

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]	1,5

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	24		<10	<10	<10	<10			<10
10 ⁻⁴	34		17	<10	<10	<10			<10
10 ⁻⁵	53			20	<10	<10			<10
10 ⁻⁶	107								104
10 ⁻⁷									
10 ⁻⁸									

Relaxation ratio P _{QR} for stiffness C = 500 kN/mm			
Gasket stress [MPa]	Raumtemperatur	Temperatur 1 [150°C]	Temperatur 2 [230°C]
Stress level 1 [10 MPa]	0,78	0,51	
Stress level 2 [30 MPa]	0,94	0,87	0,84
Q _{Smax} [150 MPa] ¹⁾			0,48

¹⁾ measured with 3,0mm gasket thickness

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 ²⁾	

²⁾ resulting from P_{QR} test with 3,0mm gasket thickness

Sekant unloading modulus of the gasket E _G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [230°C]	temperature 2 [xx°C]
20	297	407	
30	397	793	
40	630	707	
50	932	827	
60	1189	717	
80	1250	841	
100	1059	1004	
120	1193	1339	
140	1437	812	
160	1487		
180	1656		
200	1820		
220	1823		
225	1781		

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

Creation date of this sheet: 24.07.2007