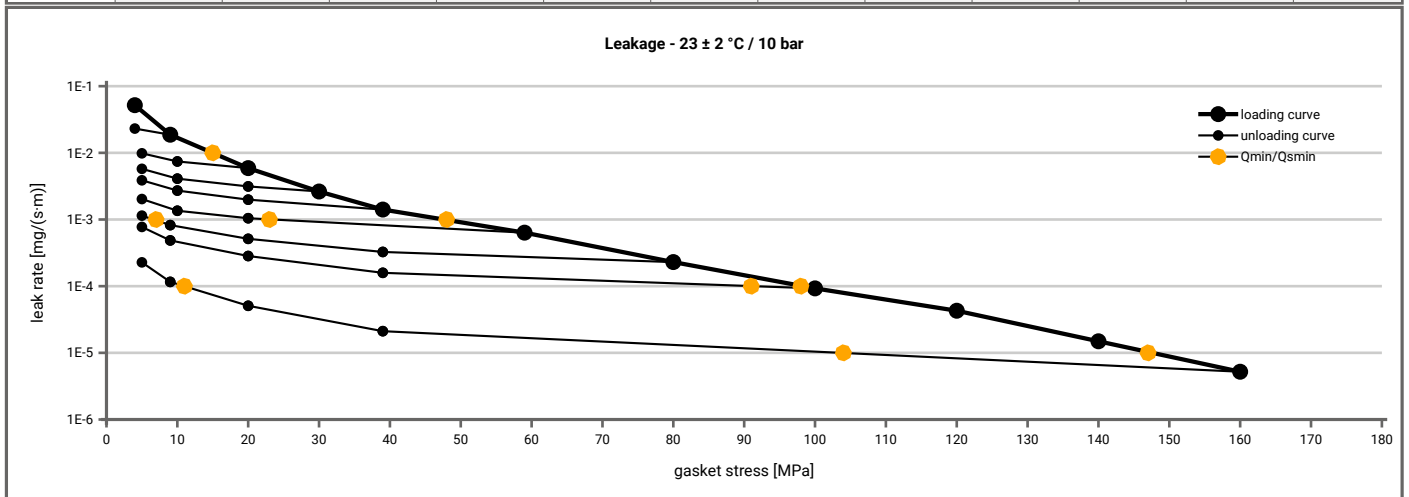
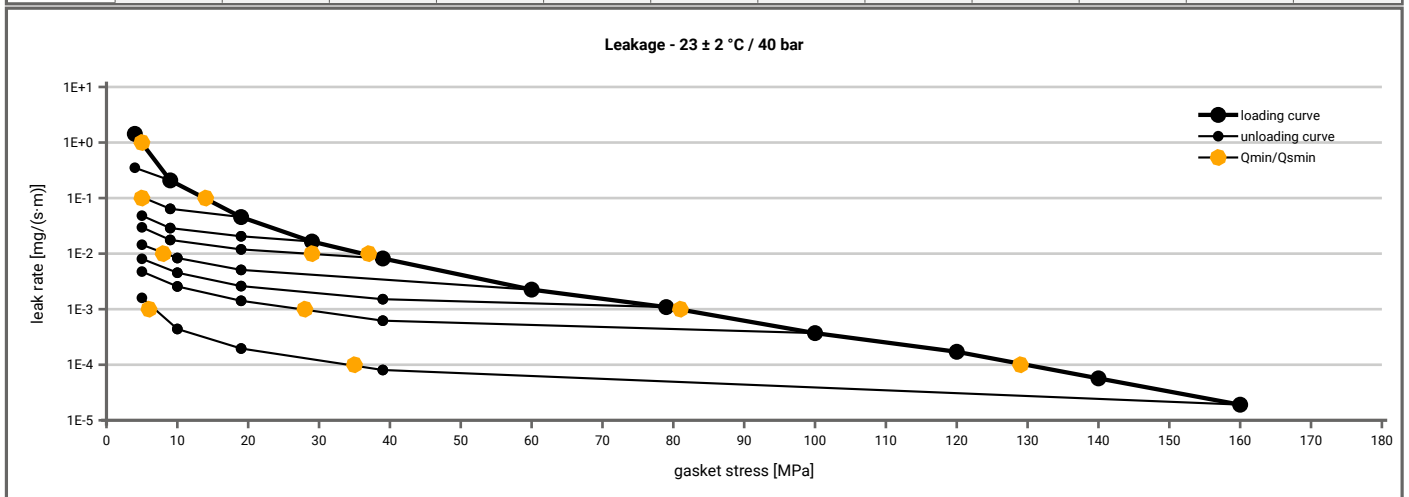


<b>Manufacturer address</b>	SGL Carbon GmbH, Werner-von-Siemens-Straße 16, 86405 Meitingen, DE	According to <b>DIN EN 13555</b> <b>2014-7</b>
<b>Product name</b>	Sigraflex Universal V15010C2I	
<b>Product dimensions</b>	92 x 49 x 1.5 mm (DIN EN 1514-1 1997-8)	

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	15			5	5	5	5	5	5			5
1E-3	49							24	7	5		5
1E-4	98								91			12
1E-5	148											104
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+1	5		5	5	5	5	5	5	5			5
1E-0	6		5	5	5	5	5	5	5			5
1E-1	15			5	5	5	5	5	5			5
1E-2	37					29	8	5	5			5
1E-3	82							28				7
1E-4	130											35
1E-5												
1E-6												
1E-7												
1E-8												



Note: the content of darkened cells was not determined respectively is unnecessary

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<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 Universal V15010C2I	
<b>Product dimensions</b>	92 x 49 x 1.5 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]	0.98	6	0.88	31	0.84	42	0.82	47		
Stress level 2 [50 MPa]	0.99	6	0.94	25	0.91	40	0.91	38		
$P_{QR}$ and $\Delta e_{Gc}$ at maximum gasket stress to be applied $Q_{smax}$										
$P_{QR}$ at $Q_{smax}$	1.00	0	0.98	34	0.98	34	0.98	42		
$Q_{smax}$	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	1.641	0	1.591	0	1.619	0	1.631		
1	0	1.555	0	1.527	0	1.547	0	1.528		
5	147	1.452	230	1.411	168	1.392	428	1.427		
10	230	1.330	283	1.274	214	1.236	378	1.267		
15	311	1.198	388	1.147	346	1.110	381	1.121		
20	482	1.119	450	1.064	562	1.034	534	1.046		
30	945	1.021	700	0.976	720	0.948	1002	0.970		
40	1060	0.969	1438	0.937	1196	0.908	1254	0.927		
50	1608	0.937	1259	0.906	1379	0.877	2294	0.905		
60	1890	0.910	1496	0.880	1942	0.855	2425	0.884		
80	2873	0.875	4408	0.857	2386	0.822	2479	0.851		
100	6332	0.859	6389	0.843	2969	0.801	3084	0.829		
120	6691	0.843	3224	0.820	4247	0.783	3644	0.811		
140	6393	0.829	3703	0.805	10697	0.771	4107	0.796		
160	6889	0.817	5960	0.793	5824	0.760	3913	0.784		
180	8892	0.808	9254	0.787	4765	0.748	5034	0.773		
200	12708	0.801	13239	0.780	5409	0.740	5386	0.764		

