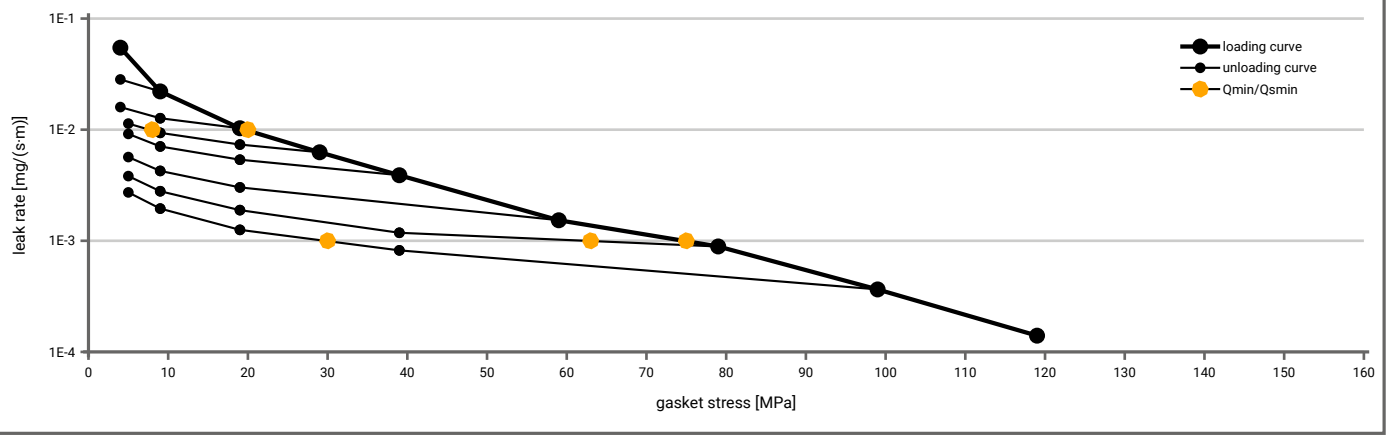
Manufacturer address	SGL Carbon GmbH, Werner-von-Siemens-Straße 16, 86405 Meitingen, DE	According to
Product name	Sigraflex Standard L20010CI	**DIN EN 13555**
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	**2014-7**

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 10 bar (T = 23 ± 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]
1E-0	5		5	5	5	5	5	5	5	
1E-1	5		5	5	5	5	5	5	5	
1E-2	20				8	5	5	5	5	
1E-3	75							63	30	
1E-4										
1E-5										
1E-6										
1E-7										
1E-8										

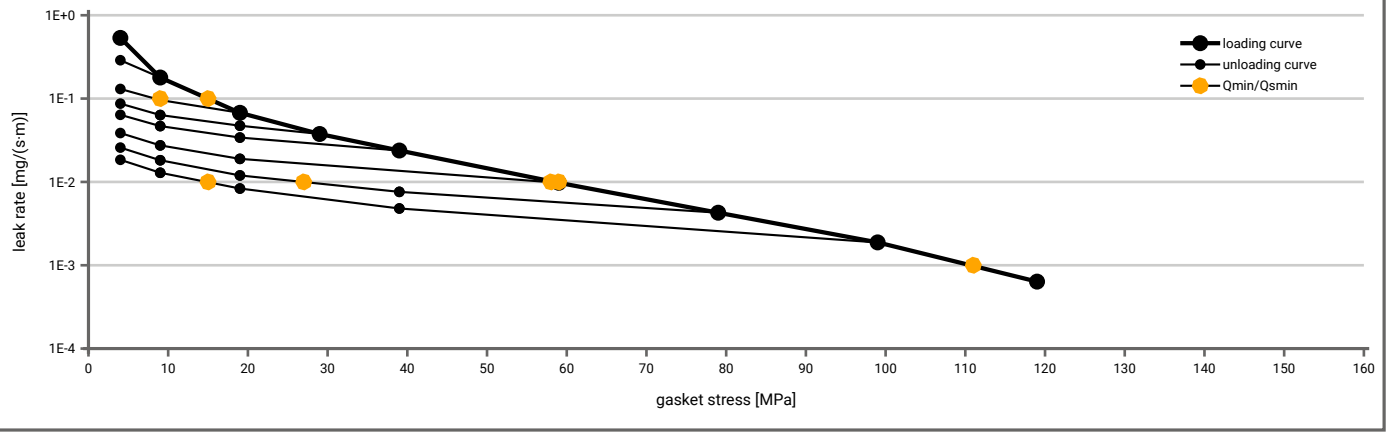
Leakage - 23 ± 2 °C / 10 bar



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		Q_A = 5 [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]
1E-0	5		5	5	5	5	5	5	5	
1E-1	16			9	5	5	5	5	5	
1E-2	59						58	28	16	
1E-3	111									
1E-4										
1E-5										
1E-6										
1E-7										
1E-8										

Leakage - 23 ± 2 °C / 40 bar



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **2**	Creation date of this sheet: **2017-01-25**

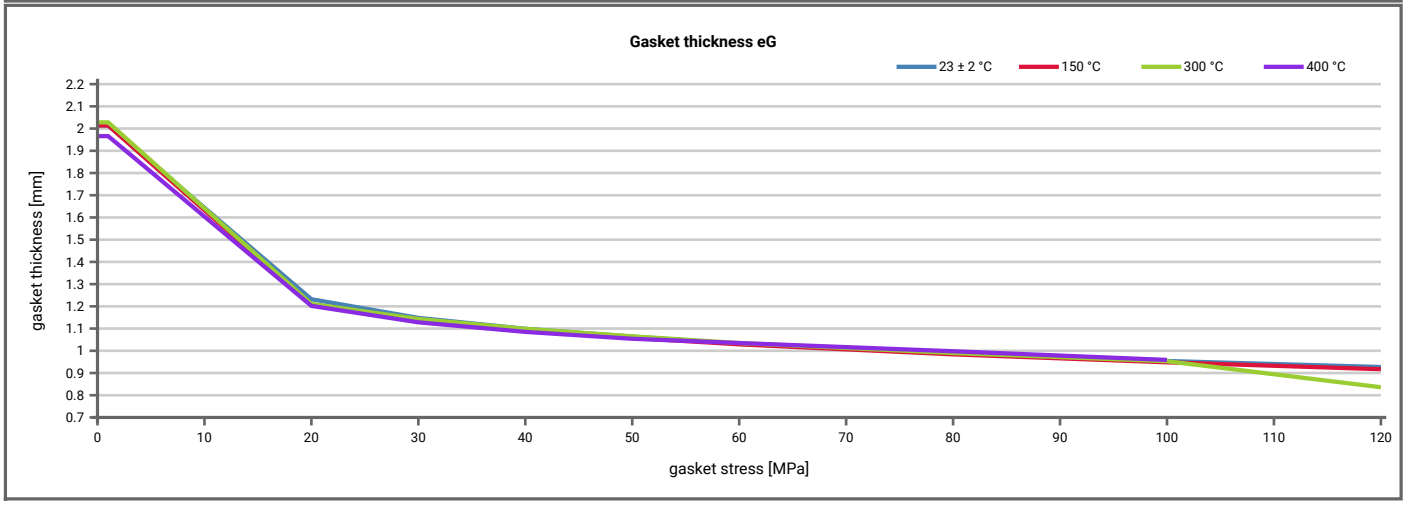
Manufacturer address	SGL Carbon GmbH, Werner-von-Siemens-Straße 16, 86405 Meitingen, DE	According to **DIN EN 13555 2014-7**
Product name	Sigraflex Standard L20010CI	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

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}	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 [30 MPa]	0.97	9	0.92	20	0.88	30	0.90	26		
Stress level 2 [50 MPa]	0.98	8	0.95	21	0.94	27	0.93	31		
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.99	10	0.98	20	0.97	30	0.97	25		
Q_{smax}	120 MPa		120 MPa		120 MPa		100 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	2.014	0	2.014	0	2.028	0	1.966		
1	0	2.014	0	2.014	0	2.028	0	1.966		
20	336	1.232	361	1.208	468	1.211	485	1.202		
30	542	1.148	570	1.141	554	1.143	683	1.128		
40	743	1.099	823	1.095	878	1.099	1063	1.085		
50	983	1.064	980	1.058	1136	1.065	1684	1.054		
60	1023	1.031	1164	1.029	1223	1.035	2353	1.035		
80	1598	0.988	1478	0.984	1651	0.990	2492	0.998		
100	1930	0.954	1831	0.948	1932	0.953	2301	0.959		
120	2507	0.927	2082	0.917	1860	0.836				



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **2**	Creation date of this sheet: **2017-01-25**