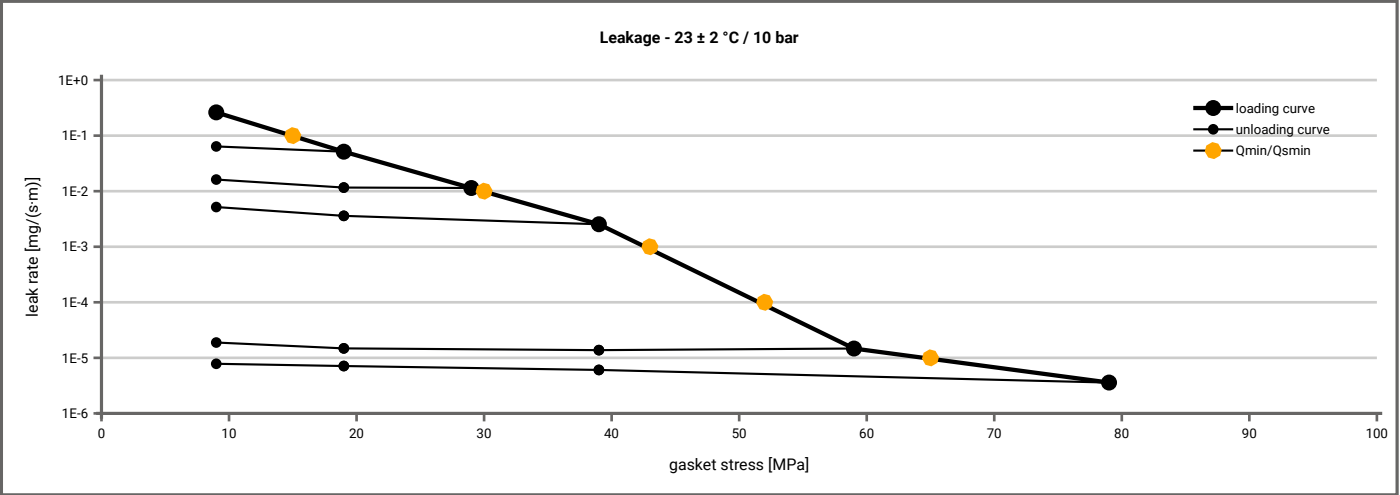
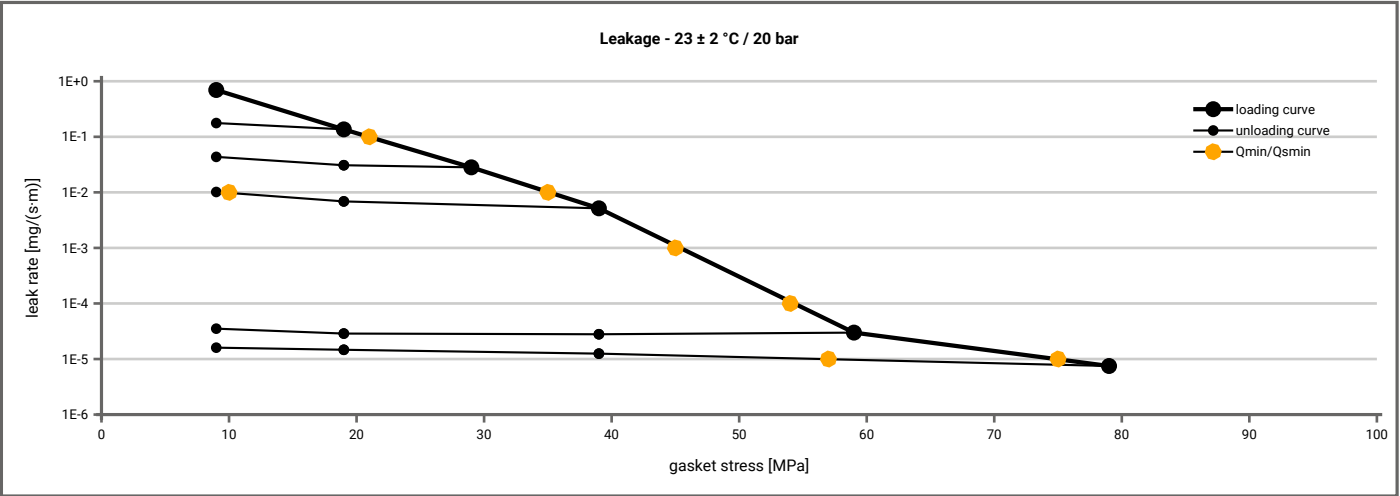


Manufacturer address	W. L. Gore & Associates GmbH, Hermann-Oberth-Straße 26, 85640 Putzbrunn, DE	According to EN 13555 2021-4
Product name	GORE® GR Sheet Gasketing	
Product dimensions	92 x 49 x 6 mm	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 10 bar (T = 23 ± 2 °C)							
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		$Q_A = 9.7$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E-0	10		10	10	10	10	10
1E-1	16		10	10	10	10	10
1E-2	31				10	10	10
1E-3	43					10	10
1E-4	52					10	10
1E-5	65						10
1E-6							
1E-7							

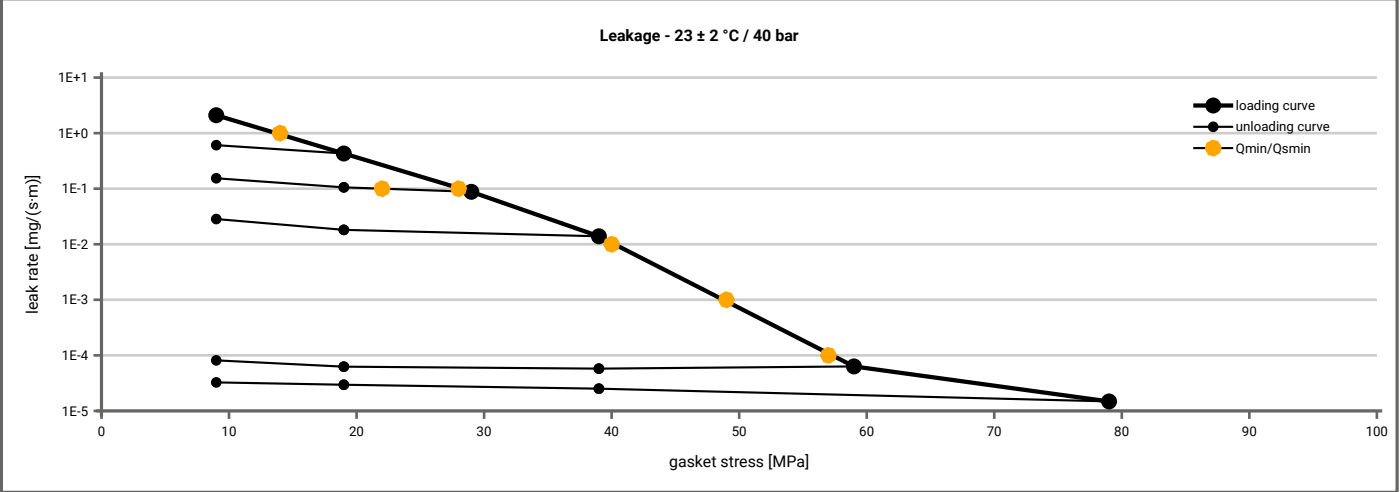


Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 20 bar (T = 23 ± 2 °C)							
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		$Q_A = 9.7$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E-0	10		10	10	10	10	10
1E-1	22			10	10	10	10
1E-2	36				10	10	10
1E-3	46					10	10
1E-4	55					10	10
1E-5	75						57
1E-6							
1E-7							



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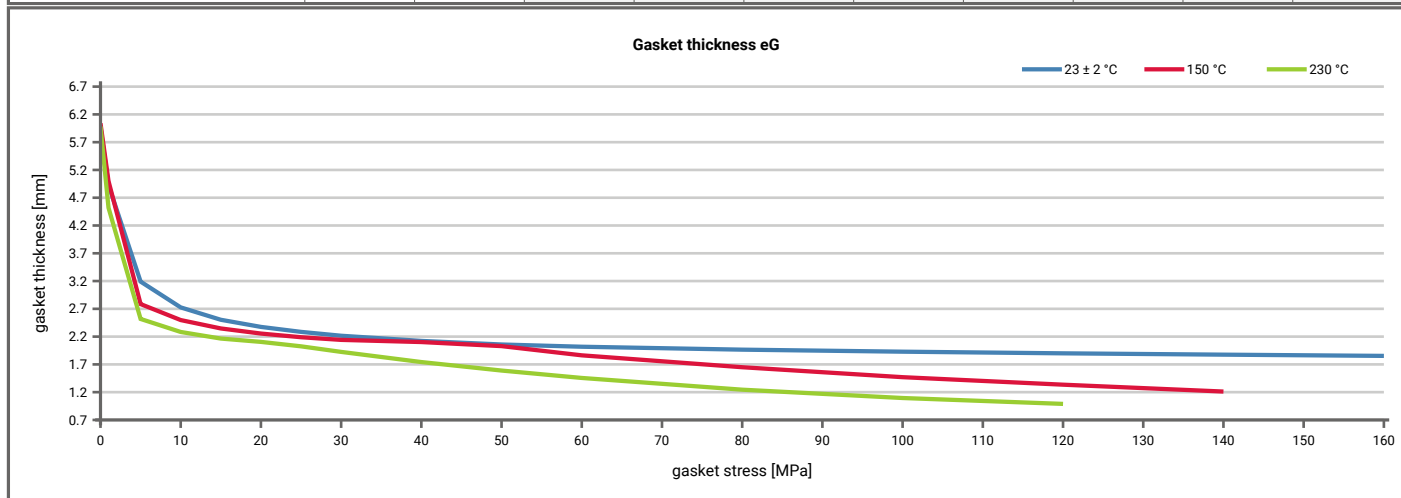
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)							
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		$Q_A = 9.6$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E+1	10		10	10	10	10	10
1E-0	14		10	10	10	10	10
1E-1	29			23	10	10	10
1E-2	41					10	10
1E-3	49					10	10
1E-4	58					10	10
1E-5							
1E-6							
1E-7							



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Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [230 °C]					
	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]
Stress level 1 [20 MPa]	0.79	36	0.39	103	0.25	126				
Stress level 2 [30 MPa]	0.84	40	0.58	107	0.52	121				
Stress level 3 [50 MPa]	0.90	42	0.62	159	0.51	206				
Stress level 4 [80 MPa]					0.46	366				
Stress level 5 [100 MPa]			0.54	386						
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.97	40	0.56	517	0.46	544				
Q_{smax}	160 MPa		140 MPa		120 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [230 °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	0	5.972	0	6.040	0	5.982				
1	0	4.928	0	5.000	0	4.520				
5	65	3.190	54	2.786	67	2.518				
10	155	2.726	131	2.498	157	2.284				
15	245	2.503	241	2.347	289	2.165				
20	377	2.375	392	2.255	452	2.105				
25	524	2.285	547	2.189	537	2.025				
30	669	2.216	773	2.141	623	1.925				
40	896	2.123	1382	2.102	839	1.742				
50	1209	2.058	1445	2.029	1074	1.589				
60	1583	2.018	1640	1.863	1308	1.456				
80	2248	1.965	2027	1.649	1920	1.245				
100	2516	1.929	2511	1.470	2628	1.095				
120	2712	1.899	3315	1.335	3374	0.989				
140	3059	1.875	4288	1.211						
160	3573	1.853								



Fields marked: Intrusion into bore was detected. Determined after the corresponding P_{QR} Test.