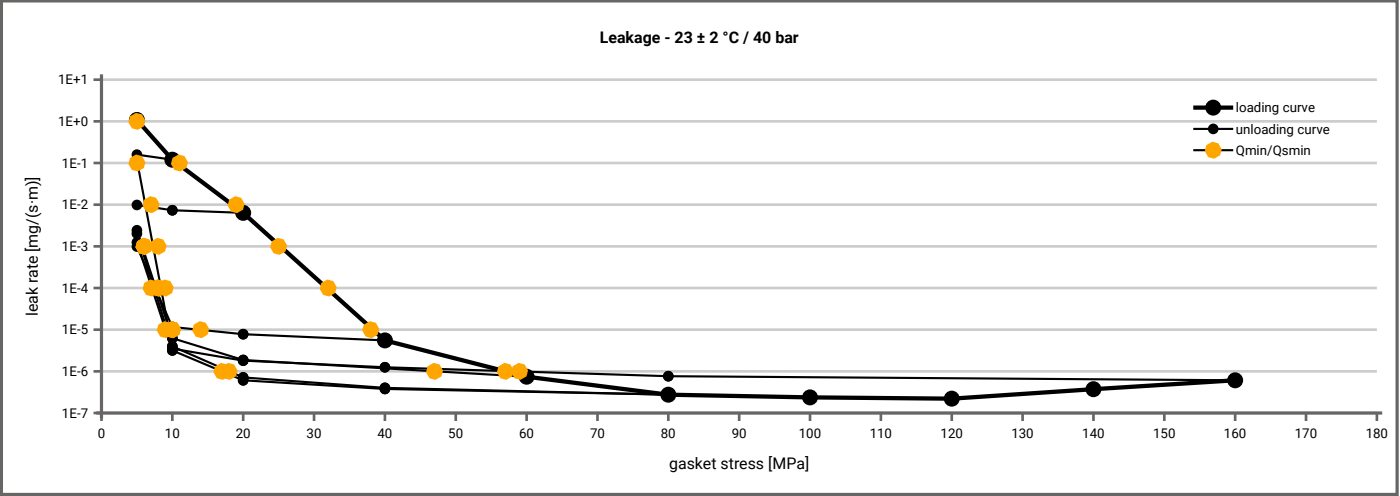


Manufacturer address	Flexitallic Ltd., Cleckheaton, BD19 4LN West Yorkshire, GB	According to DIN EN 13555 2014-7
Product name	Spiral Wound CGI PTFE/316L	
Product dimensions	67 x 55 x 4.6 mm (DIN EN 1514-2 2014-8)	

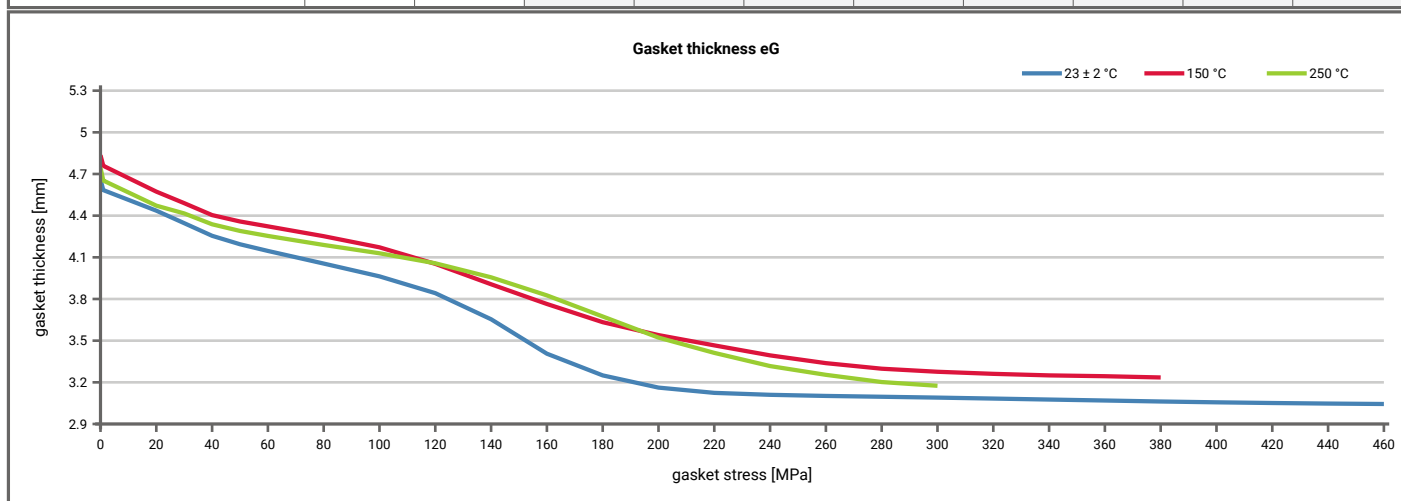
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)											
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]									
		$Q_A = 5.5$ [MPa]	$Q_A = 11$ [MPa]	$Q_A = 21$ [MPa]	$Q_A = 41$ [MPa]	$Q_A = 61$ [MPa]	$Q_A = 81$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E+1	6		6	6	6	6	6	6			6
1E-0	6		6	6	6	6	6	6			6
1E-1	11			6	6	6	6	6			6
1E-2	19			6	6	6	6	6			7
1E-3	26				6	7	6	6			8
1E-4	32				8	9	8	8			9
1E-5	39				15	10	10	10			10
1E-6	58					48	19	18			59
1E-7											
1E-8											



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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 [250 °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 [50 MPa]	0.93	8	0.80	23	0.88	14				
Stress level 2 [180 MPa]	0.97	14	0.92	35	0.88	50				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	1.00	0	0.99	9	0.99	7				
Q_{smax}	460 MPa		380 MPa		300 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 [250 °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	4.660	0	4.835	0	4.745				
1	0	4.584	0	4.759	0	4.653				
20	2837	4.436	4279	4.573	3507	4.472				
30	2307	4.346	3230	4.490	3100	4.416				
40	2914	4.255	4225	4.404	4046	4.338				
50	3836	4.194	5378	4.358	5092	4.290				
60	4774	4.146	6440	4.323	6184	4.254				
80	5543	4.055	7134	4.252	7075	4.189				
100	5796	3.963	7643	4.172	7746	4.129				
120	5969	3.842	8156	4.053	8573	4.057				
140	6211	3.654	8956	3.906	9185	3.956				
160	6470	3.406	9483	3.764	10315	3.826				
180	7336	3.250	10670	3.633	10801	3.674				
200	8483	3.162	11767	3.540	10923	3.522				
220	9869	3.124	12506	3.466	11581	3.412				
240	11567	3.110	14622	3.394	13134	3.317				
260	13254	3.102	15735	3.338	13905	3.254				
280	14996	3.096	15865	3.298	15060	3.202				
300	16722	3.090	17456	3.276	16634	3.175				
320	18221	3.083	18498	3.261						
340	19246	3.076	19560	3.250						
360	20190	3.069	22626	3.244						
380	20778	3.062	22765	3.235						
400	21746	3.056								
420	22887	3.051								
440	24564	3.047								
460	26654	3.044								



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2017-01-09
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