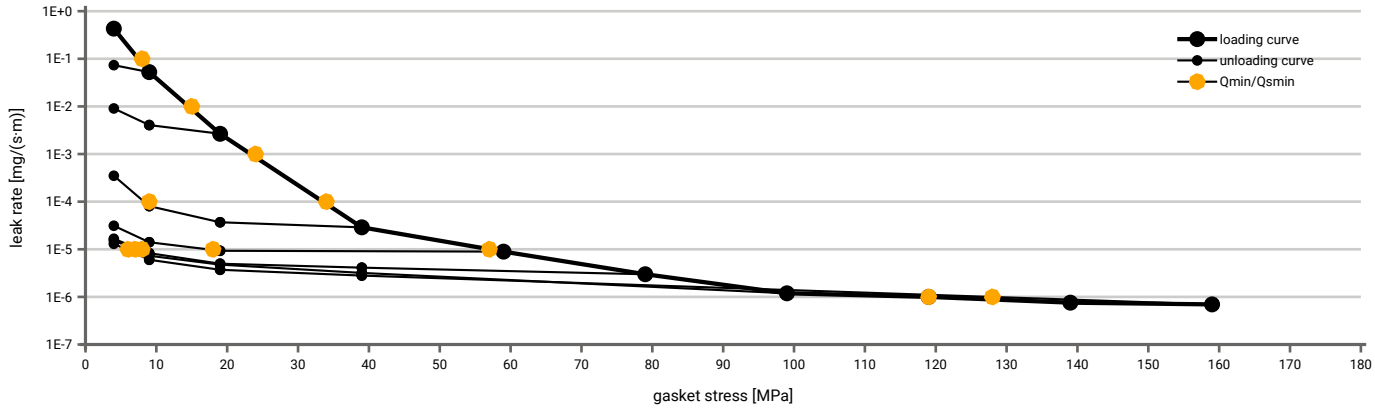
Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to
Product name	GYLON® Style 3501E	**EN 13555**
Product dimensions	92 x 49 x 2 mm	**2021-4**

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 = 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-0	5		5	5	5	5	5	5			5
1E-1	8		5	5	5	5	5	5			5
1E-2	15			5	5	5	5	5			5
1E-3	24				5	5	5	5			5
1E-4	34				9	5	5	5			5
1E-5	58					18	9	8			7
1E-6	120										129
1E-7											
1E-8											

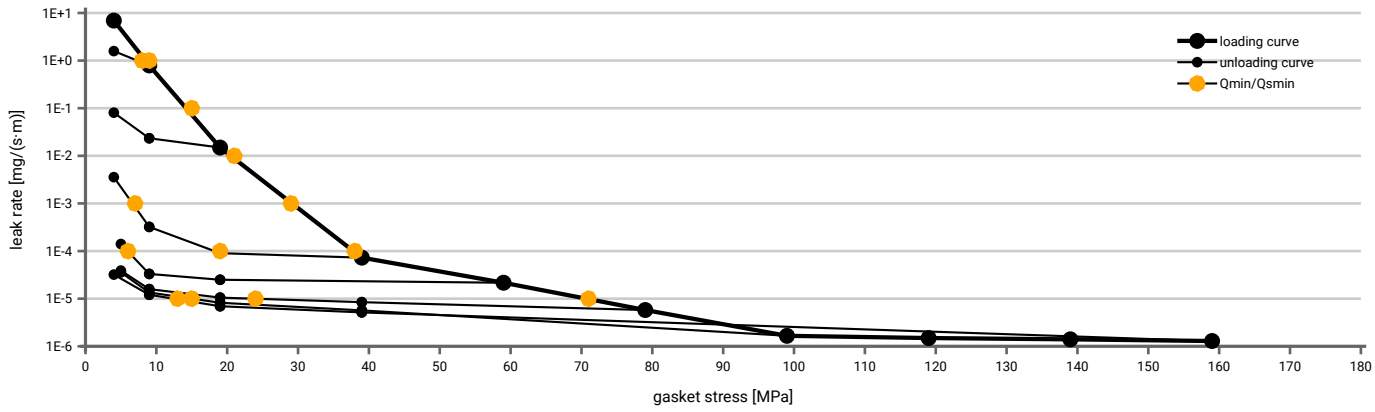
Leakage - 23 ± 2 °C / 10 bar



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	9		8	5	5	5	5	5			5
1E-1	15			5	5	5	5	5			5
1E-2	21				5	5	5	5			5
1E-3	30				8	5	5	5			5
1E-4	39				19	6	5	5			5
1E-5	71						24	16			13
1E-6											
1E-7											
1E-8											

Leakage - 23 ± 2 °C / 20 bar



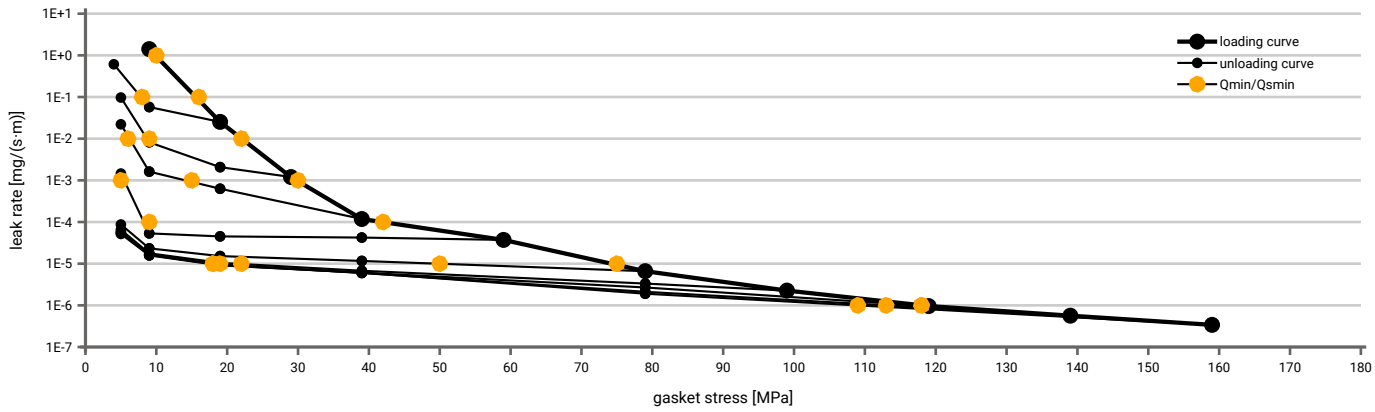
Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **3**	Creation date of this sheet: **2021-03-24**

Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to
Product name	GYLON® Style 3501E	**EN 13555**
Product dimensions	92 x 49 x 2 mm	**2021-4**

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	16		9	5	5	5	5	5	5	5	5
1E-2	23			10	6	5	5	5	5	5	5
1E-3	31				15	6	5	5	5	5	5
1E-4	43					9	5	5	5	5	5
1E-5	75						50	22	18	19	18
1E-6	119								118	114	110
1E-7											
1E-8											

Leakage - 23 ± 2 °C / 40 bar



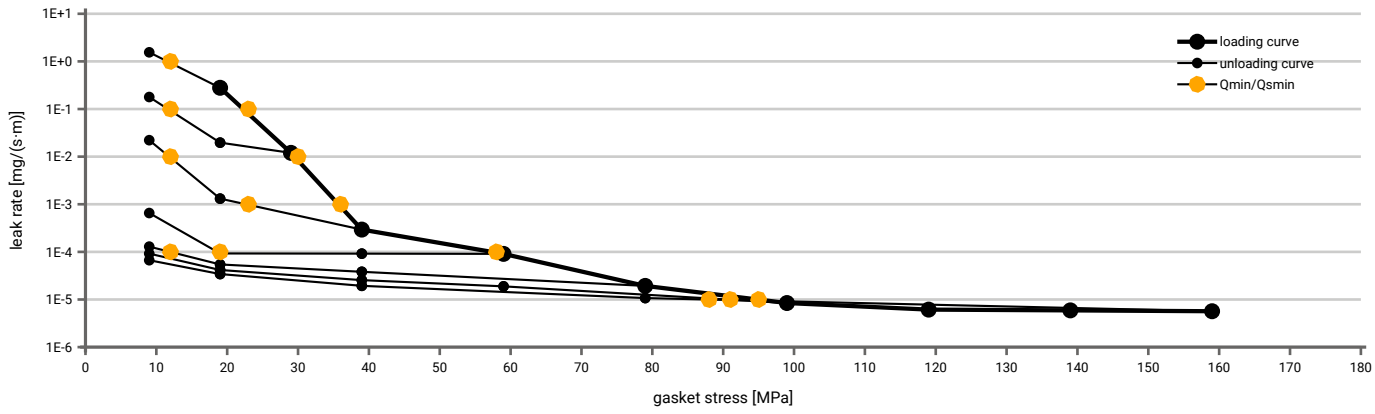
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 80 bar (T = 23 ± 2 °C)

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+1	20	10	10	10	10	10	10			10
1E-0	20	12	10	10	10	10	10			10
1E-1	23		12	10	10	10	10			10
1E-2	30			13	10	10	10			10
1E-3	36			23	10	10	10			10
1E-4	58				19	13	10			10
1E-5	96						91			88
1E-6										
1E-7										
1E-8										

Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **3**	Creation date of this sheet: **2021-03-24**

Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to **EN 13555 2021-4**
Product name	GYLON® Style 3501E	
Product dimensions	92 x 49 x 2 mm	

Leakage - 23 ± 2 °C / 80 bar



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **3**	Creation date of this sheet: **2021-03-24**

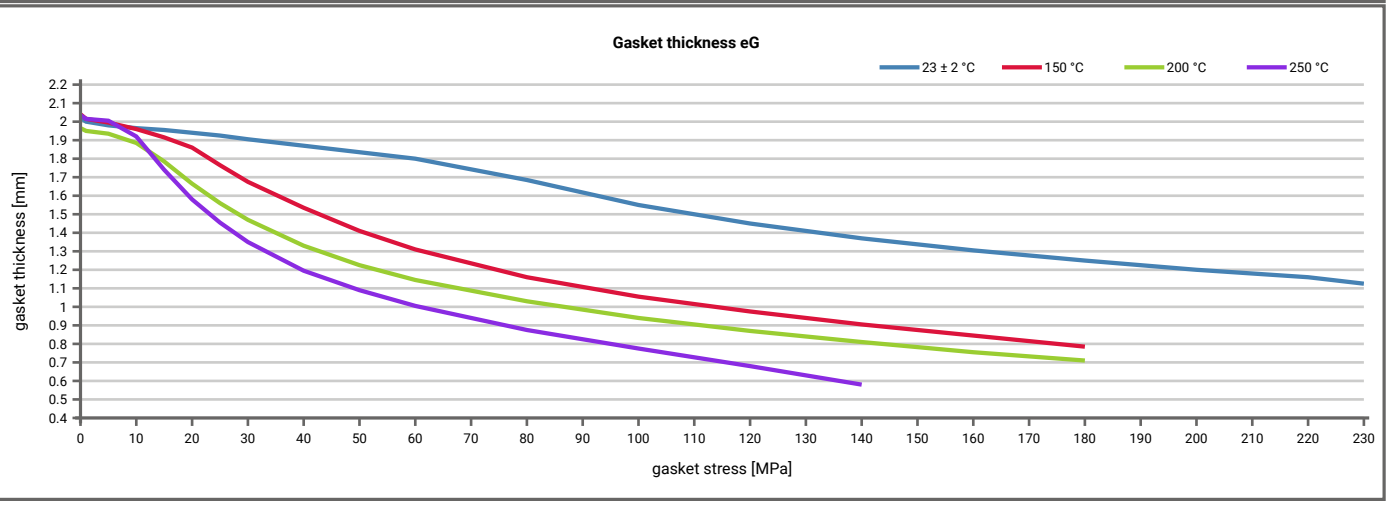
Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to **EN 13555 2021-4**
Product name	GYLON® Style 3501E	
Product dimensions	92 x 49 x 2 mm	

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]	0.95	4	0.81	16	0.81	16	0.62	32		
Stress level 2 [30 MPa]	0.95	13	0.56	112	0.45	138	0.33	169		
Stress level 3 [50 MPa]							0.31	290		
Stress level 4 [60 MPa]			0.48	262	0.41	297				
Stress level 5 [80 MPa]	0.83	117								
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.94	125	0.74	393	0.74	400	0.58	493		
Q_{smax}	230 MPa		180 MPa		180 MPa		140 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	2.020	0	2.040	0	1.965	0	2.035		
1	0	2.000	0	2.015	0	1.950	0	2.015		
5	1515	1.980	858	1.995	833	1.935	581	2.005		
10	1348	1.965	722	1.960	807	1.885	630	1.920		
15	1734	1.955	833	1.915	710	1.785	660	1.740		
20	1487	1.940	1021	1.860	974	1.665	911	1.580		
25	1905	1.925	1304	1.765	959	1.560	1220	1.455		
30	1971	1.905	1484	1.675	1142	1.470	1013	1.350		
40	2476	1.870	1892	1.535	1495	1.330	1327	1.195		
50	2761	1.835	1890	1.410	1640	1.225	1875	1.090		
60	3795	1.800	2452	1.310	1786	1.145	1645	1.005		
80	6922	1.685	2588	1.160	2325	1.030	2066	0.875		
100	7360	1.550	2486	1.055	2352	0.940	2679	0.775		
120	8145	1.450	3616	0.975	2315	0.870	3096	0.680		
140	6099	1.370	3265	0.905	2470	0.810	4554	0.580		
160	7401	1.305	3265	0.845	2531	0.755				
180	7533	1.250	5417	0.785	2926	0.710				
200	7788	1.200								
220	6563	1.160								
230	6358	1.125								



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