Company Address	Triangle Fluid Controls Ltd, 269 University Avenue, Belleville, Ontario, Canada
Gasket Type	*D9000 with Glass filler*
Thickness e_{GO} [mm]	*Dimensions: 90 x 50 x 2.0 mm*

Minimum stress to seal $\mathbf{Q_{min/L}}$ (at assembly), $\mathbf{Q_{Smin/L}}$ (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}	12	10	10	10	10	10			10
10^{-1}	14	10	10	10	10	10			10
10^{-2}	16	10	10	10	10	10			10
10^{-3}	18	10	12	13	13	12			11
10^{-4}	20	16	34	43	59	30			17
10^{-5}									
10^{-6}									
10^{-7}									
10^{-8}									

Relaxation ratio $\mathbf{P_{QR}}$ for stiffness **C** = 500 kN/mm			
Gasket stress [MPa]	ambient temperature	temperature 1 [125℃]	temperature 2 [225℃]
Stress level 1 [20 MPa]	0,81	0,38	0,26
Stress level 2 [120 / 80 / 40 MPa]	0,85	0,50	0,23
Q_{Smax} [200 / 140 / 60 MPa]	0,81	0,67	0,32

Maximal applicable gasket stress $\mathbf{Q_{Smax}}$		
Q_{Smax} [MPa] – ambient temperature	Q_{Smax} [MPa] – temperature 1 [125℃]	Q_{Smax} [MPa] – temperature 2 [225℃]
200	140	60

Sekant unloading modulus of the gasket $\mathbf{E_G}$ [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [125℃]	temperature 2 [225℃]
20	1712	665	684
30	2094	1151	780
40	2369	1187	682
50	3524	1382	848
60	3804	2042	1427
80	4715	1696	
100	4290	1887	
120	2810	2335	
140	3623	4105	
160	3447		
180	2766		
200	2628		
220			
225			

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

Creation date of this sheet: *25.05.2010*