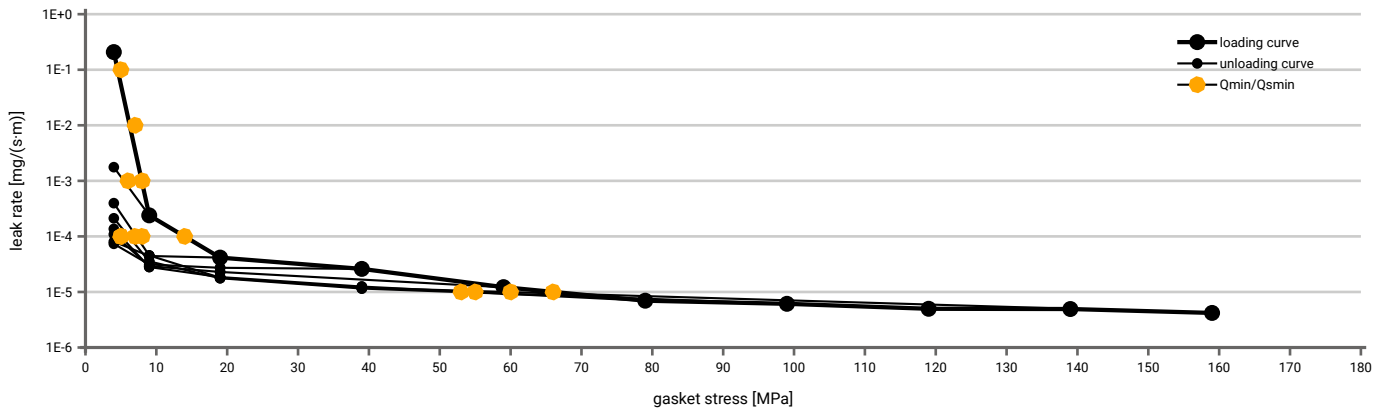
Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to EN 13555 2021-4
Product name	Gylon® Style 3504	
Product dimensions	92 x 49 x 2 mm	

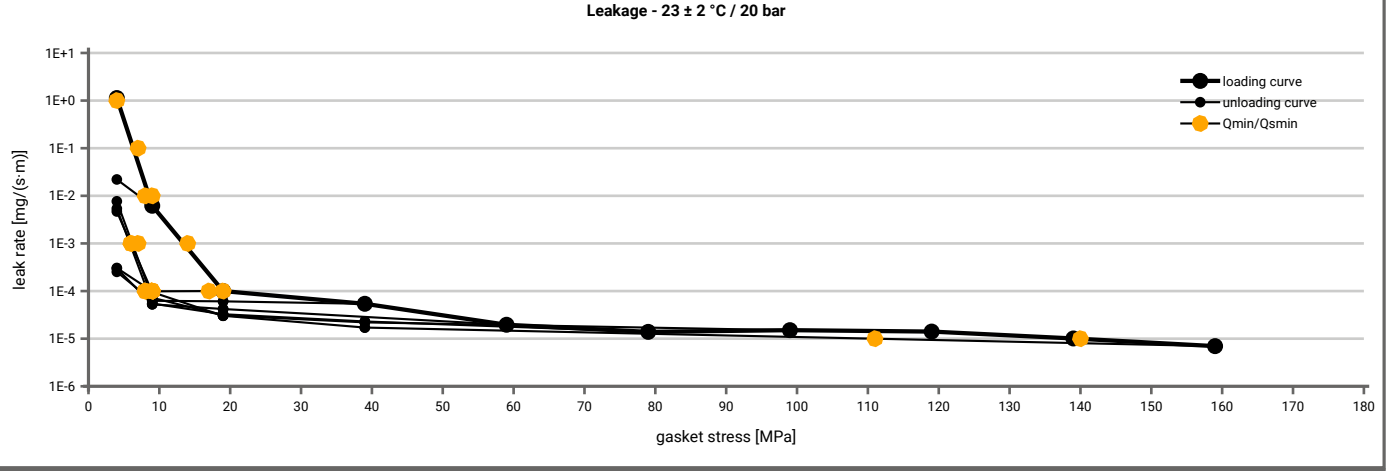
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 10 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]									
		Q_A = 4.8 [MPa]	Q_A = 10 [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]
1E-0	5		5	5	5	5	5	5			5
1E-1	5		5	5	5	5	5	5			5
1E-2	7		5	5	5	5	5	5			5
1E-3	9		6	5	5	5	5	5			5
1E-4	15			5	5	5	6	7			8
1E-5	67						55	53			60
1E-6											
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 ± 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 = 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
1E-0	5		5	5	5	5	5	5			5
1E-1	7		5	5	5	5	5	5			5
1E-2	9		8	5	5	5	5	5			5
1E-3	14			5	5	5	7	7			7
1E-4	20			18	8	8	9	9			10
1E-5	140										112
1E-6											
1E-7											
1E-8											

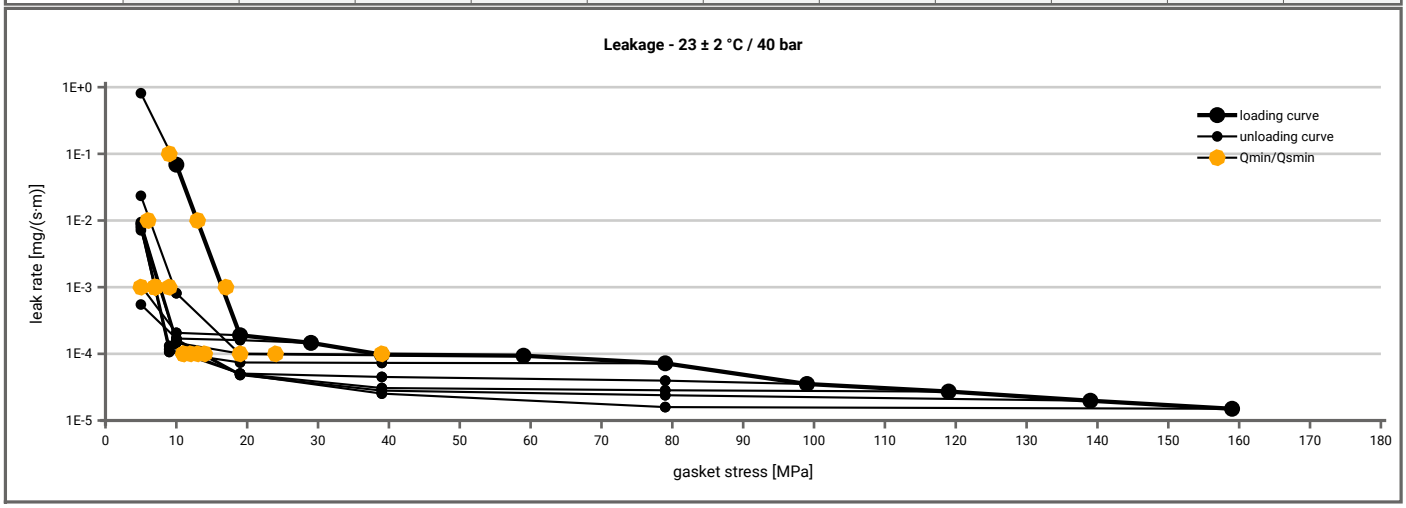


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **4**	Creation date of this sheet: **2021-03-25**

Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to EN 13555 2021-4
Product name	Gylon® Style 3504	
Product dimensions	92 x 49 x 2 mm	

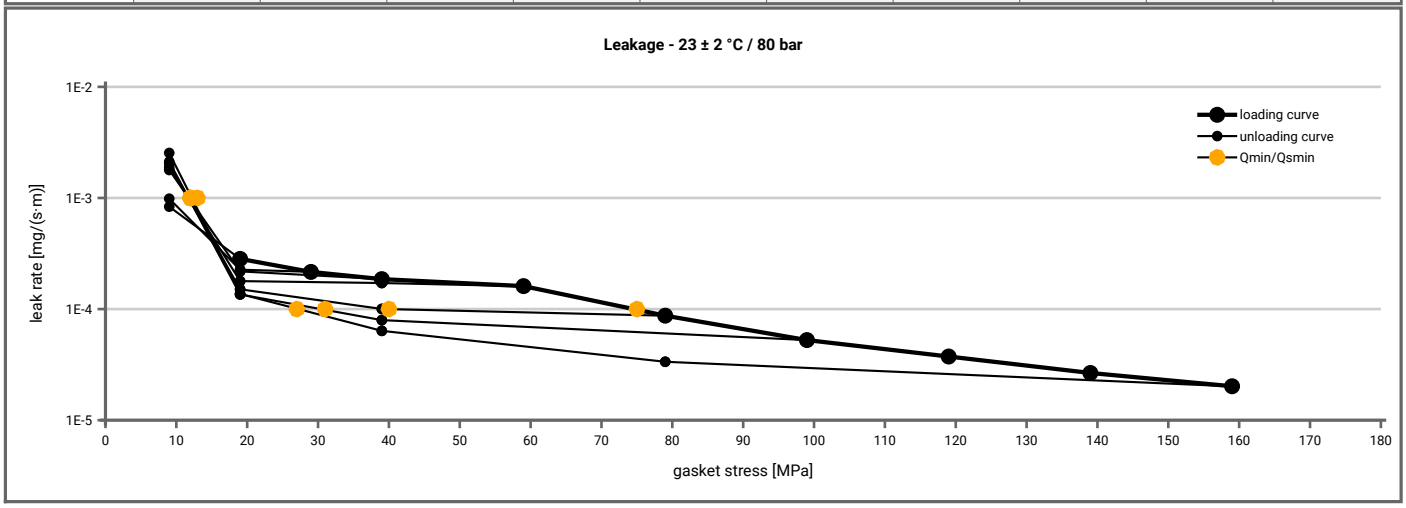
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)

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-0	10	5	5	5	5	5	5	5	5	5	5
1E-1	10	9	5	5	5	5	5	5	5	5	5
1E-2	13		5	5	5	6	5	5	5	5	5
1E-3	17		5	5	8	10	7	7	8	8	8
1E-4	39				24	20	12	12	13	14	14
1E-5											
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 = 160 [MPa]
1E-0	20	10	10	10	10	10	10			10
1E-1	20	10	10	10	10	10	10			10
1E-2	20	10	10	10	10	10	10			10
1E-3	20	10	10	13	12	12	12			13
1E-4	75					41	31			28
1E-5										
1E-6										
1E-7										
1E-8										

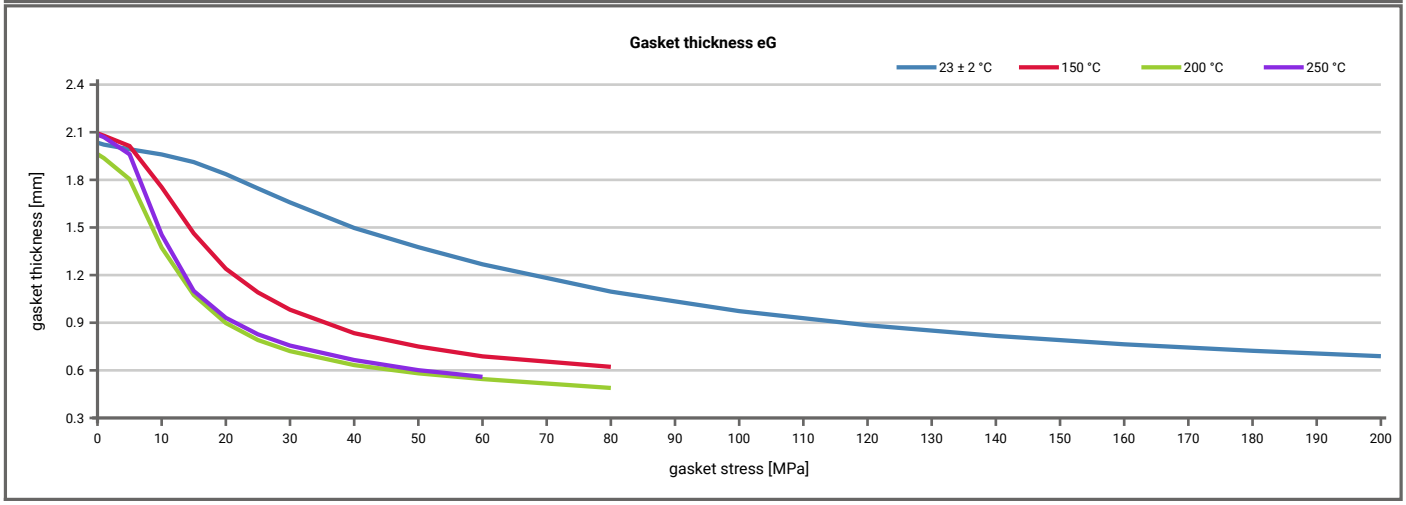


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **4**	Creation date of this sheet: **2021-03-25**

Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to EN 13555 2021-4
Product name	Gylon® Style 3504	
Product dimensions	92 x 49 x 2 mm	

Relaxation ratio P_{QR} for stiffness C = 500 [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [200 °C]		Temperature 3 [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]	0.80	17	0.46	46	0.41	50	0.31	58		
Stress level 2 [20 MPa]	0.78	38	0.41	99	0.32	115	0.27	123		
Stress level 3 [25 MPa]					0.33	141	0.25	157		
Stress level 4 [30 MPa]	0.80	50	0.39	154	0.32	171	0.23	194		
Stress level 5 [50 MPa]	0.81	82								
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.95	92	0.55	302	0.52	326	0.36	325		
Q_{smax}	200 MPa		80 MPa		80 MPa		60 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 [200 °C]		Temperature 3 [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	2.034	0	2.093	0	1.962	0	2.085		
1	0	2.022	0	2.078	0	1.937	0	2.069		
5	654	1.993	388	2.013	277	1.804	226	1.961		
10	809	1.960	321	1.754	341	1.373	270	1.454		
15	938	1.912	484	1.463	464	1.075	347	1.100		
20	930	1.836	474	1.240	620	0.898	369	0.931		
25	921	1.746	630	1.091	758	0.791	463	0.827		
30	1248	1.658	951	0.982	878	0.721	655	0.756		
40	1700	1.497	887	0.834	1311	0.633	746	0.665		
50	1799	1.376	861	0.750	1790	0.581	651	0.601		
60	2185	1.268	997	0.688	2067	0.545	932	0.559		
80	2587	1.096	1497	0.622	3604	0.489				
100	3319	0.973								
120	3451	0.884								
140	3589	0.817								
160	3333	0.764								
180	3245	0.723								
200	3254	0.689								



Fields marked: Intrusion into bore was detected. Determined after the corresponding P_{QR}-Test.

Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **4**	Creation date of this sheet: **2021-03-25**