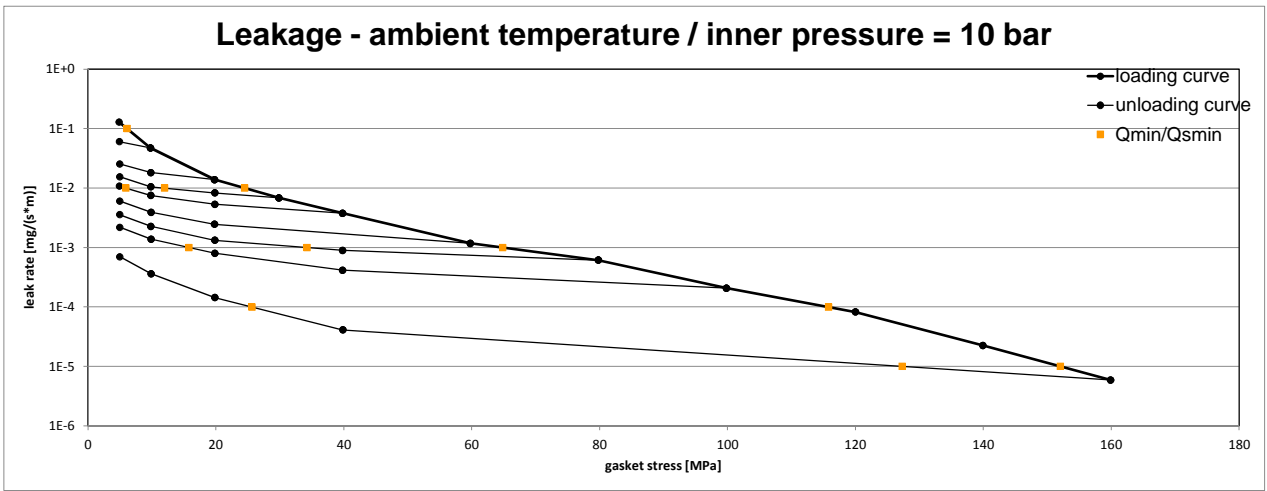
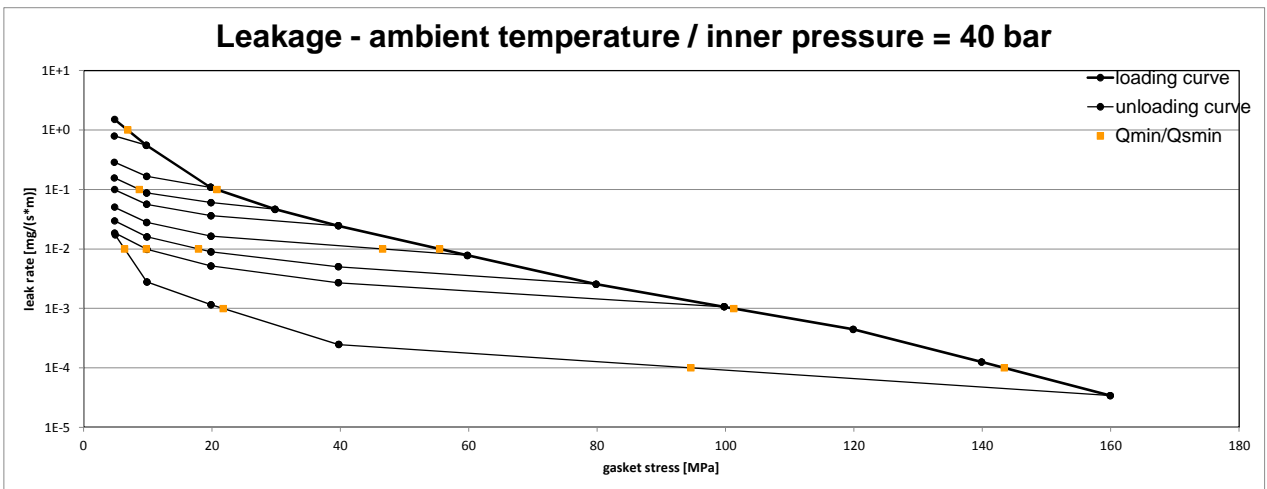


Company Address	SGL Group - The Carbon Company, Werner-von-Siemens-Str. 18, 86405 Meitingen, Germany
Gasket Type	Sigraflex Universal V30010C2I
Sealing element dimensions [mm]	92 x 49 x 3

L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 10 bar									
		Q _{Smin/L} [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
10 ⁰	5	5	5	5	5	5	5	5			5
10 ⁻¹	6	5	5	5	5	5	5	5			5
10 ⁻²	24			12	6	5	5	5			5
10 ⁻³	65					5	34	16			5
10 ⁻⁴	116										26
10 ⁻⁵	152										127



L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 40 bar									
		Q _{Smin/L} [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
10 ⁰	7	5	5	5	5	5	5	5			5
10 ⁻¹	21			9	5	5	5	5			5
10 ⁻²	55					47	18	10			6
10 ⁻³	101										22
10 ⁻⁴	143										95



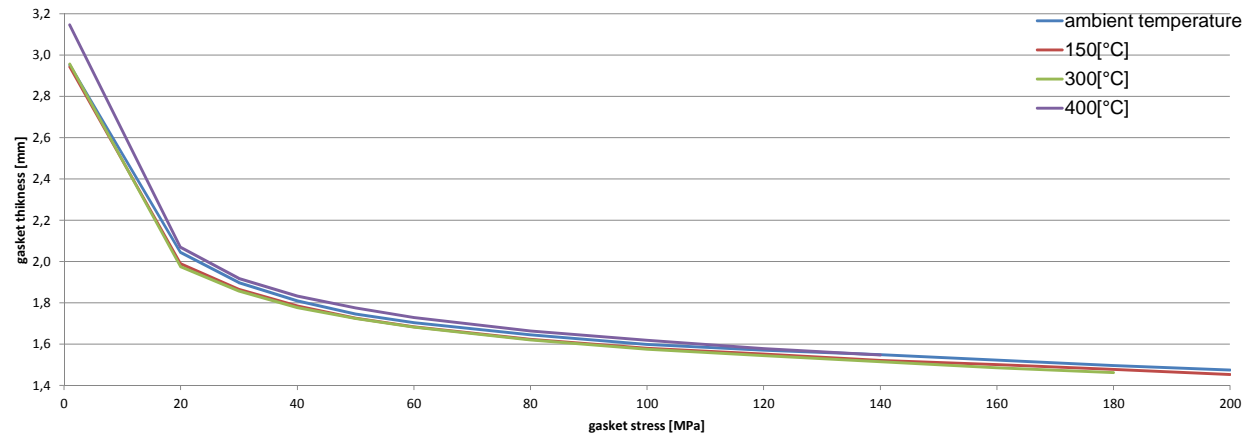
Company Address	SGL Group - The Carbon Company, Werner-von-Siemens-Str. 18, 86405 Meitingen, Germany
Gasket Type	Sigraflex Universal V30010C2I
Sealing element dimensions [mm]	92 x 49 x 3

Relaxation ratio P_{GR} for stiffness $C = 500$ kN/mm					
Gasket stress [MPa]	temperature 1 [25 °C]	temperature 2 [150 °C]	temperature 3 [300 °C]	temperature 4 [400 °C]	
Stress level 1 [30 MPa]	0,99	0,90	0,85	0,88	
Stress level 2 [50 MPa]	0,99	0,94	0,91	0,92	
PQR at Q_{Smax}	1,00 at 200 MPa	0,98 at 200 MPa	0,97 at 180 MPa	0,99 at 140 MPa	

Maximal applicable gasket stress Q_{Smax}				
Q_{Smax} [MPa] [25 °C]	Q_{Smax} [MPa] – temperature 1 [150 °C]	Q_{Smax} [MPa] – temperature 2 [300 °C]	Q_{Smax} [MPa] – temperature 3 [400 °C]	
200	200	180	140	

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	ambient temperature		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]		
0		3,076		3,074		3,076		3,288		
1		2,952		2,943		2,958		3,146		
20	472	2,043	578	1,990	725	1,976	510	2,069		
30	841	1,897	812	1,865	807	1,858	797	1,918		
40	1091	1,810	1158	1,786	1079	1,777	1097	1,832		
50	1209	1,747	1331	1,725	1611	1,725	1372	1,775		
60	1868	1,705	1897	1,685	1853	1,683	1666	1,730		
80	2739	1,645	2449	1,624	2474	1,620	2404	1,664		
100	3120	1,599	3312	1,580	3128	1,576	3557	1,620		
120	5335	1,572	4955	1,552	4368	1,545	3762	1,579		
140	7150	1,549	4888	1,522	5366	1,516	4530	1,547		
160	5940	1,523	6557	1,502	5262	1,487				
180	5597	1,496	8242	1,479	9662	1,462				
200	7364	1,476	7848	1,454						

Gasket thickness e_G



Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 1 Creation date of this sheet: 17.02.2014