

Company Address	<i>Flexitallic, www.flexitallic.com Tele:+44 1274 851273 Email: sales@flexitallic.com</i>
Gasket Type	<i>Graphite SWG CG 4" Class 300 B16.20</i>
Thickness e_{G0} [mm]	<i>4.75mm (Outer ring = 3.10mm)</i>

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]							
		$Q_A = 20$ [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]
10^{-0}	<10	<10	<10	<10	<10	<10			<10
10^{-1}	14	<10	<10	<10	<10	<10			<10
10^{-2}	32		26	26	25	26			30
10^{-3}									
10^{-4}									
10^{-5}									
10^{-6}									
10^{-7}									
10^{-8}									

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm			
Gasket stress [MPa]	ambient temperature	temperature 1 [200°C]	temperature 2 [400°C]
Stress level 1 [40 MPa]		0,86	0,81
Stress level 2 [120 MPa]		0,94	0,88
Q_{Smax} [MPa]			

Maximal applicable gasket stress Q_{Smax}		
Q_{Smax} [MPa] – ambient temperature	Q_{Smax} [MPa] – temperature 1 [200°C]	Q_{Smax} [MPa] – temperature 2 [400°C]
>220	>220	>220

Sekant unloading modulus of the gasket E_G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [200°C]	temperature 2 [400°C]
20	589	1525	2892
30	756	1977	2547
40	1155	1951	2423
50	1725	2227	3119
60	3304	3233	3722
80		ring contact 66.86MPa	
100			
120			
140			
160			
180			
200			
220			
225			

Note: the content of darkened cells was not determined respectively is unnecessary

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