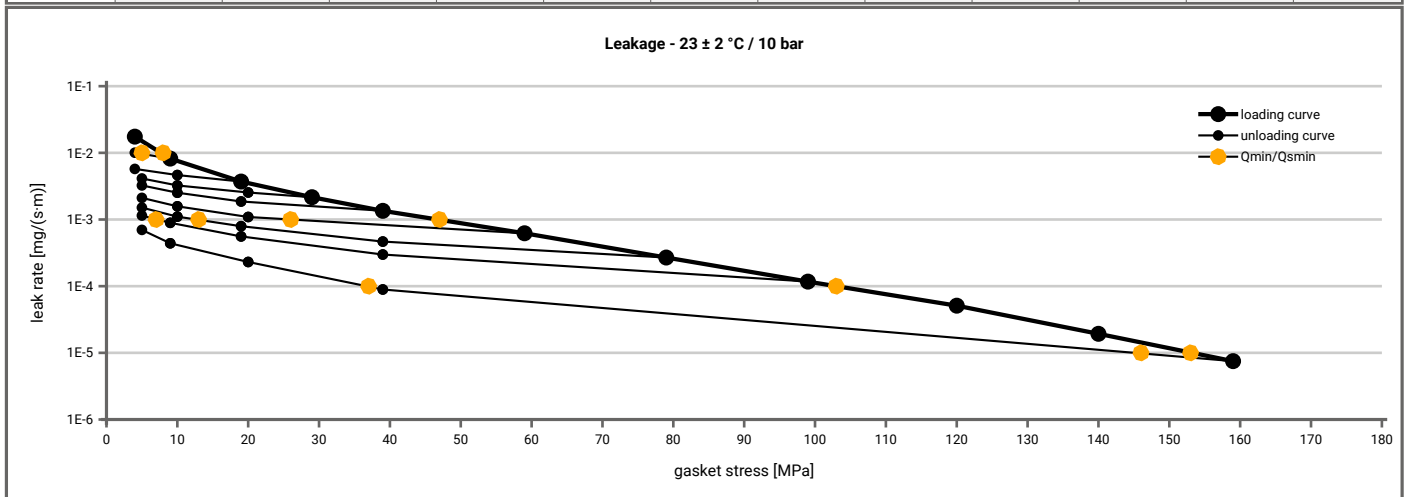
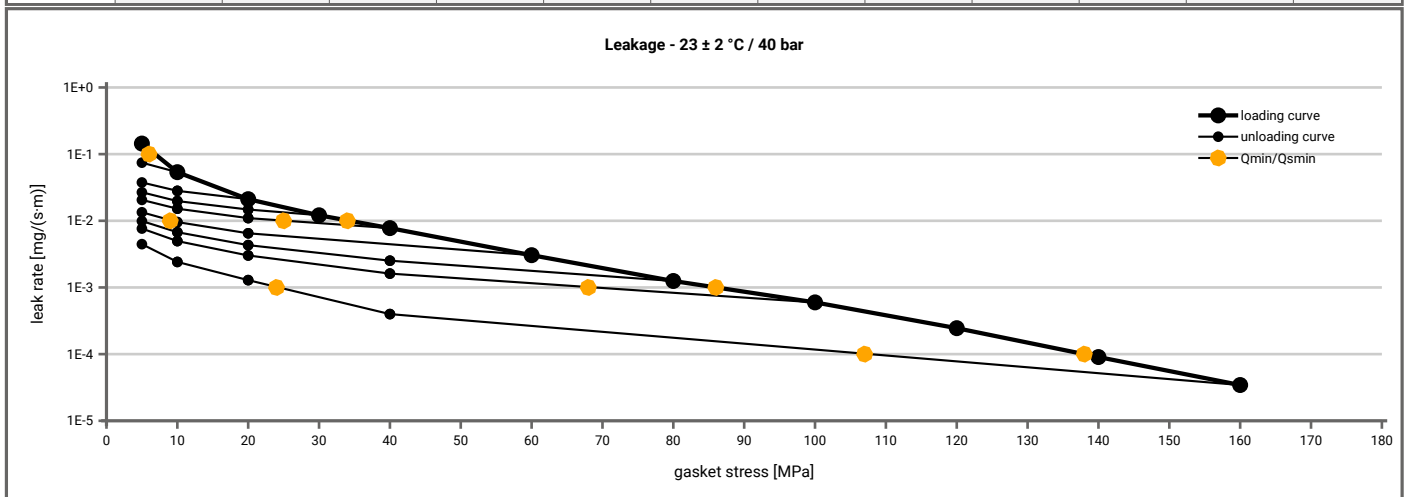


<b>Manufacturer address</b>	SGL Carbon GmbH, Werner-von-Siemens-Straße 16, 86405 Meitingen, DE	According to <b>DIN EN 13555</b> 2014-7
<b>Product name</b>	Sigraflex Economy V07510C4	
<b>Product dimensions</b>	92 x 49 x 0.75 mm (DIN EN 1514-1 1997-8)	

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]										
		$Q_A = 5$ [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-0	5		5	5	5	5	5	5	5			5
1E-1	5		5	5	5	5	5	5	5			5
1E-2	9		5	5	5	5	5	5	5			5
1E-3	48							26	13	8		5
1E-4	104											37
1E-5	154											146
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]										
		$Q_A = 5$ [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-0	5		5	5	5	5	5	5	5			5
1E-1	7		5	5	5	5	5	5	5			5
1E-2	34					25	9	5	5			5
1E-3	86								69			24
1E-4	138											108
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: 2015-04-02

<b>Manufacturer address</b>	SGL Carbon GmbH, Werner-von-Siemens-Straße 16, 86405 Meitingen, DE	According to <b>DIN EN 13555</b> <b>2014-7</b>
<b>Product name</b>	Sigraflex Economy V07510C4	
<b>Product dimensions</b>	92 x 49 x 0.75 mm (DIN EN 1514-1 1997-8)	

Relaxation ratio $P_{QR}$ for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [300 °C]		Temperature 3 [400 °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]	1.00	0	0.96	11	0.95	14	0.94	16		
Stress level 2 [50 MPa]	1.00	0	0.97	13	0.95	21	0.97	13		
$P_{QR}$ and $\Delta e_{Gc}$ at maximum gasket stress to be applied $Q_{smax}$										
$P_{QR}$ at $Q_{smax}$	1.00	0	0.99	17	0.99	17	0.99	25		
$Q_{smax}$	200 MPa		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 [150 °C]		Temperature 2 [300 °C]		Temperature 3 [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	0.779	0	0.784	0	0.780	0	0.768		
1	0	0.784	0	0.783	0	0.799	0	0.752		
20	504	0.505	554	0.495	623	0.501	585	0.484		
30	794	0.480	718	0.470	876	0.478	749	0.454		
40	760	0.460	878	0.452	1353	0.463	2796	0.441		
50	1185	0.447	1228	0.440	1869	0.452	2627	0.431		
60	1599	0.438	1580	0.430	2004	0.443	1862	0.418		
80	3678	0.427	2952	0.418	2794	0.429	12735	0.408		
100	4043	0.417	2631	0.406	4298	0.417	3377	0.396		
120	4131	0.409	3119	0.399	4350	0.410	5138	0.388		
140	7332	0.406	7950	0.395	7213	0.406	10711	0.384		
160	13373	0.403	9844	0.390	10397	0.401	52974	0.378		
180	26277	0.401	22151	0.388	6625	0.396	40749	0.372		
200	30056	0.400	22066	0.386	7196	0.392	250453	0.367		

