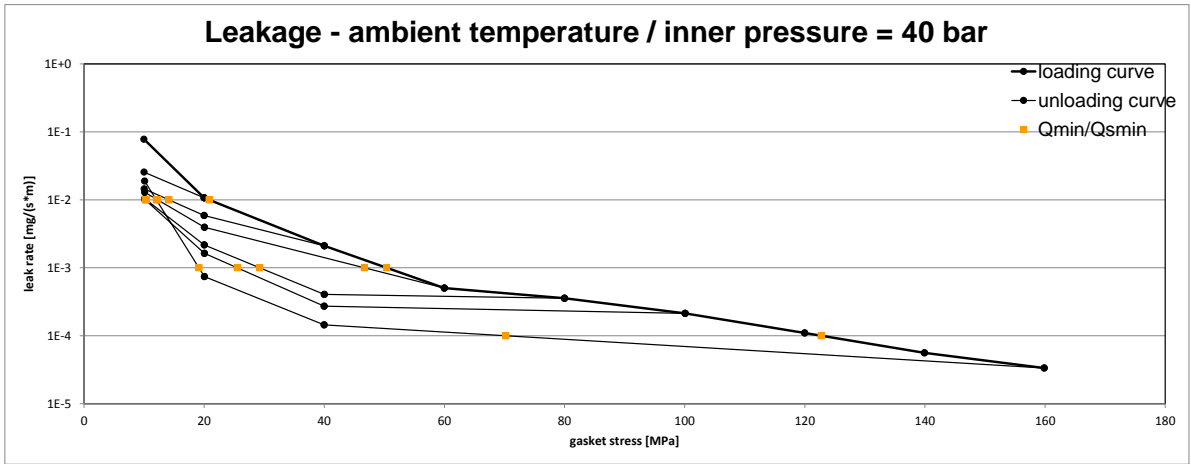


Company Address	Flexitallic www.flexitallic.eu +44 1274 851273	email sales@flexitallic.eu	According to <b>DIN EN 13555</b> <b>2014-07</b>
Gasket Type	SWG CGI 316L/Graphite, 4" Class 300		
Sealing element dimensions [mm]	149x126x5.00		

L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 40 bar							
		Q <sub>Smin/L</sub> [MPa]							
		Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa	Q <sub>A</sub> = 100 MPa	Q <sub>A</sub> = 120 MPa	Q <sub>A</sub> = 140 MPa	Q <sub>A</sub> = 160 MPa
10 <sup>0</sup>			10	10	10	10			10
10 <sup>-1</sup>			10	10	10	10			10
10 <sup>-2</sup>	21		14	12	10	10			12
10 <sup>-3</sup>	50			47	29	26			19
10 <sup>-4</sup>	123								70
10 <sup>-5</sup>									
10 <sup>-6</sup>									
10 <sup>-7</sup>									
10 <sup>-8</sup>									



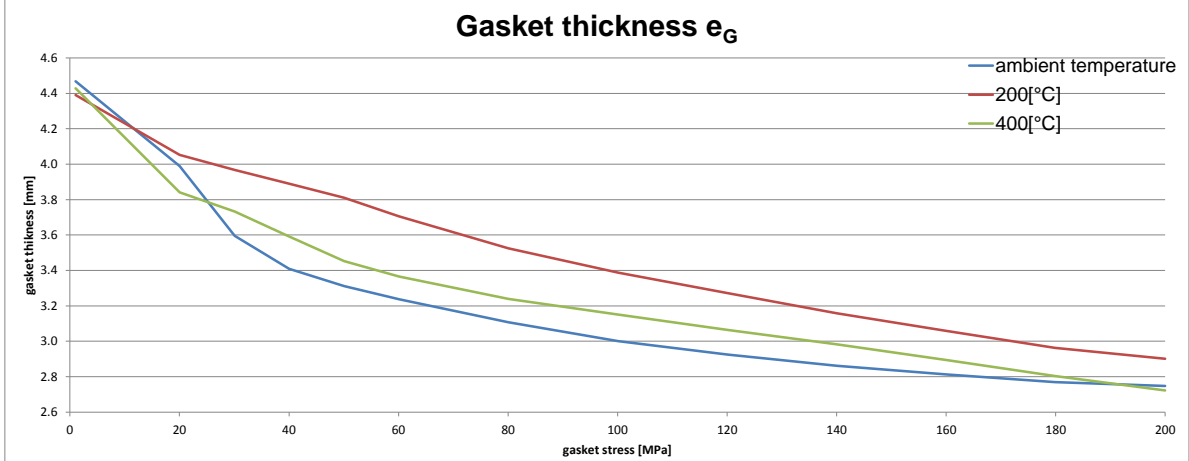
L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 40 bar							
		Q <sub>Smin/L</sub> [MPa]							
10 <sup>0</sup>									
10 <sup>-1</sup>									
10 <sup>-2</sup>									
10 <sup>-3</sup>									
10 <sup>-4</sup>									
10 <sup>-5</sup>									
10 <sup>-6</sup>									
10 <sup>-7</sup>									
10 <sup>-8</sup>									

Note: the content of darkened cells was not determined respectively is unnecessary      Rev - No: 1      Creation date of this sheet: 2016-05-10

Company Address	Flexitallic www.flexitallic.eu +44 1274 851273	email sales@flexitallic.eu	According to <b>DIN EN 13555</b> <b>2014-07</b>
Gasket Type	SWG CGI 316L/Graphite, 4" Class 300		
Sealing element dimensions [mm]	149x126x5.00		

Relaxation ratio $P_{QR}$ for stiffness $C = 500$ kN/mm										
Gasket stress	ambient temperature		temperature 1 [200 °C]		temperature 2 [400 °C]		$P_{QR}$	$\Delta e_{gc}$ [mm]	$P_{QR}$	$\Delta e_{gc}$ [mm]
	$P_{QR}$	$\Delta e_{gc}$ [mm]	$P_{QR}$	$\Delta e_{gc}$ [mm]	$P_{QR}$	$\Delta e_{gc}$ [mm]				
Stress level 1 [100 MPa]	0.99	0.010	0.96	0.045	0.95	0.055				
Stress level 2 [150 MPa]	0.99	0.015	0.99	0.015	0.96	0.067				
Stress level 3 [200 MPa]	0.99	0.020	0.99	0.020	0.98	0.050				
$P_{QR}$ at $Q_{Smax}$	0.99	0.020	0.99	0.020	49.49	-96.355				
$Q_{Smax}$	200 MPa		200 MPa		200 MPa					

Sekant unloading modulus of the gasket $E_G$ [MPa] and gasket thickness $e_G$ [mm]												
Gasket stress [MPa]	ambient temperature		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]	$E_G$ [MPa]	$e_G$ [mm]						
0		5.000		5.000		5.000						
1		4.469		4.391		4.429						
20	1026	3.988	1226	4.052	1150	3.841						
30	1166	3.595	1909	3.968	1629	3.733						
40	1420	3.408	2425	3.889	2001	3.591						
50	1996	3.312	3326	3.810	2903	3.452						
60	2577	3.237	3596	3.705	3813	3.365						
80	3669	3.107	4248	3.525	5811	3.239						
100	5168	3.000	6599	3.387	9908	3.150						
120	6824	2.924	7432	3.272	10770	3.063						
140	7795	2.861	9329	3.158	13490	2.983						
160	10135	2.812	13363	3.058	12607	2.893						
180	10427	2.768	14467	2.962	14431	2.803						
200	<b>14282</b>	2.747	<b>16160</b>	2.901	<b>16508</b>	2.722						



Note: the content of darkened cells was not determined respectively is unnecessary | Rev - No: 1 | Creation date of this sheet: 2016-05-10