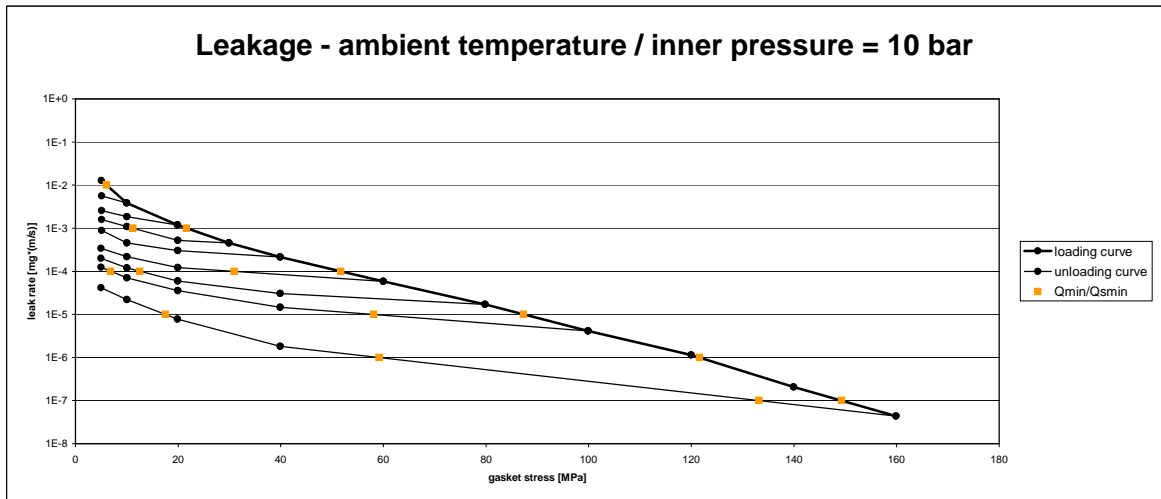
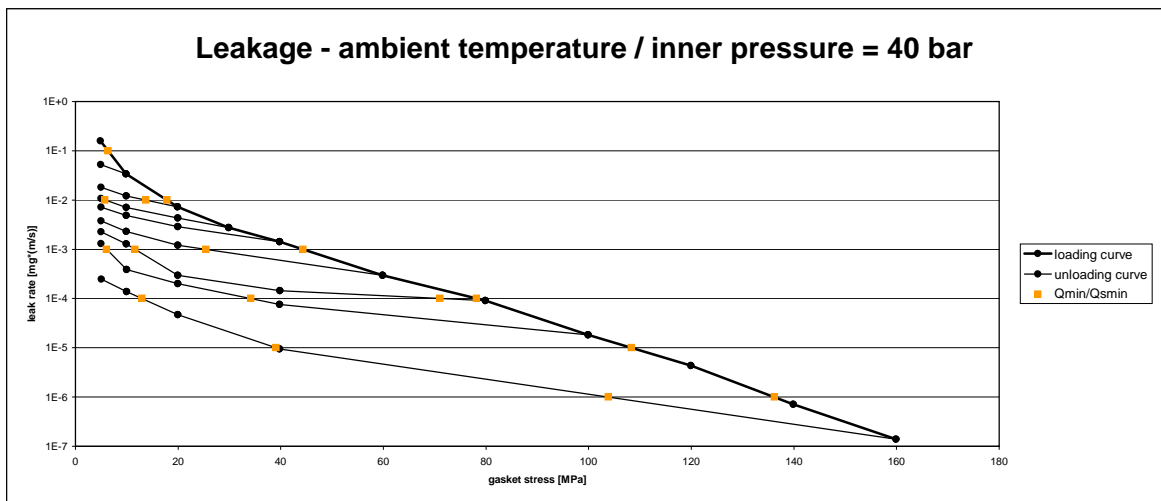


Company Address	SGL Group - The Carbon Company, Werner-von-Siemens-Str. 18, 86405 Meitingen, Germany
Gasket Type	Sigrallex Hochdruck Pro V20011Z3I-P
Sealing element dimensions [mm]	92 x 49 x 2.0

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
$10^{-2}$	6	5	5	5	5	5	5	5			5
$10^{-3}$	22			11	5	5	5	5			5
$10^{-4}$	52					31	13	7			5
$10^{-5}$	87							58			18
$10^{-6}$	122										59
$10^{-7}$	149										133
$10^{-8}$											



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
$10^{-1}$	6	5	5	5	5	5	5	5			5
$10^{-2}$	18		14	6	5	5	5	5			5
$10^{-3}$	44					25	12	6			5
$10^{-4}$	78						71	34			13
$10^{-5}$	108										39
$10^{-6}$	136										104
$10^{-7}$											
$10^{-8}$											



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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	0,95	0,91	
Stress level 2 [50 MPa]	0,98	0,96	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	420	496	502	
30	835	779	797	
40	1060	1189	1077	
50	1503	1432	1622	
60	1832	1857	1902	
80	2609	2331	2388	
100	3898	4030	3451	
120	7218	5187	5072	
140	6025	7330	7903	
160	10285	7240	7876	
180	9545	8702	7242	
200	6978	11070	5548	
220				
240				
260				
280				
300				
320				
340				
360				
380				
400				
420				
440				
460				
480				
500				
835				