

Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany
Gasket Type	GYLON® Style 3504
Thickness $e_{GO}$ [mm]	3.2 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]
$10^{-0}$	<10	<10	<10	<10	<10	<10			<10
$10^{-1}$	<10	<10	<10	<10	<10	<10			<10
$10^{-2}$	11,4	<10	<10	<10	<10	<10			<10
$10^{-3}$	18,6	18,0	12,9	13,5	12,2	11,3			11,4
$10^{-4}$	61,6				46,7	42,7			41,3
$10^{-5}$									
$10^{-6}$									
$10^{-7}$									
$10^{-8}$									

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]	0,79	0,41	0,28
Stress level 2 [20 MPa]	0,75	0,37	0,23
$Q_{Smax}$ [180 / 80 / 40 MPa]	0,90	0,41	0,19

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]
180	80	40

Sekant unloading modulus of the gasket $E_G$ [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [150°C]	temperature 2 [250°C]
20	728	425	375
30	1089	542	421
40	1259	878	516
50	1867	919	
60	2244	913	
80	2240	1246	
100	2904		
120	3322		
140	2686		
160	2346		
180	2725		
200			
220			
225			

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

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