

Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany
Gasket Type	GYLON® Style 3504
Thickness e_{GO} [mm]	2.0 mm

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}	13,2	<10	<10	<10	<10	<10			<10
10^{-3}	19,4	13,1	<10	<10	<10	<10			<10
10^{-4}	49,3			45,7	33,8	33,5			30,6
10^{-5}									
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 [250°C]
Stress level 1 [10 MPa]	0,90	0,46	0,31
Stress level 2 [20 MPa]	0,78	0,41	0,27
Q_{Smax} [200 / 80 / 60 MPa]	0,95	0,55	0,35

Maximal applicable gasket stress Q_{Smax}		
Q_{Smax} [MPa] – ambient temperature	Q_{Smax} [MPa] – temperature 1 [150°C]	Q_{Smax} [MPa] – temperature 2 [250°C]
200	80	60

Sekant unloading modulus of the gasket E_G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [150°C]	temperature 2 [250°C]
20	675	485	381
30	970	763	563
40	1182	853	601
50	1412	1105	727
60	1598	1130	842
80	1970	1204	
100	2102		
120	2140		
140	1997		
160	2010		
180	2134		
200	1712		
220			
225			

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

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