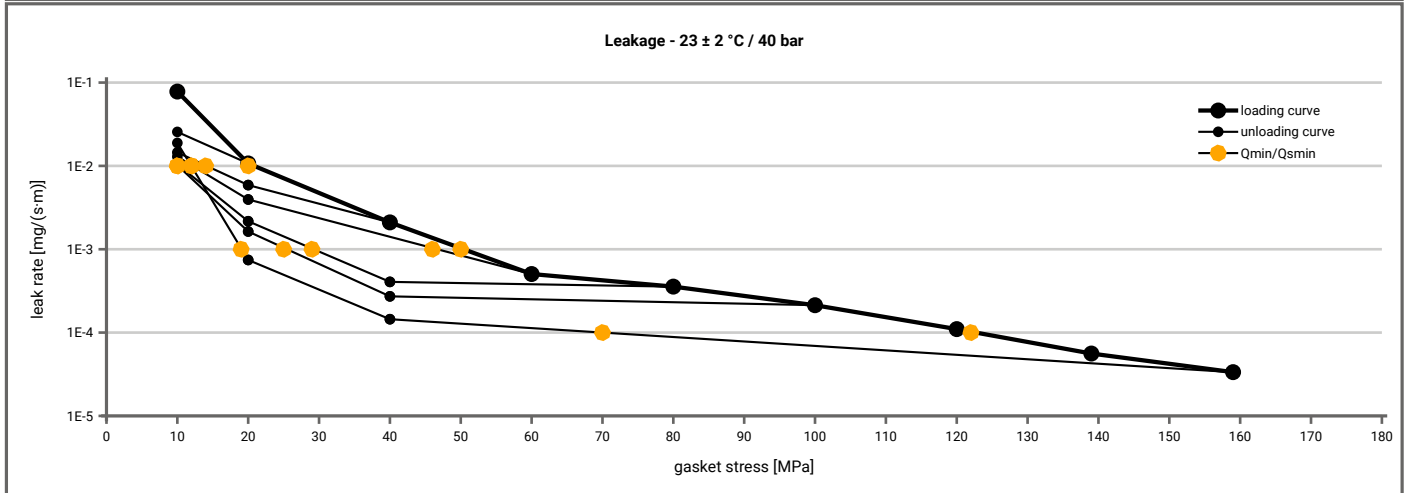


Manufacturer address	Flexitallic Ltd., Cleckheaton, BD19 4LN West Yorkshire, GB	According to DIN EN 13555 2014-7
Product name	SWG CGI Graphite 4" Class 300	
Product dimensions	149 x 126 x 5 mm (DIN EN 1514-2 2014-8)	

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]								
		$Q_A = 10$ [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	10		10	10	10	10	10			10
1E-1	10		10	10	10	10	10			10
1E-2	21			14	12	10	10			12
1E-3	50				47	29	26			19
1E-4	123									70
1E-5										
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: 2016-07-25
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Product name	SWG CGI Graphite 4" Class 300	
Product dimensions	149 x 126 x 5 mm (DIN EN 1514-2 2014-8)	

Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [200 °C]		Temperature 2 [400 °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 [100 MPa]	0.99	10	0.96	45	0.95	55				
Stress level 2 [150 MPa]	0.99	15	0.99	15	0.96	67				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.99	20	0.99	20	0.98	50				
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 [200 °C]		Temperature 2 [400 °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	4.469	0	4.391	0	4.429				
1	0	4.469	0	4.391	0	4.429				
20	1026	3.988	1227	4.052	1150	3.841				
30	1166	3.595	1909	3.968	1629	3.733				
40	1420	3.408	2426	3.889	2001	3.591				
50	1996	3.312	3326	3.810	2903	3.452				
60	2577	3.237	3596	3.705	3814	3.365				
80	3669	3.107	4249	3.525	5812	3.239				
100	5169	3.000	6599	3.387	9908	3.150				
120	6824	2.924	7432	3.272	10771	3.063				
140	7795	2.861	9329	3.158	13490	2.983				
160	10135	2.812	13363	3.058	12608	2.893				
180	10428	2.768	14468	2.962	14432	2.803				
200	14282	2.747	16160	2.901	16506	2.722				

