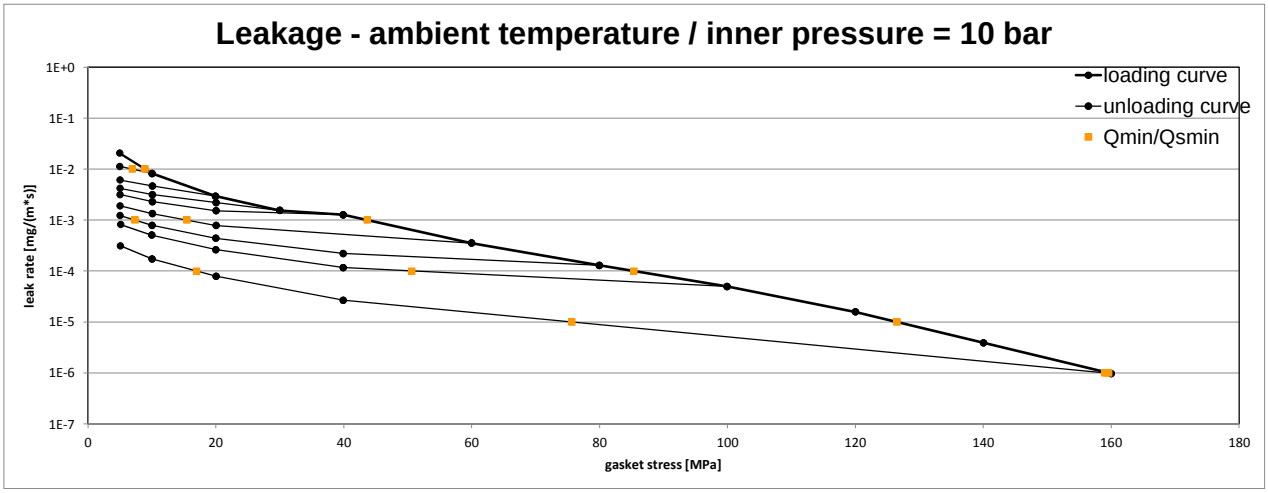
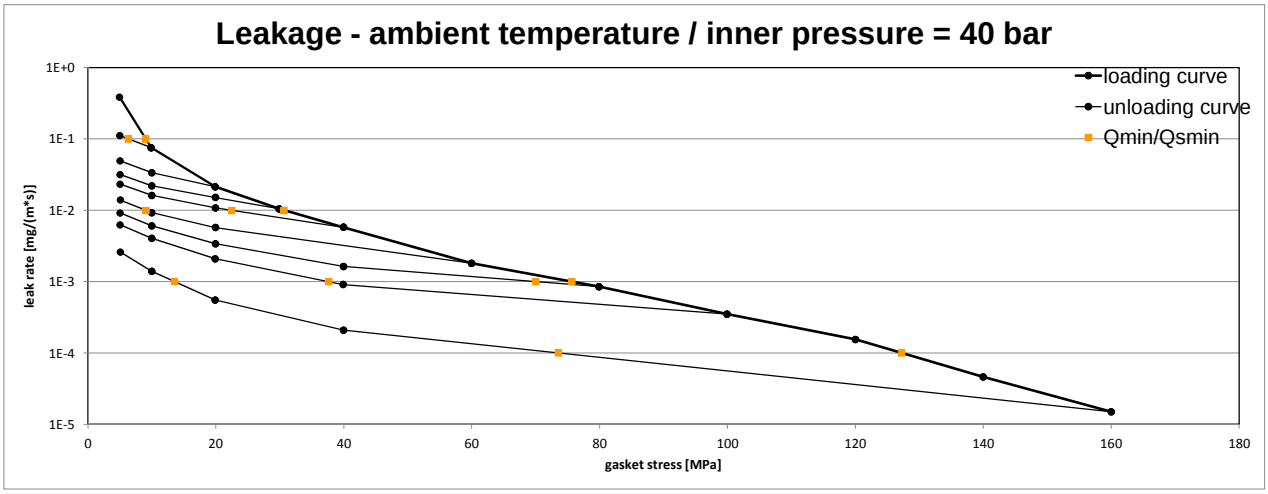
Company Address	*SGL Group - The Carbon Company, Werner-von-Siemens-Str. 18, 86405 Meitingen, Germany*
Gasket Type	*Sigraflex Hochdruck V30011Z3I*
Sealing element dimensions [mm]	*92 x 49 x 3*

L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $\mathbf{Q_{min/L}}$ (at assembly), $\mathbf{Q_{Smin/L}}$ (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}	5	5	5	5	5	5	5	5			5
10^{-2}	9	7	5	5	5	5	5	5			5
10^{-3}	44					15	7	5			5
10^{-4}	85							51			17
10^{-5}	126										76
10^{-6}	160										159
10^{-7}											
10^{-8}											



L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $\mathbf{Q_{min/L}}$ (at assembly), $\mathbf{Q_{Smin/L}}$ (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}	5	5	5	5	5	5	5	5			5
10^{-1}	9	6	5	5	5	5	5	5			5
10^{-2}	31				22	9	5	5			5
10^{-3}	76						70	38			14
10^{-4}	127										74
10^{-5}											
10^{-6}											
10^{-7}											
10^{-8}											



Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: 1	Creation date of this sheet: *18.10.2011*

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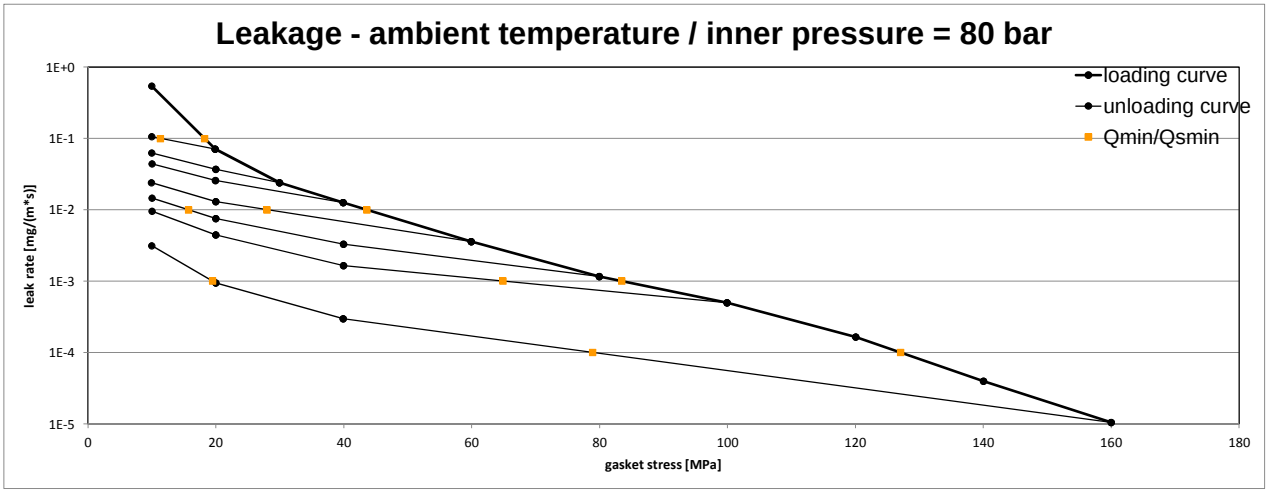
Company Address	*SGL Group - The Carbon Company, Werner-von-Siemens-Str. 18, 86405 Meitingen, Germany*
Gasket Type	*Sigraflex Hochdruck V30011Z3I*
Sealing element dimensions [mm]	*92 x 49 x 3*

L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $\mathbf{Q_{min/L}}$ (at assembly), $\mathbf{Q_{Smin/L}}$ (after off-loading) for p = 80 bar $Q_{Smin/L}$ [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}	10	10	10	10	10	10	10			10	
10^{-1}	18	11	10	10	10	10	10			10	
10^{-2}	44				28	16	10			10	
10^{-3}	83						65			19	
10^{-4}	127									79	
10^{-5}											
10^{-6}											
10^{-7}											
10^{-8}											



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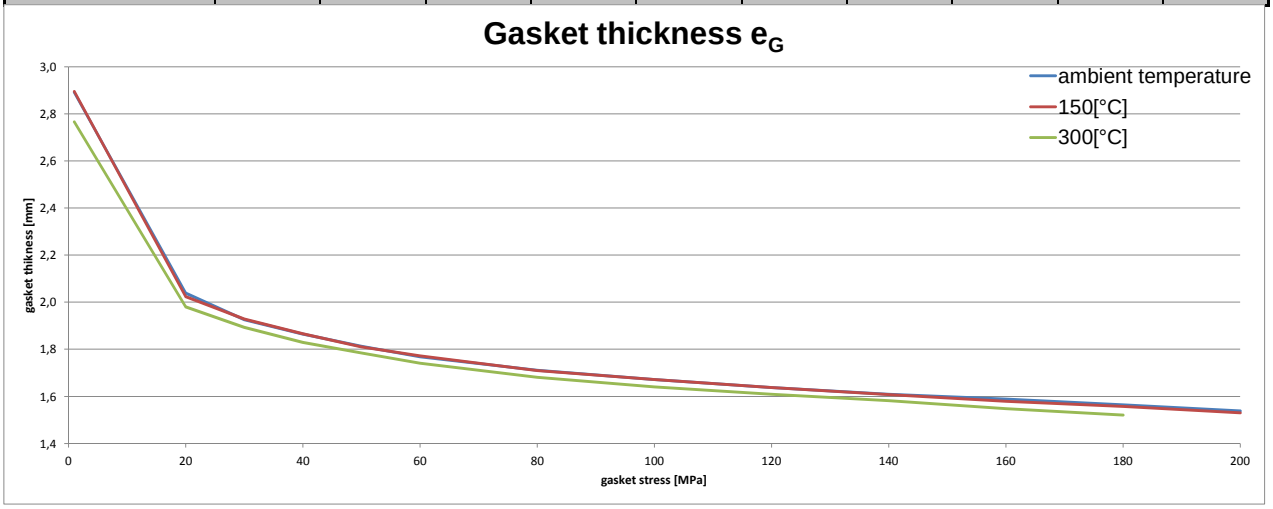
Gasket Type	*Sigraflex Hochdruck V30011Z3I*
Sealing element dimensions [mm]	*92 x 49 x 3*

Relaxation ratio P_{QR} for stiffness **C** = 500 kN/mm					
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [300 °C]		
Stress level 1 [30 MPa]	0,98	0,93	0,92		
Stress level 2 [50 MPa]	0,98	0,96	0,95		
PQR at Q_{Smax}	1,00 *at 200 MPa*	0,99 *at 200 MPa*	0,98 *at 180 MPa*		

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

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]					
	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										
1		2,89		2,90		2,77				
20	409	2,04	432	2,02	466	1,98				
30	631	1,93	660	1,93	670	1,89				
40	935	1,86	1002	1,87	994	1,83				
50	1089	1,81	1038	1,81	1423	1,79				
60	1274	1,77	1400	1,77	1323	1,74				
80	1949	1,71	1837	1,71	2025	1,68				
100	2578	1,67	2582	1,67	2426	1,64				
120	2839	1,64	2868	1,64	3163	1,61				
140	3145	1,61	3155	1,61	3322	1,58				
160	3960	1,59	3294	1,58	3190	1,55				
180	4279	1,56	3892	1,56	3245	1,52				
200	3694	1,54	4153	1,53						



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