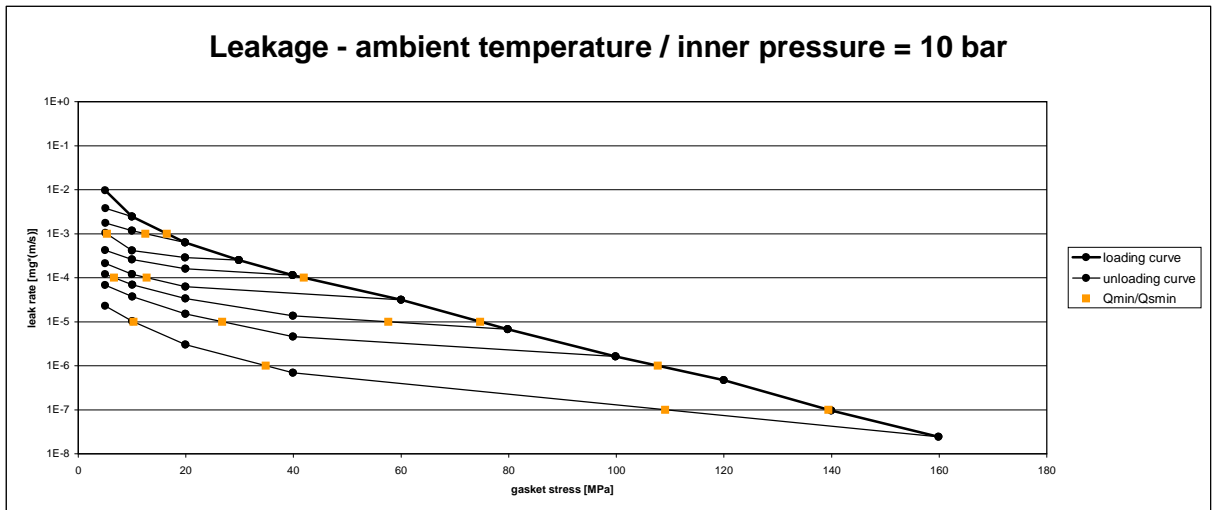
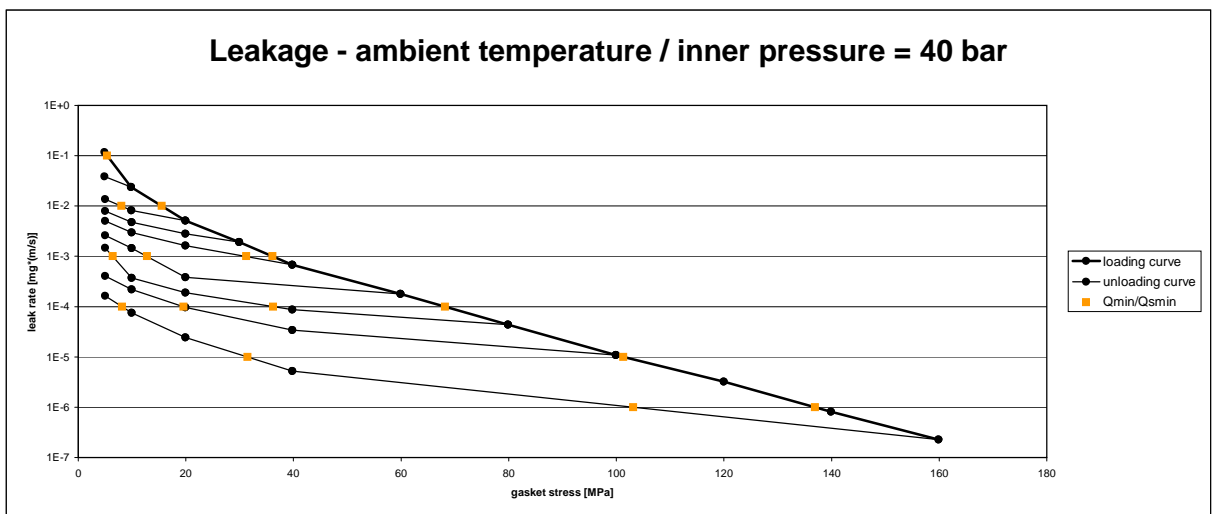


Company Address	SGL Group - The Carbon Company, Werner-von-Siemens-Str. 18, 86405 Meitingen, Germany
Gasket Type	Sigraflex Universal Pro V20010C21-P
Sealing element dimensions [mm]	92 x 49 x 2.0

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}	5	5	5	5	5	5	5	5			5
10^{-3}	17		12	5	5	5	5	5			5
10^{-4}	42					13	7	5			5
10^{-5}	75						58	27			10
10^{-6}	108										35
10^{-7}	139										109
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	5	5	5	5	5	5	5	5			5
10^{-1}	5	5	5	5	5	5	5	5			5
10^{-2}	16		8	5	5	5	5	5			5
10^{-3}	36				31	13	6	5			5
10^{-4}	68						36	20			8
10^{-5}	101										31
10^{-6}	137										103
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]	0,97	0,93	0,89		
Stress level 2 [50 MPa]	0,99	0,97	0,95		
PQR at Q_{Smax}	1,00 at 200 MPa	0,99 at 200 MPa	0,99 at 160 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	160		

Sekant unloading modulus of the gasket E_G [MPa]					
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [300 °C]		
20	433	569	547		
30	814	1030	1032		
40	1066	1086	1170		
50	1077	1289	1339		
60	1645	1366	1550		
80	2628	3210	3184		
100	2375	2859	2984		
120	4666	3119	3266		
140	4919	4768	4307		
160	7545	6044	5493		
180	11339	8752			
200	9901	7804			
220					
240					
260					
280					
300					
320					
340					
360					
380					
400					
420					
440					
460					
480					
500					
835					