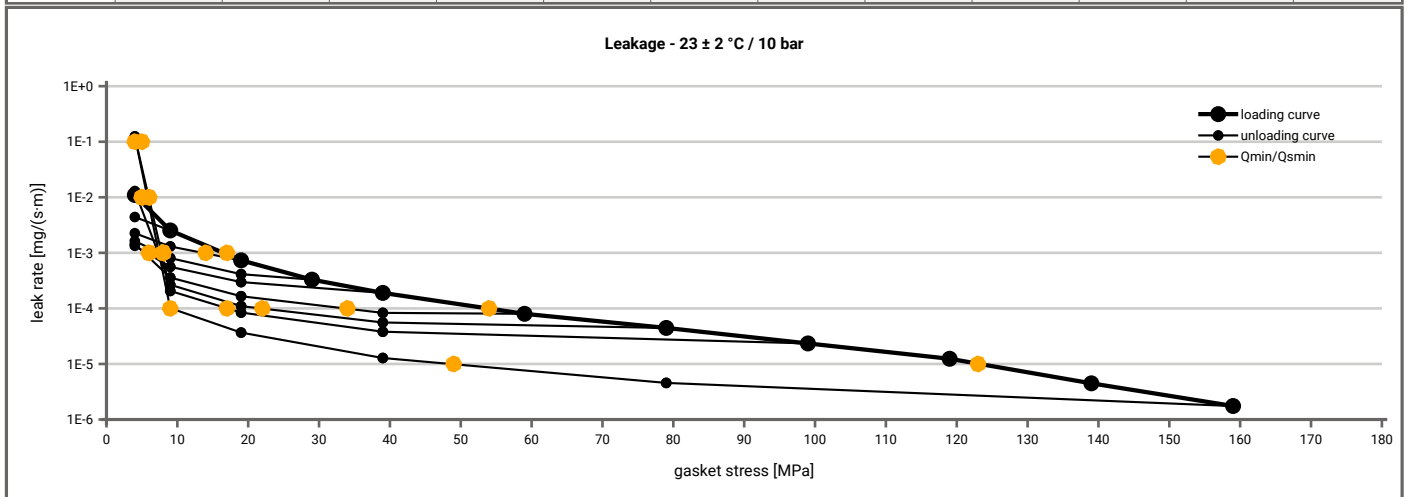
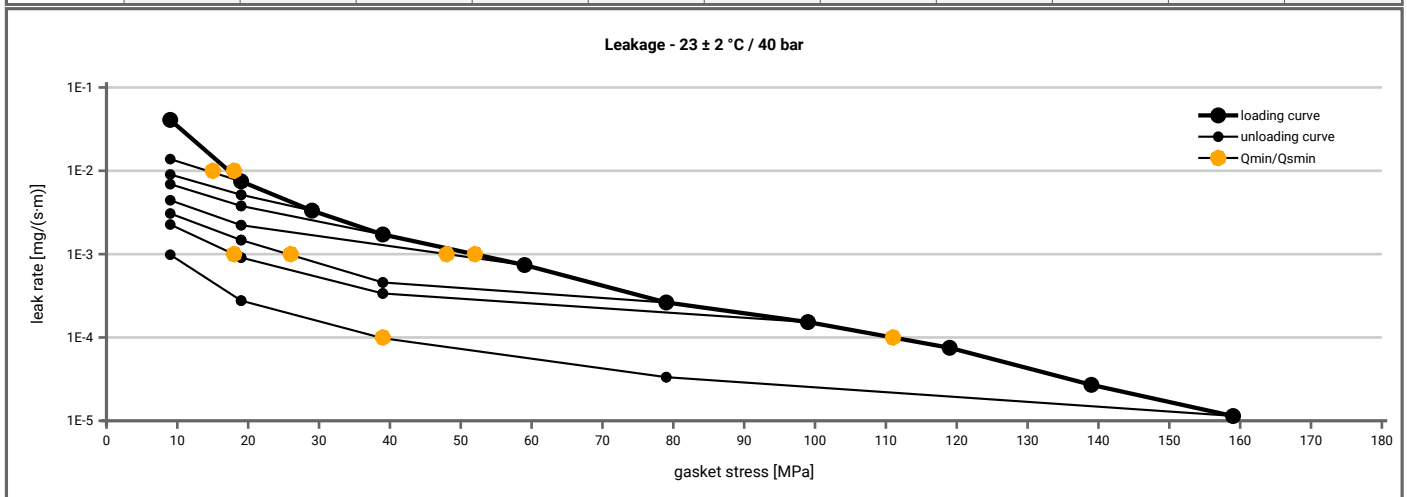


<b>Manufacturer address</b>	Leader Gasket Technologies s.r.o, Pšurnovická ulica 1026, 014 01 Bytca, SK	According to <b>DIN EN 13555</b> <b>2005-2</b>
<b>Product name</b>	Elastagraph 316SS corrugated with graphite	
<b>Product dimensions</b>	92 x 48 x 2.4 mm (DIN EN 1514-4 1997-8)	

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												
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]										
		$Q_A = 9.7$ [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			10
1E-1	10		10	10	10	10	10	10	10			10
1E-2	18		15	10	10	10	10	10	10			10
1E-3	53					49	26	19				10
1E-4	112											39
1E-5												
1E-6												
1E-7												
1E-8												



Note: the content of darkened cells was not determined respectively is unnecessary      Rev.-No.: 2      Creation date of this sheet: 2014-07-04

<b>Manufacturer address</b>	Leader Gasket Technologies s.r.o, Pšurnovická ulica 1026, 014 01 Bytca, SK	According to <b>DIN EN 13555</b> <b>2005-2</b>
<b>Product name</b>	Elastagraph 316SS corrugated with graphite	
<b>Product dimensions</b>	92 x 48 x 2.4 mm (DIN EN 1514-4 1997-8)	

Relaxation ratio $P_{QR}$ for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [200 °C]		Temperature 2 [450 °C]		$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]
	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [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 $\Delta e_{Gc}$ 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				

