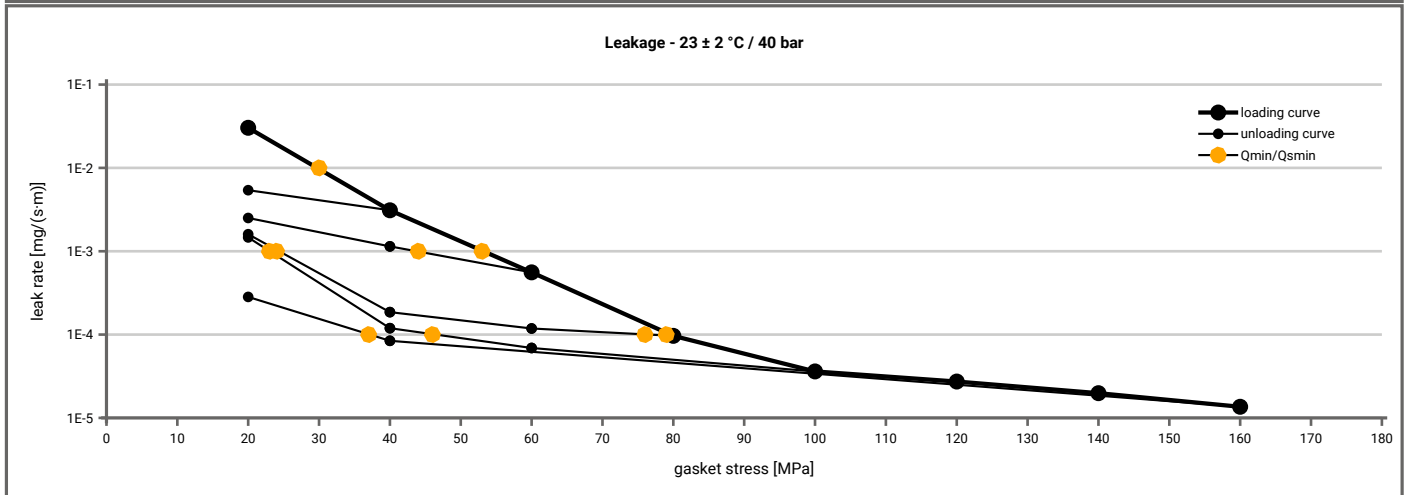
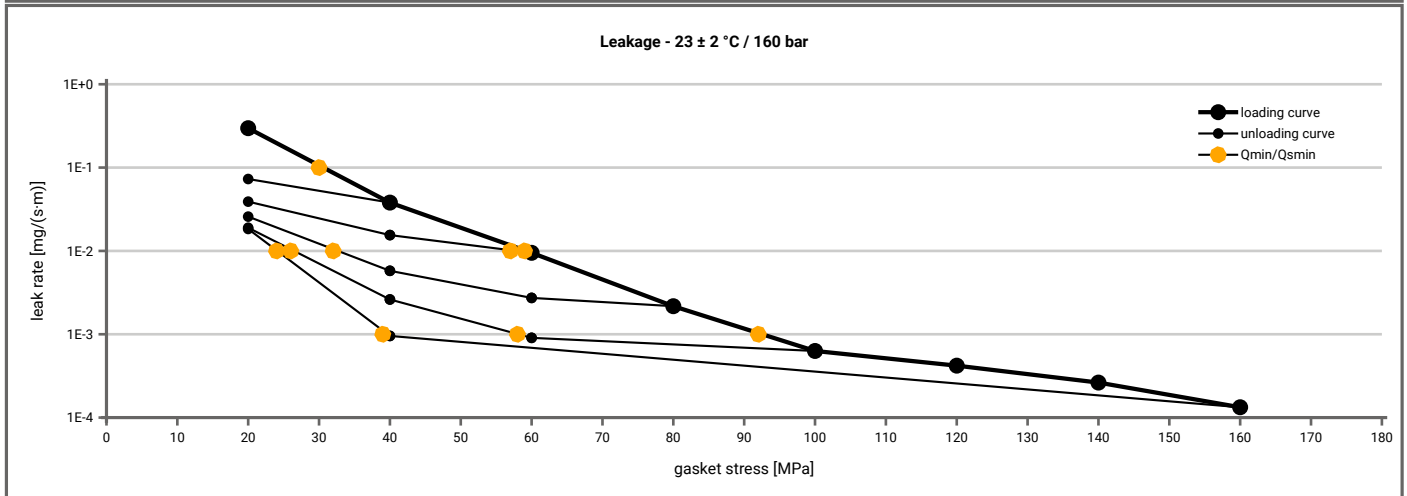


<b>Manufacturer address</b>	Flexitallic Ltd., Cleckheaton, BD19 4LN West Yorkshire, GB	According to <b>DIN EN 13555</b> <b>2014-7</b>
<b>Product name</b>	Spiral Wound Gasket, CGI style - Graphite filler and 321/1.4541 windings	
<b>Product dimensions</b>	149.4 x 127 x 4.6 mm (DIN EN 1514-2 2014-8)	

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	30		20	20	20	20			20
1E-3	53			44	25	23			20
1E-4	80				77	47			37
1E-5									
1E-6									
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-0	20		20	20	20	20			20
1E-1	31		20	20	20	20			20
1E-2	59			58	33	26			24
1E-3	93					58			40
1E-4									
1E-5									
1E-6									
1E-7									
1E-8									



Note: the content of darkened cells was not determined respectively is unnecessary      Rev.-No.: 2      Creation date of this sheet: 2016-09-27

<b>Manufacturer address</b>	Flexitallic Ltd., Cleckheaton, BD19 4LN West Yorkshire, GB	According to <b>DIN EN 13555</b> 2014-7
<b>Product name</b>	Spiral Wound Gasket, CGI style - Graphite filler and 321/1.4541 windings	
<b>Product dimensions</b>	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 [200 °C]		Temperature 2 [400 °C]		$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]
	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]				
Stress level 1 [70 MPa]	0.99	7	0.96	27	0.94	41				
Stress level 2 [120 MPa]	1.00	0	0.97	35	0.96	47				
$P_{QR}$ and $\Delta e_{Gc}$ at maximum gasket stress to be applied $Q_{smax}$										
$P_{QR}$ at $Q_{smax}$	1.00	0	0.98	39	0.98	39				
$Q_{smax}$	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	4.670	0	4.645	0	4.650				
1	0	4.627	0	4.628	0	4.625				
20	1202	4.433	1434	4.405	2371	4.403				
30	1641	4.365	2411	4.359	4764	4.377				
40	2275	4.302	3568	4.302	7066	4.335				
50	2899	4.239	4630	4.245	7512	4.286				
60	3395	4.168	5269	4.186	7595	4.232				
80	4232	4.030	6028	4.050	7552	4.099				
100	4994	3.886	6856	3.917	8032	3.955				
120	5737	3.786	7704	3.804	8748	3.845				
140	6457	3.691	8512	3.718	9539	3.764				
160	7273	3.606	9309	3.652	10409	3.699				
180	8252	3.525	10164	3.598	11174	3.644				
200	9176	3.445	11025	3.550	11934	3.595				

