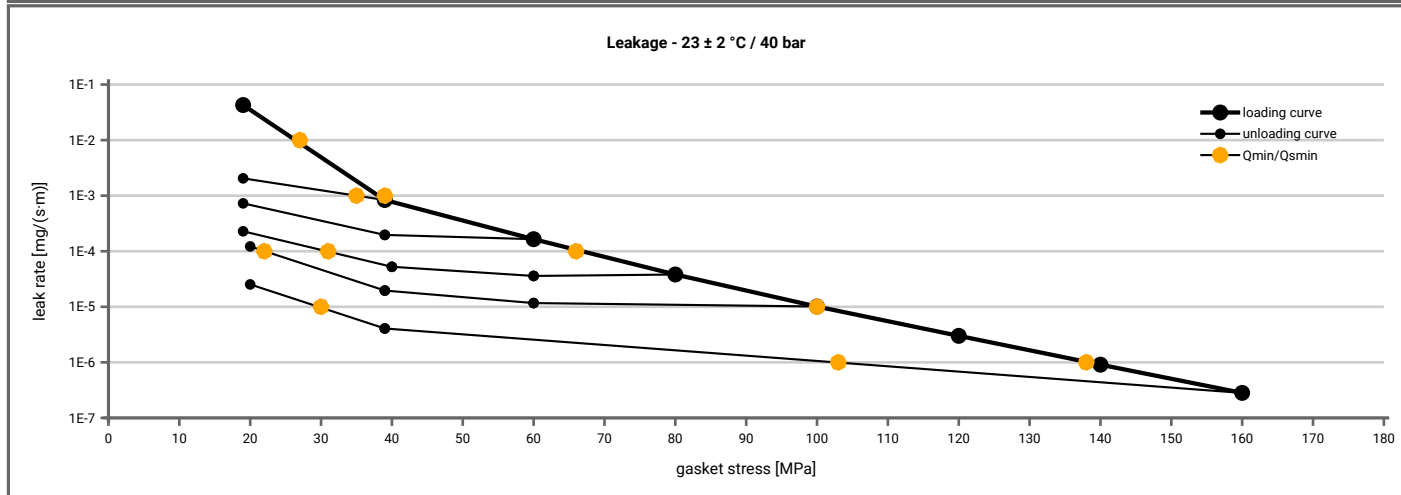
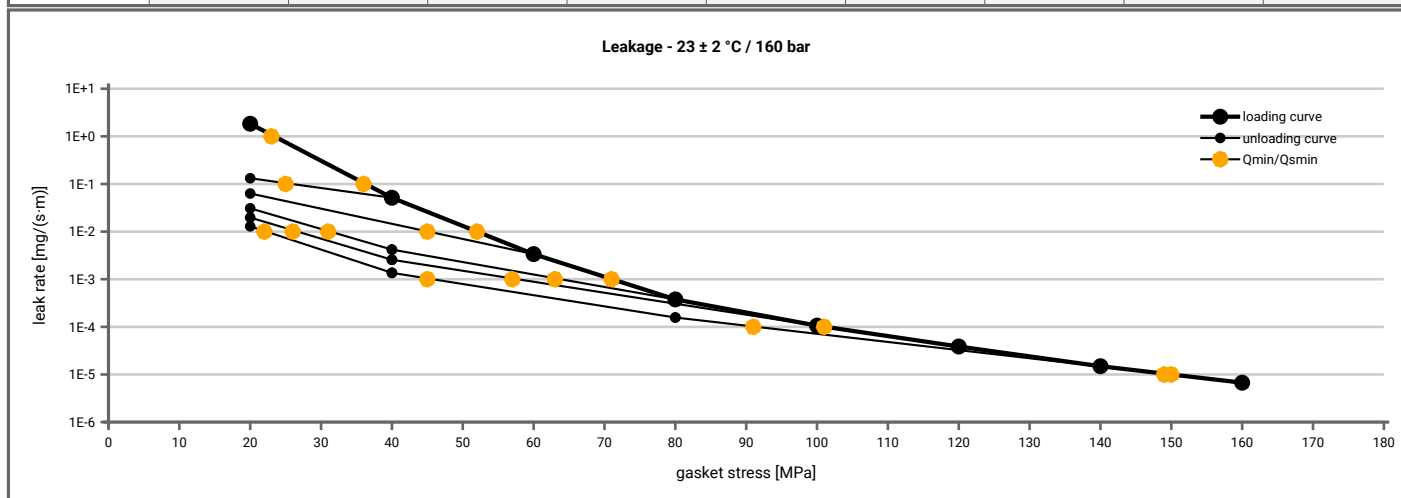


Manufacturer address	Flexitallic Ltd., Cleckheaton, BD19 4LN West Yorkshire, GB	According to DIN EN 13555 2014-7
Product name	Spiral Wound CGI TH835/321L	
Product dimensions	149.4 x 127 x 4.6 mm (DIN EN 1514-2 2014-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °C)									
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]							
		$Q_A = 20$ [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]
1E-0	20		20	20	20	20			20
1E-1	20		20	20	20	20			20
1E-2	27		20	20	20	20			20
1E-3	39		36	20	20	20			20
1E-4	67				31	22			20
1E-5	100								30
1E-6	138								103
1E-7									
1E-8									



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 160$ bar ($T = 23 \pm 2$ °C)									
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]							
		$Q_A = 20$ [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]
1E+1	20		20	20	20	20			20
1E-0	23		20	20	20	20			20
1E-1	36		26	20	20	20			20
1E-2	52			45	31	27			22
1E-3	71				64	58			46
1E-4	101								91
1E-5	150								150
1E-6									
1E-7									
1E-8									

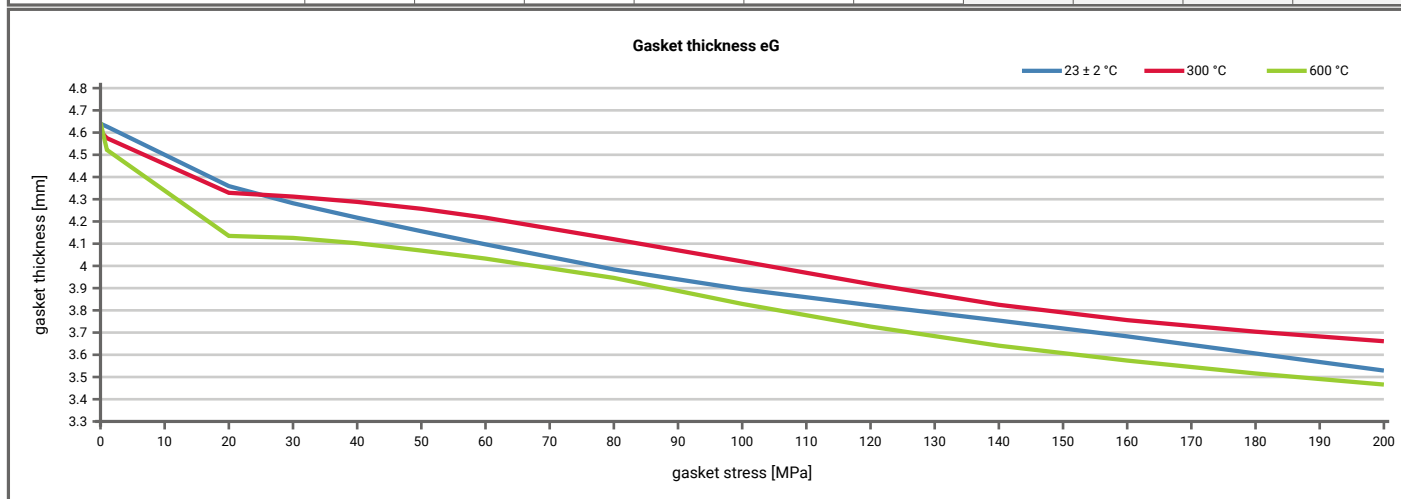


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2016-05-09
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Manufacturer address	Flexitallic Ltd., Cleckheaton, BD19 4LN West Yorkshire, GB	According to DIN EN 13555 2014-7
Product name	Spiral Wound CGI TH835/321L	
Product dimensions	149.4 x 127 x 4.6 mm (DIN EN 1514-2 2014-8)	

Relaxation ratio P _{QR} for stiffness C = 500 [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [300 °C]		Temperature 2 [600 °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 [70 MPa]	0.96	28	0.84	106	0.71	185				
Stress level 2 [120 MPa]	0.98	28	0.88	131	0.71	317				
P _{QR} and Δe _{Gc} at maximum gasket stress to be applied Q _{smax}										
P _{QR} at Q _{smax}	0.99	27	0.91	169	0.79	400				
Q _{smax}	200 MPa		200 MPa		200 MPa					

Sekant unloading modulus of the gasket E _G [MPa] and gasket thickness e _G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [300 °C]		Temperature 2 [600 °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	4.640	0	4.605	0	4.645				
1	0	4.627	0	4.575	0	4.522				
20	2074	4.359	5091	4.329	3976	4.135				
30	2678	4.282	8899	4.312	16082	4.126				
40	3541	4.217	8943	4.288	22206	4.102				
50	4175	4.156	9113	4.257	14764	4.069				
60	4717	4.097	9127	4.217	11523	4.033				
80	5869	3.984	10268	4.120	11347	3.946				
100	7388	3.895	11306	4.020	11696	3.829				
120	9085	3.823	12249	3.918	12456	3.727				
140	10991	3.754	13627	3.825	11561	3.641				
160	12970	3.683	15076	3.756	14632	3.574				
180	15178	3.606	17067	3.704	13764	3.516				
200	17752	3.529	19034	3.661	17011	3.466				



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