

Company Address	W.L. Gore & Associates GmbH, Hermann-Oberth-Str. 22, D-85640 Putzbrunn
Gasket Type	GORE™ Joint Sealant DF05
Thickness e _{GO} [mm]	5 x 2
Note	all stresses are based on a gasket width of 5mm and a mean gasket diameter of 70mm

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	29		<10	<10	<10	<10			14
10 ⁻²	47			15	13	15			21
10 ⁻³	66				23	25			29
10 ⁻⁴	86					39			37
10 ⁻⁵	119								101
10 ⁻⁶									
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 [xx°C]
Stress level 1 [30 MPa]	0,73	0,22	
Stress level 2 [xx MPa]			
Q _{Smax} [xx MPa]			

Maximal applicable gasket stress Q _{Smax}		
Q _{Smax} [MPa] – ambient temperature	Q _{Smax} [MPa] – temperature 1 [150°C]	Q _{Smax} [MPa] – temperature 2 [xx°C]
>920	>920 ¹⁾	
¹⁾ not validated by P _{QR} test		

Sekant unloading modulus of the gasket E _G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [150°C]	temperature 2 [xx°C]
20	302	254	
30	417	543	
40	690	554	
50	1059	989	
60	880	872	
80	1407	875	
100	1618	1964	
120	2427	3681	
140	2157	1957	
160	1712	1820	
180	1848	2724	
200	2514	1782	
220	2019	1332	
240	1665	1255	
260	1708	1714	
280	1703	1162	
300	1988	1563	
320	1852	1575	
340	2004	1814	
360	1963	1813	
380	2002	1698	
400	2131	1526	
420	2446	1291	
440	2361	1309	
460	2561	1035	
480	2770	962	
500	2270	861	

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

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