

Company Address	<i>Flexitallic, www.flexitallic.com Tele:+44 1274 851273 Email: sales@flexitallic.com</i>
Gasket Type	<i>Thermiculite 815 - Thermiculite with a tanged steel core</i>
Thickness e_{GO} [mm]	<i>1.6mm</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}	26	<10	<10	<10	<10	<10			<10
10^{-2}	41			40	<10	<10			13
10^{-3}	55				15	13			19
10^{-4}	68				32	22			26
10^{-5}	81					40			35
10^{-6}	97					92			62
10^{-7}	125								114
10^{-8}									

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm			
Gasket stress [MPa]	ambient temperature	temperature 1 [175°C]	temperature 2 [260°C]
Stress level 1 [60 MPa]		0,91	
Stress level 2 [50 MPa]			0,83
Q_{Smax} [120/100 MPa]		0,78	0,80

Maximal applicable gasket stress Q_{Smax}		
Q_{Smax} [MPa] – ambient temperature	Q_{Smax} [MPa] – temperature 1 [175°C]	Q_{Smax} [MPa] – temperature 2 [260°C]
180	120	100

Sekant unloading modulus of the gasket E_G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [175°C]	temperature 2 [260°C]
20	794	1083	1563
30	1090	2195	3895
40	1633	3203	3886
50	1811	3026	4284
60	2044	3113	4191
80	3076	4712	5545
100	4754	5005	
120	4091		
140	3998		
160	5895		
180	5972		
200	6256		
210	5724		
225			

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

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