

Company Address	W.L. Gore & Associates GmbH, Hermann-Oberth-Str. 22, D-85640 Putzbrunn
Gasket Type	GORE™ Universal Pipe Gasket (Style 800)
Thickness e_{GO} [mm]	3

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}	<10	<10	<10	<10	<10	<10			<10
10^{-2}	<10	<10	<10	<10	<10	<10			<10
10^{-3}	30		11	<10	<10	<10			<10
10^{-4}	45			<10	<10	<10			<10
10^{-5}	64				<10	<10			<10
10^{-6}	108								129
10^{-7}									
10^{-8}									

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm			
Gasket stress [MPa]	ambient temperature	temperature 1 [150°C]	temperature 2 [230°C]
Stress level 1 [10 MPa]	0,69	0,41	0,27
Stress level 2 [30 MPa]	0,88	0,75	0,65
Q_{Smax} [150 MPa]			0,48

Maximal applicable gasket stress Q_{Smax}		
Q_{Smax} [MPa] – ambient temperature	Q_{Smax} [MPa] – temperature 1 [230°C]	Q_{Smax} [MPa] – temperature 2 [xx°C]
>225	150	

Sekant unloading modulus of the gasket E_G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [230°C]	temperature 2 [xx°C]
20	386	460	
30	603	568	
40	863	816	
50	821	1037	
60	1404	963	
80	1672	1044	
100	2248	1309	
120	2270	1188	
140	2430	1137	
160	2493		
180	2314		
200	2346		
220	2359		
225	2173		

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

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