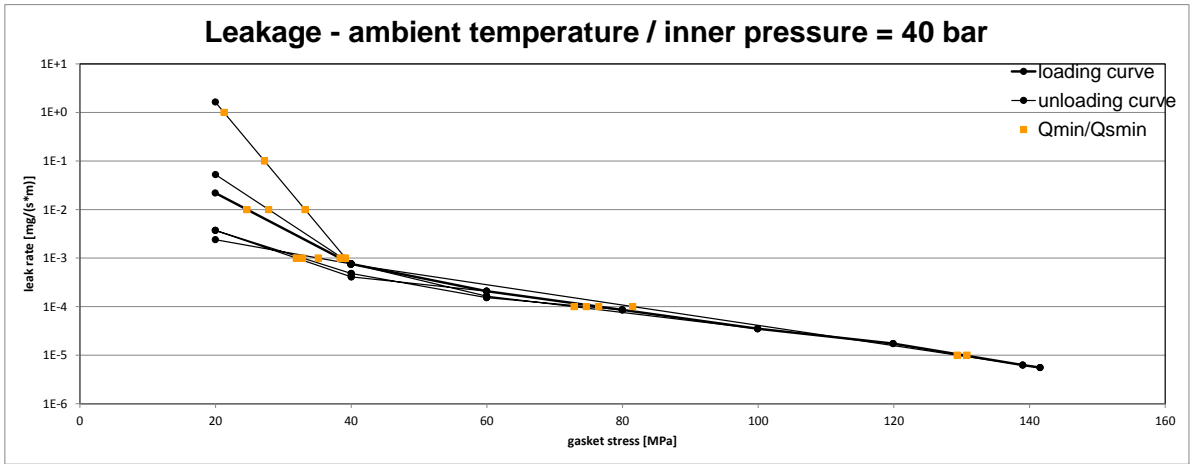


Company Address	Flexitallic Ltd www.flexitallic.eu +44 1274 851273 email sales@flexitallic.eu	According to <b>DIN EN 13555</b> <b>2014-07</b>
Gasket Type	Graphite faced Kamm profile 4" Class 300	
Sealing element dimensions [mm]	154x124x4.0	

		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for $p = 40$ bar								
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [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	$Q_A= 140$ MPa		
$10^0$		20	20	20	20			21		
$10^{-1}$		20	20	20	20			27		
$10^{-2}$	25	20	20	20	28			33		
$10^{-3}$	38	35	32	33	39			39		
$10^{-4}$	76			75	73			81		
$10^{-5}$	131							129		
$10^{-6}$										
$10^{-7}$										
$10^{-8}$										



		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for $p = 40$ bar								
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [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	$Q_A= 140$ MPa		
$10^0$										
$10^{-1}$										
$10^{-2}$										
$10^{-3}$										
$10^{-4}$										
$10^{-5}$										
$10^{-6}$										
$10^{-7}$										
$10^{-8}$										

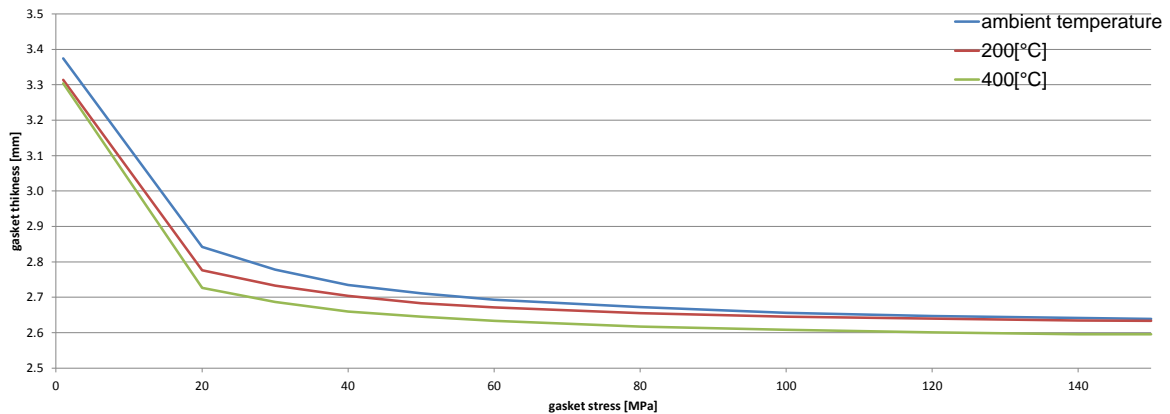
Note: the content of darkened cells was not determined respectively is unnecessary      Rev - No: 1      Creation date of this sheet: 2016-03-21

Company Address	Flexitallic Ltd www.flexitallic.eu +44 1274 851273 email sales@flexitallic.eu	According to <b>DIN EN 13555</b> <b>2014-07</b>
Gasket Type	Graphite faced Kamm profile 4" Class 300	
Sealing element dimensions [mm]	154x124x4.0	

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 [50 MPa]	1.00	0.003	1.00	0.000	0.98	0.016				
Stress level 2 [100 MPa]	1.00	0.000	1.00	0.000	1.00	0.000				
Stress level 3 [150 MPa]	0.99	0.020	1.00	0.000	1.00	0.000				
$P_{QR}$ and $\Delta e_{Gc}$ at maximal applicable gasket stress $Q_{Smax}$										
$P_{QR}$ at $Q_{Smax}$	0.99	0.020	1.00	0.000	1.00	0.000				
$Q_{Smax}$	150 MPa		150 MPa		150 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		4.000		4.000		4.000						
1		3.374		3.314		3.304						
20	4080	2.842	15899	2.776	122457	2.726						
30	5931	2.778	9392	2.732	116300	2.687						
40	7717	2.735	13691	2.704	123527	2.660						
50	10136	2.711	13479	2.683	68541	2.645						
60	9107	2.693	17994	2.671	145871	2.633						
80	10923	2.672	24234	2.655	471268	2.618						
100	12498	2.656	29093	2.645	208853	2.608						
120	18706	2.647	41889	2.640	379777	2.601						
140	21566	2.641	82662	2.635	357869	2.595						
150	23463	2.639	105552	2.634	460501	2.595						
180												
200												
220												
240												
260												
280												
300												
320												
340												
360												
380												
400												
420												
440												
460												
480												
500												
940												

**Gasket thickness  $e_G$**



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