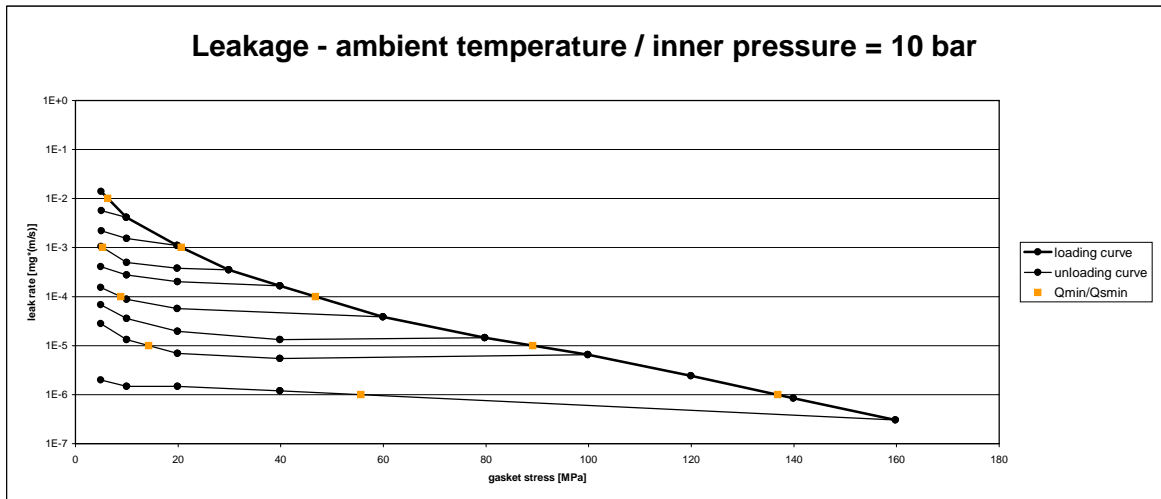
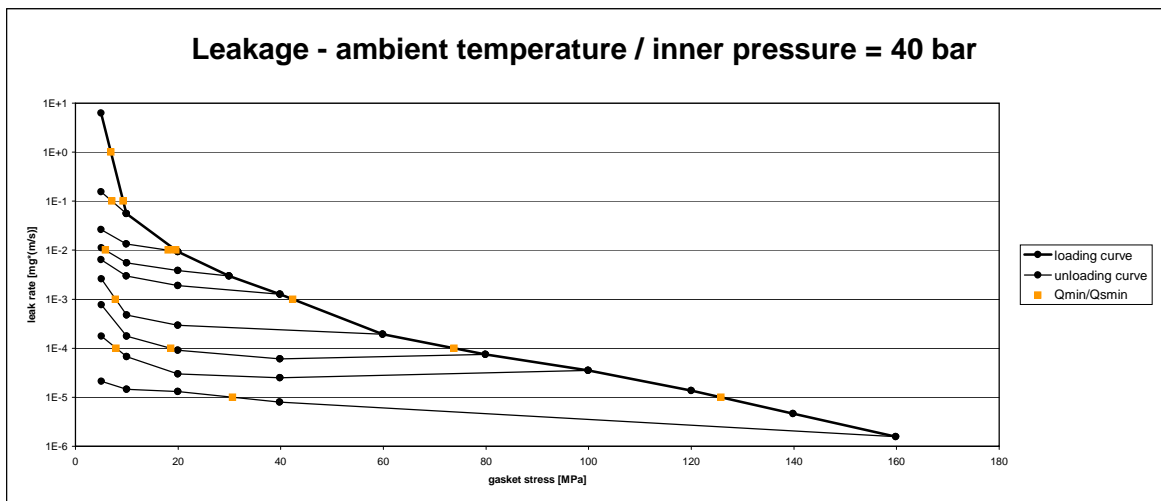


Company Address	SGL Group - The Carbon Company, Werner-von-Siemens-Str. 18, 86405 Meitingen, Germany
Gasket Type	Sigraflex Select V16010C3I
Sealing element dimensions [mm]	92 x 49 x 1.6

Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for $p = 10$ bar											
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [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}	6	5	5	5	5	5	5	5			5
10^{-3}	21			5	5	5	5	5			5
10^{-4}	47					9	5	5			5
10^{-5}	89							14			5
10^{-6}	137										56
10^{-7}											
10^{-8}											



Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for $p = 40$ bar											
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [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}	9	7	5	5	5	5	5	5			5
10^{-2}	20		18	6	5	5	5	5			5
10^{-3}	42					8	5	5			5
10^{-4}	74						19	8			5
10^{-5}	126										31
10^{-6}											
10^{-7}											
10^{-8}											



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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	0,96	0,93	
Stress level 2 [50 MPa]	0,99	0,97	0,96	
PQR at Q_{Smax}	1,00 at 200 MPa	0,99 at 200 MPa	0,99 at 200 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]	Q_{Smax} [MPa] – temperature 3	Q_{Smax} [MPa] – temperature 4
200	200	200		

Sekant unloading modulus of the gasket E_G [MPa]				
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [300 °C]	
20	491	575	553	
30	661	755	1252	
40	1288	1466	1307	
50	1530	1183	1589	
60	1434	2014	1895	
80	3626	3245	2443	
100	5171	3601	3177	
120	3924	3623	3772	
140	3973	4660	4983	
160	4902	5213	8338	
180	7836	7317	5657	
200	11655	9022	6788	
220				
240				
260				
280				
300				
320				
340				
360				
380				
400				
420				
440				
460				
480				
500				
835				