

Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany
Gasket Type	GYLON® Style 3501E
Thickness e_{GO} [mm]	2 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}	11,9	<10	<10	<10	<10	<10			<10
10^{-1}	16,7	<10	<10	<10	<10	<10			<10
10^{-2}	19,5	18,2	<10	<10	<10	<10			<10
10^{-3}	31,1		11,4	<10	<10	<10			<10
10^{-4}	38,1		18,5	15,3	10,1	<10			<10
10^{-5}	82,1				69,5	56,4			57,7
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]	0,92	0,84	0,65
Stress level 2 [30 MPa]	0,93	0,75	0,53
Q_{Smax} [230 / 180 / 140 MPa]	0,92	0,72	0,59

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]
230	180	140

Sekant unloading modulus of the gasket E_G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [150°C]	temperature 2 [250°C]
20	1302	1011	809
30	1954	1463	1206
40	2537	1551	1254
50	2310	2035	1177
60	3278	2023	1394
80	3622	2112	1592
100	5156	2140	1891
120	4428	2446	1715
140	4582	2742	2002
160	4087	2613	
180	4337	2687	
200	3770		
220	3888		
225	3903		

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

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