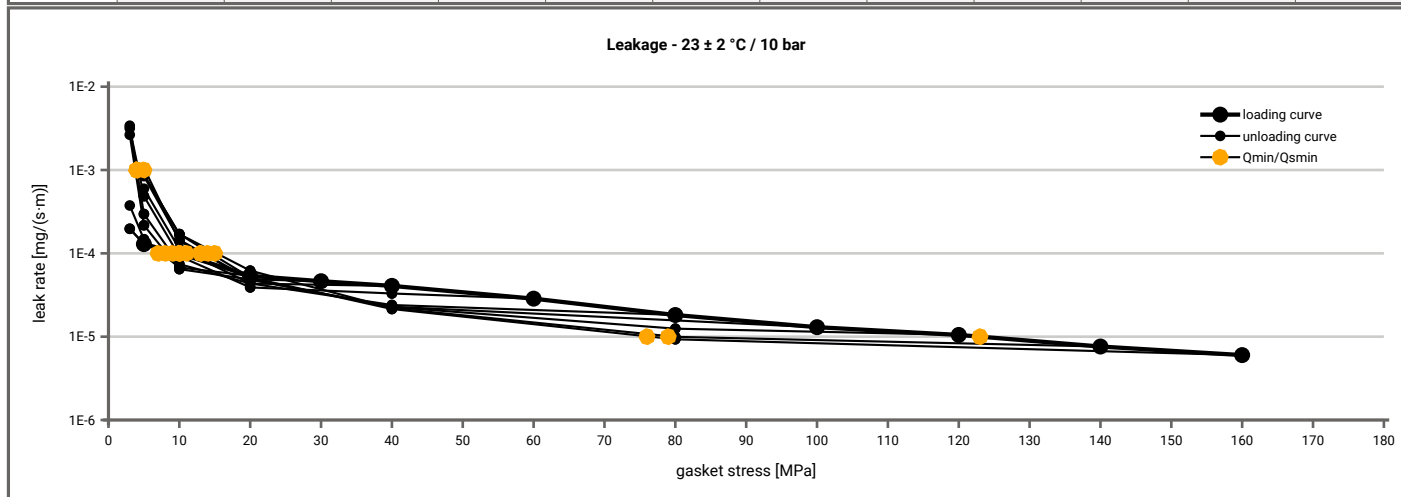
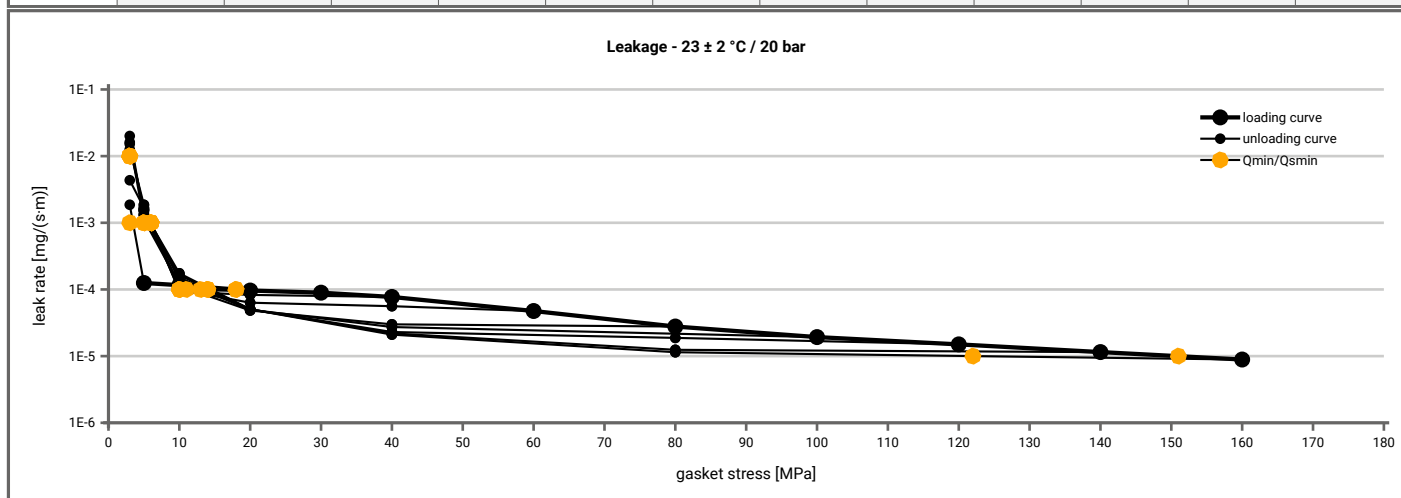


Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to EN 13555 2021-4
Product name	STRESS-SAVER® GYLON® 3504	
Product dimensions	92 x 48 x 3.8 mm	

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-0	5	3	3	3	3	3	3	5	5	5	5	5
1E-1	5	3	3	3	3	3	3	5	5	5	5	5
1E-2	5	3	3	3	3	3	3	5	5	5	5	5
1E-3	5	3	3	3	4	4	4	5	5	5	5	5
1E-4	10		10	8	8	9	10	11	13	14	15	15
1E-5	123										80	77
1E-6												
1E-7												



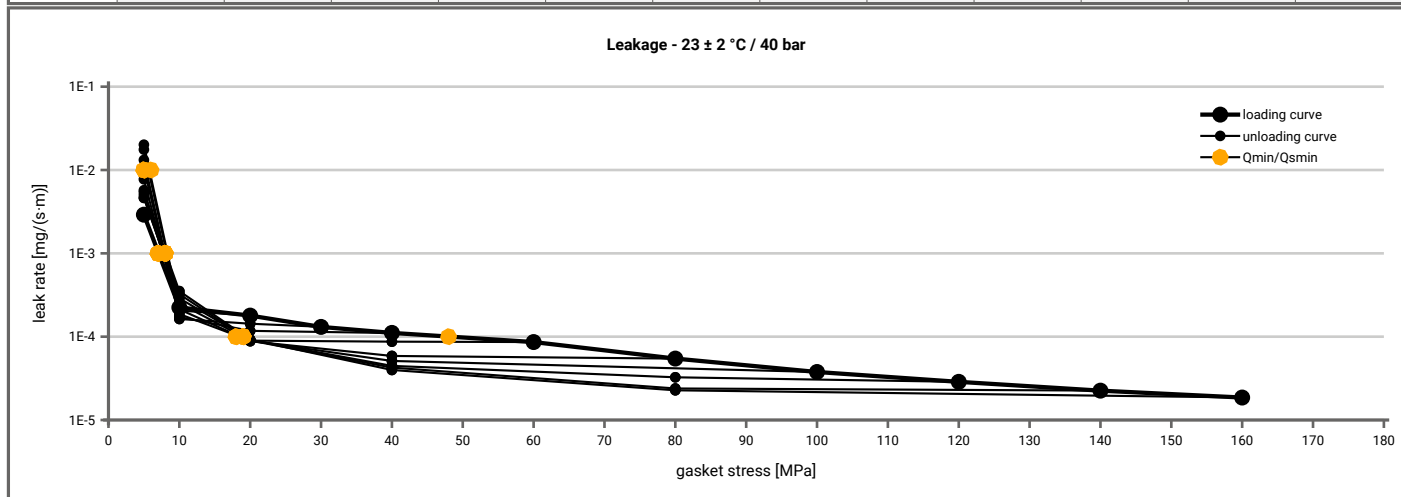
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 20$ bar ($T = 23 \pm 2$ °C)												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5.2$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E-0	5	3	3	3	3	3	3	5	5	5	5	5
1E-1	5	3	3	3	3	3	3	5	5	5	5	5
1E-2	5	3	4	4	4	4	3	5	5	5	5	5
1E-3	5	4	6	5	6	6	6	6	6	6	6	6
1E-4	18			18	10	10	10	12	13	14	14	15
1E-5	151											123
1E-6												
1E-7												



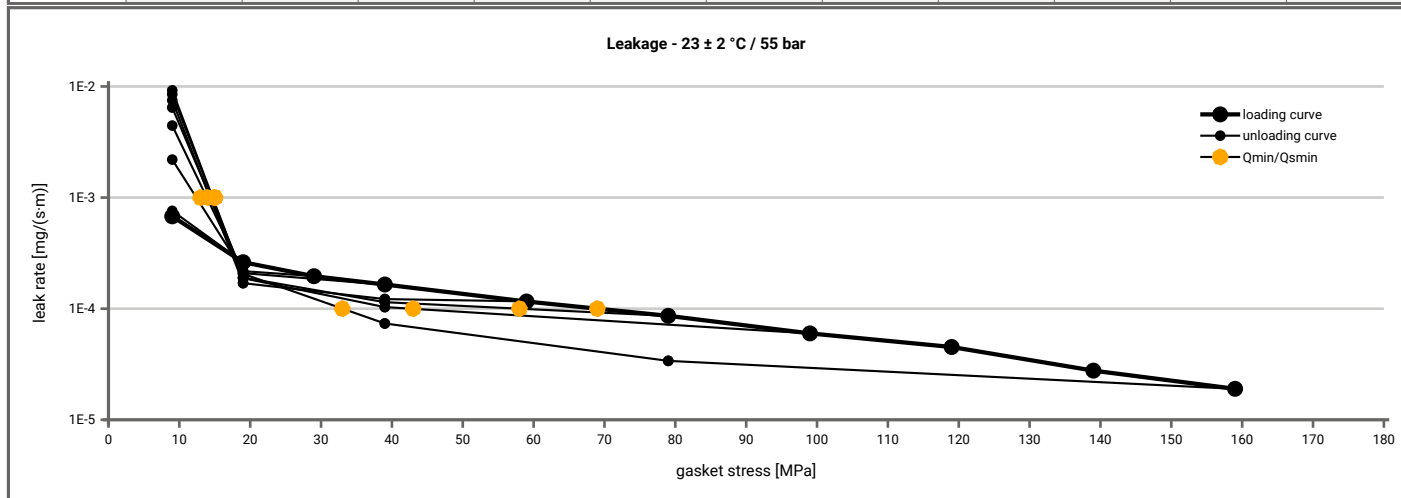
Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2022-03-15
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Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to EN 13555 2021-4
Product name	STRESS-SAVER® GYLON® 3504	
Product dimensions	92 x 48 x 3.8 mm	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ 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-0	5		5	5	5	5	5	5	5	5	5	5
1E-1	5		5	5	5	5	5	5	5	5	5	5
1E-2	5		6	6	6	5	5	5	5	5	5	5
1E-3	7		9	8	8	8	8	8	8	8	8	8
1E-4	48						19	19	19	19	19	20
1E-5												
1E-6												
1E-7												



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 55$ bar ($T = 23 \pm 2$ °C)											
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]									
		$Q_A = 9.8$ [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		10	10	10	10	10	10			10
1E-1	10		10	10	10	10	10	10			10
1E-2	10		10	10	10	10	10	10			10
1E-3	10		10	13	15	15	15	16			15
1E-4	70						59	43			34
1E-5											
1E-6											
1E-7											

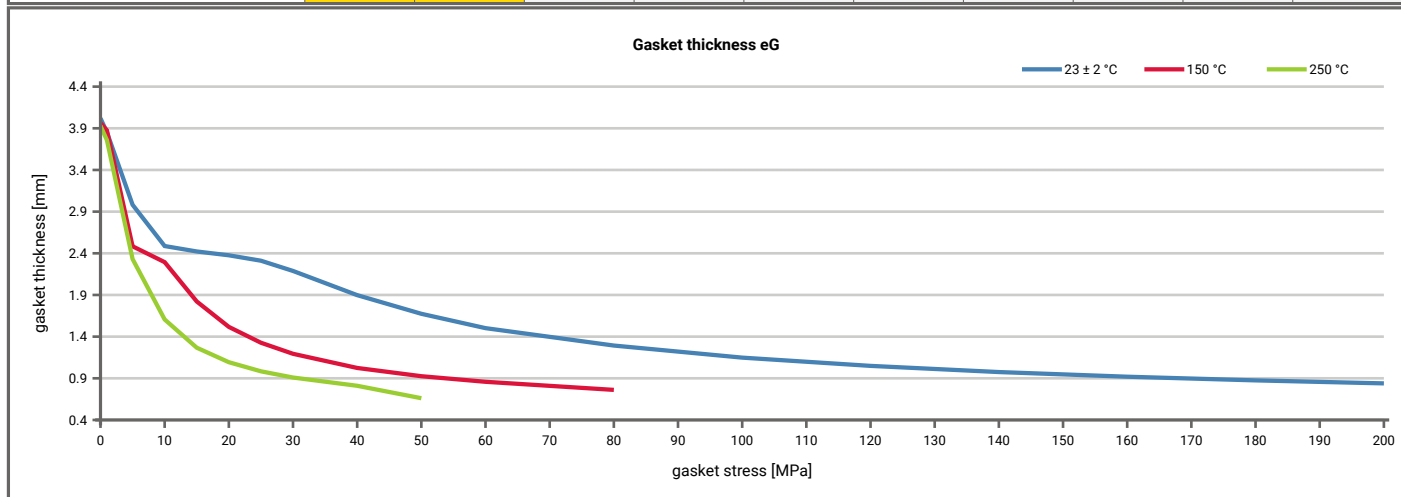


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2022-03-15
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Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to EN 13555 2021-4
Product name	STRESS-SAVER® GYLON® 3504	
Product dimensions	92 x 48 x 3.8 mm	

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]	0.83	15	0.63	32	0.40	51				
Stress level 2 [20 MPa]	0.86	24	0.43	97	0.24	131				
Stress level 3 [30 MPa]	0.81	50								
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.95	94	0.51	335	0.25	320				
Q_{smax}	200 MPa		80 MPa		50 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	4.020	0	3.965	0	3.930				
1	0	3.852	0	3.875	0	3.758				
5	126	2.982	138	2.484	173	2.331				
10	270	2.487	249	2.294	220	1.606				
15	705	2.422	313	1.822	320	1.267				
20	833	2.376	377	1.517	419	1.093				
25	1042	2.311	525	1.327	516	0.984				
30	1059	2.188	565	1.194	628	0.909				
40	1269	1.898	640	1.024	809	0.810				
50	1659	1.674	757	0.925	1440	0.661				
60	1907	1.502	1015	0.858						
80	3223	1.293	1339	0.761						
100	2940	1.148								
120	2862	1.049								
140	2991	0.975								
160	2635	0.919								
180	2853	0.875								
200	2791	0.839								



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