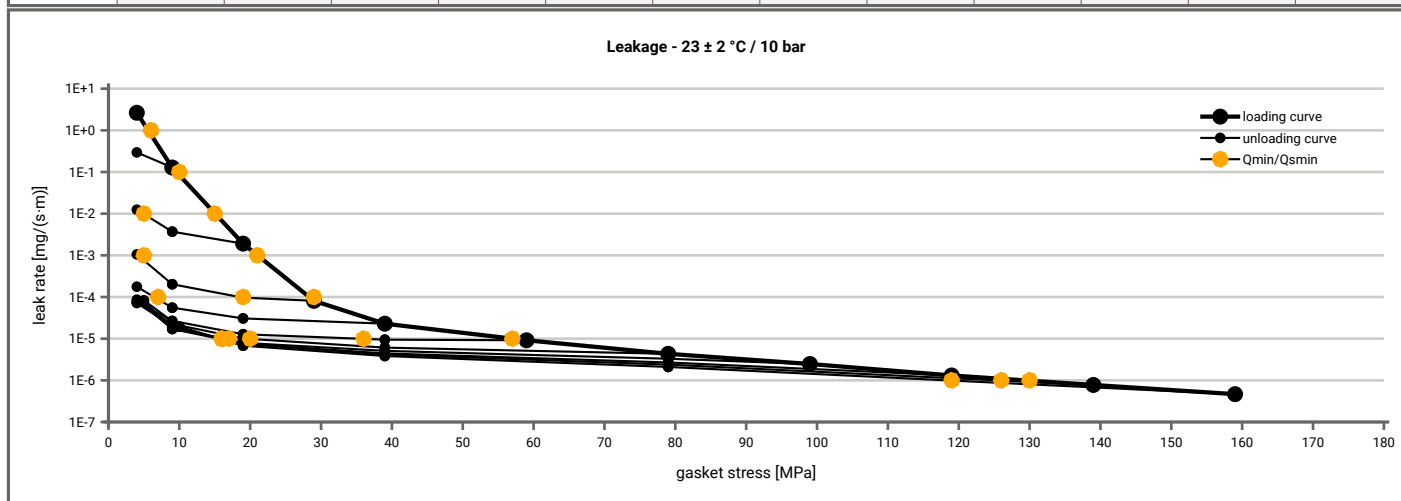


Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to DIN EN 13555 2005-2
Product name	GYLON® Style 3501E	
Product dimensions	92 x 49 x 3.2 mm (DIN EN 1514-1 1997-8)	

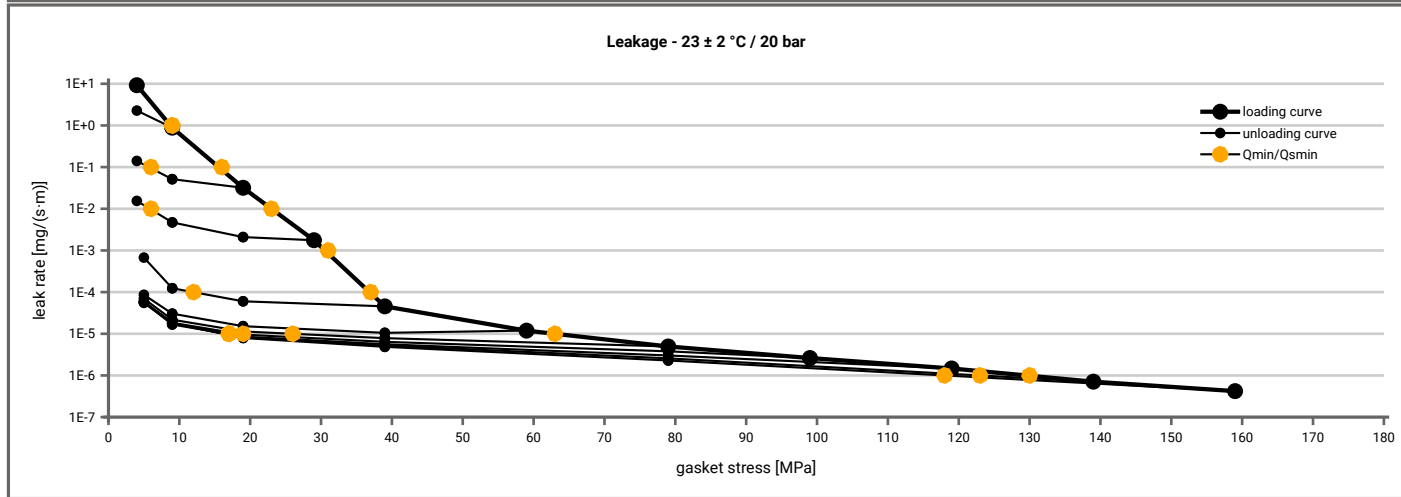
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ bar ($T = 23 \pm 2$ °C)												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E+1	5		5	5	5	5	5	5	5	5	5	5
1E-0	6		5	5	5	5	5	5	5	5	5	5
1E-1	10			5	5	5	5	5	5	5	5	5
1E-2	16			6	5	5	5	5	5	5	5	5
1E-3	22				5	5	5	5	5	5	5	5
1E-4	29				19	7	5	5	5	5	5	5
1E-5	58						36	20	17	17	16	16
1E-6	130										126	119
1E-7												
1E-8												



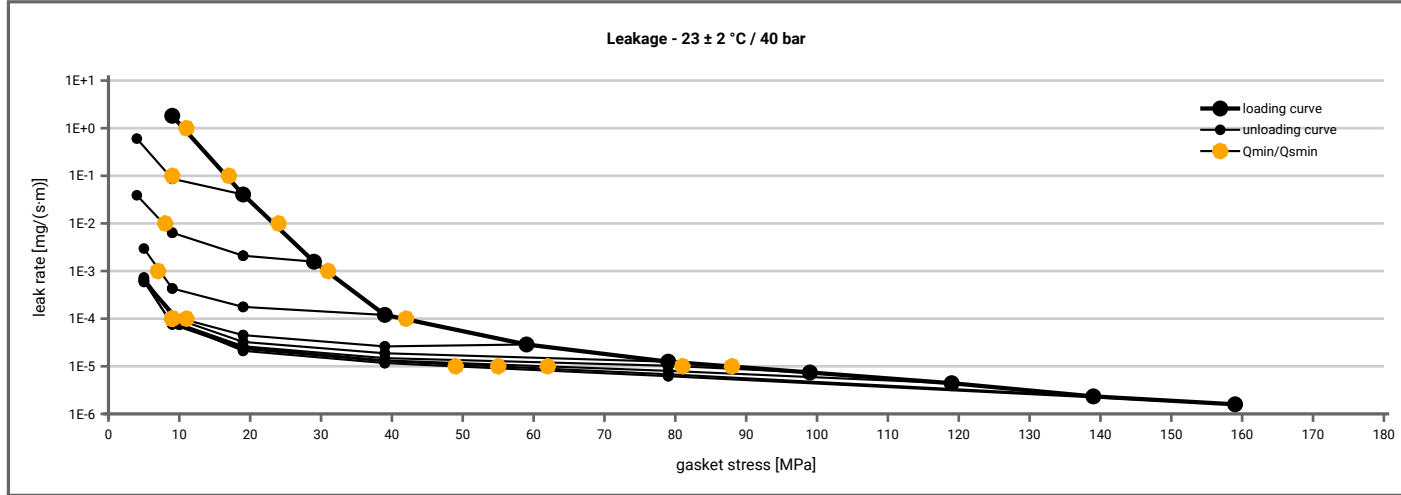
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 20$ bar ($T = 23 \pm 2$ °C)												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E+1	5		5	5	5	5	5	5	5	5	5	5
1E-0	10		9	5	5	5	5	5	5	5	5	5
1E-1	16			7	5	5	5	5	5	5	5	5
1E-2	24				7	5	5	5	5	5	5	5
1E-3	31					5	5	5	5	5	5	5
1E-4	38					13	5	5	5	5	5	5
1E-5	64							27	19	17	17	17
1E-6	130										124	119
1E-7												
1E-8												

Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 2	Creation date of this sheet: 2013-09-16
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Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to DIN EN 13555 2005-2
Product name	GYLON® Style 3501E	
Product dimensions	92 x 49 x 3.2 mm (DIN EN 1514-1 1997-8)	



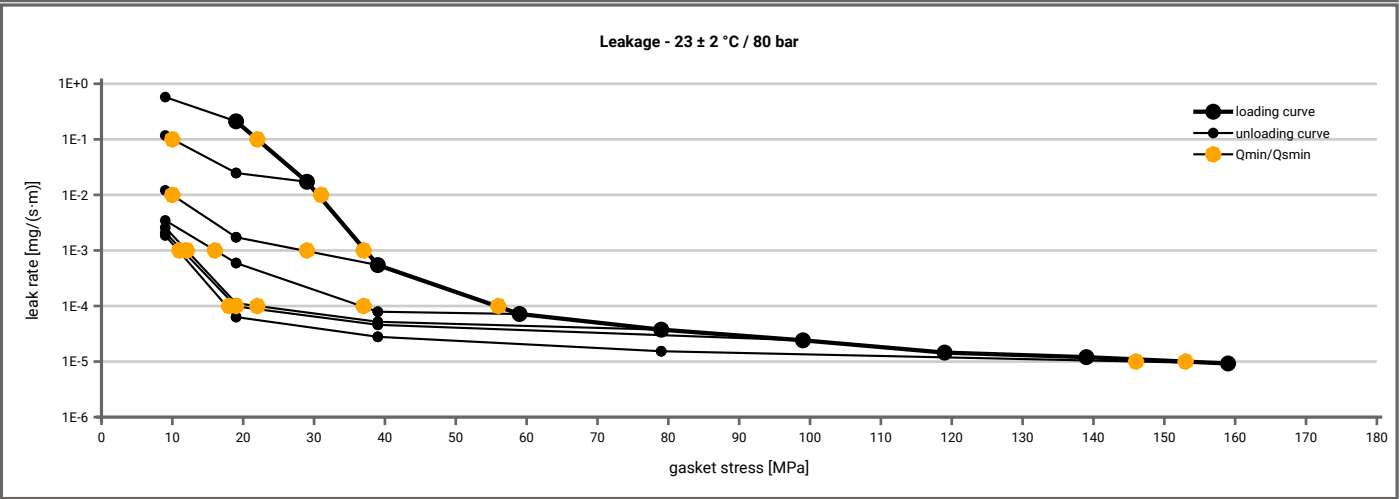
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)											
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]									
		$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E+1	10		5	5	5	5	5	5	5	5	5
1E-0	11		5	5	5	5	5	5	5	5	5
1E-1	17		10	5	5	5	5	5	5	5	5
1E-2	24			9	5	5	5	5	5	5	5
1E-3	32				8	5	5	5	5	5	5
1E-4	42					11	10	9	9	9	9
1E-5	88							81	62	55	50
1E-6											
1E-7											
1E-8											



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 80 bar (T = 23 ± 2 °C)										
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		$Q_A = 20$ [MPa]	$Q_A = 30$ [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]	$Q_A = 159$ [MPa]
1E-0	20	10	10	10	10	10	10			10
1E-1	23		11	10	10	10	10			10
1E-2	31			11	10	10	10			10
1E-3	38			29	17	13	12			12
1E-4	56				37	23	20			18
1E-5	153									147
1E-6										
1E-7										
1E-8										

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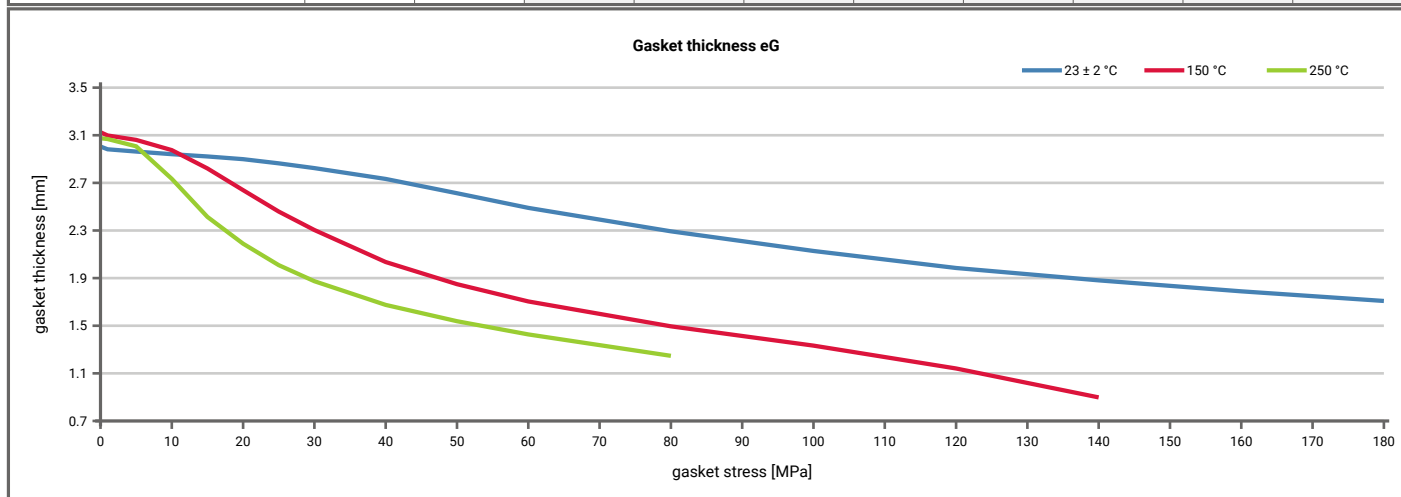
Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to DIN EN 13555 2005-2
Product name	GYLON® Style 3501E	
Product dimensions	92 x 49 x 3.2 mm (DIN EN 1514-1 1997-8)	



Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to DIN EN 13555 2005-2
Product name	GYLON® Style 3501E	
Product dimensions	92 x 49 x 3.2 mm (DIN EN 1514-1 1997-8)	

Relaxation ratio P _{QR} for stiffness C = 500 [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [250 °C]					
	P _{QR}	Δe _{Gc} [μm]	P _{QR}	Δe _{Gc} [μm]	P _{QR}	Δe _{Gc} [μm]	P _{QR}	Δe _{Gc} [μm]	P _{QR}	Δe _{Gc} [μm]
Stress level 1 [10 MPa]	0.86	12	0.67	28	0.47	44				
Stress level 2 [30 MPa]	0.90	25	0.48	132	0.25	189				
P _{QR} and Δe _{Gc} at maximum gasket stress to be applied Q _{smax}										
P _{QR} at Q _{smax}	0.88	181	0.51	582	0.25	507				
Q _{smax}	180 MPa		140 MPa		80 MPa					

Sekant unloading modulus of the gasket E _G [MPa] and gasket thickness e _G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [250 °C]					
	E _G [MPa]	e _G [mm]	E _G [MPa]	e _G [mm]	E _G [MPa]	e _G [mm]	E _G [MPa]	e _G [mm]	E _G [MPa]	e _G [mm]
0	0	3.005	0	3.125	0	3.075				
1	0	2.982	0	3.098	0	3.068				
5	2404	2.963	815	3.061	460	3.007				
10	1367	2.941	801	2.975	498	2.734				
15	1874	2.922	828	2.821	615	2.414				
20	1984	2.899	1065	2.639	631	2.189				
25	1880	2.864	1197	2.459	717	2.009				
30	2109	2.824	1646	2.304	948	1.874				
40	2797	2.733	1643	2.035	1183	1.675				
50	2887	2.613	1918	1.849	1417	1.538				
60	3278	2.490	2383	1.704	1897	1.427				
80	4527	2.293	2467	1.495	2006	1.247				
100	5852	2.128	2655	1.333						
120	4950	1.985	5438	1.141						
140	5758	1.881	3620	0.898						
160	6988	1.789								
180	5608	1.708								



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