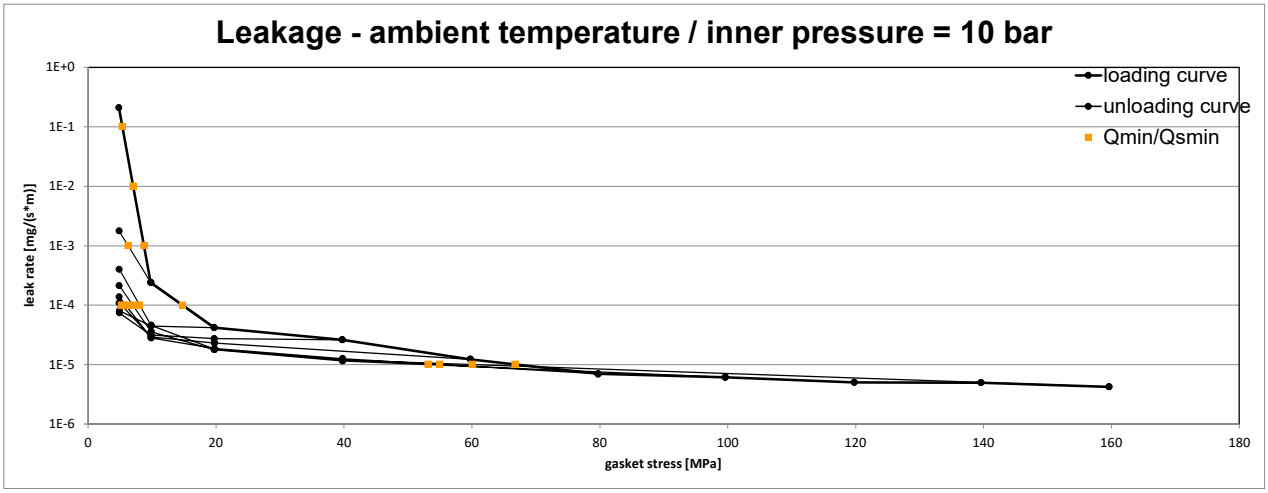
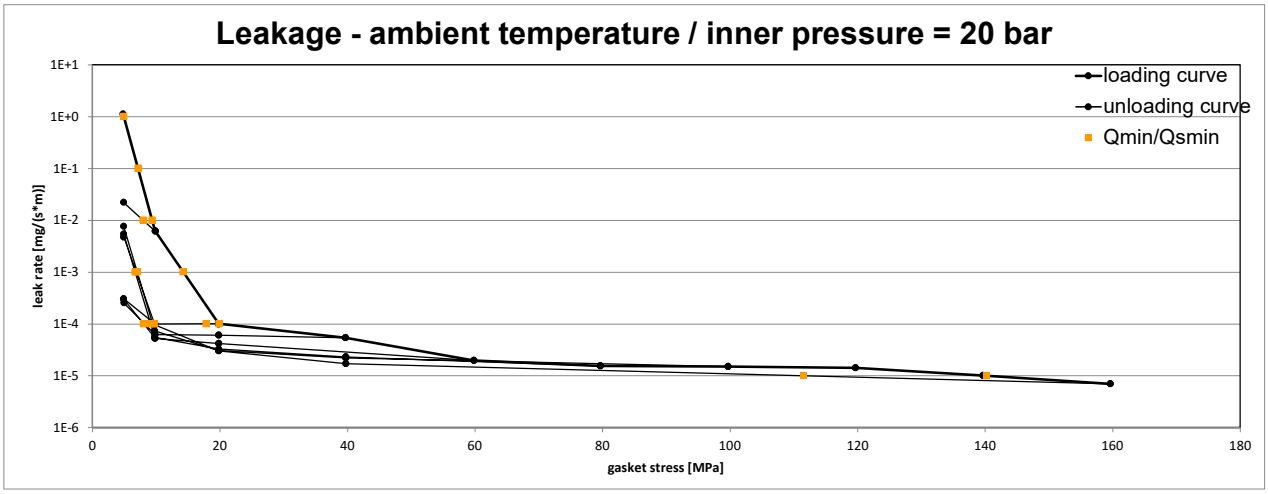
Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany	According to EN 13555 2021-04
Gasket Type	GYLON© Style 3504	
Sealing element dimensions [mm]	92 x 49 x 2	

L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 10 bar $Q_{Smin/L}$ [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	
10^{-0}	5	5	5	5	5	5	5			5	
10^{-1}	5	5	5	5	5	5	5			5	
10^{-2}	7	5	5	5	5	5	5			5	
10^{-3}	9	6	5	5	5	5	5			5	
10^{-4}	15		5	5	5	6	7			8	
10^{-5}	67					55	53			60	
10^{-6}											
10^{-7}											
10^{-8}											



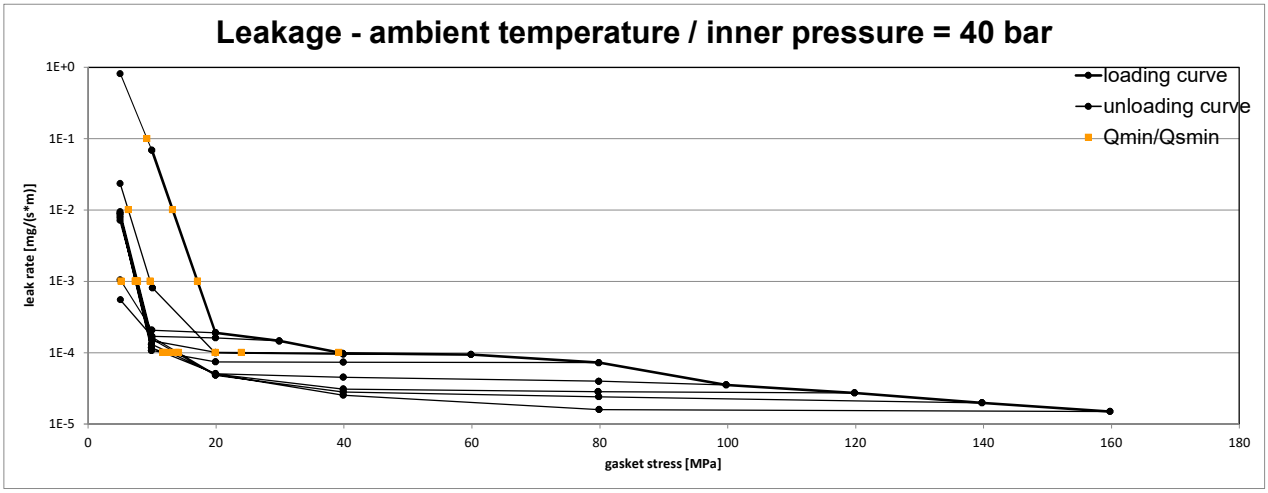
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 20 bar $Q_{Smin/L}$ [MPa]									
		Q_A= 10 MPa	Q_A= 20 MPa	Q_A= 40 MPa	Q_A= 60 MPa	Q_A= 80 MPa	Q_A= 100 MPa	Q_A= 120 MPa	Q_A= 140 MPa	Q_A= 160 MPa	
10^{-0}	5	5	5	5	5	5	5			5	
10^{-1}	7	5	5	5	5	5	5			5	
10^{-2}	9	8	5	5	5	5	5			5	
10^{-3}	14		5	5	5	7	7			7	
10^{-4}	20		18	8	8	9	9			10	
10^{-5}	140									112	
10^{-6}											
10^{-7}											
10^{-8}											



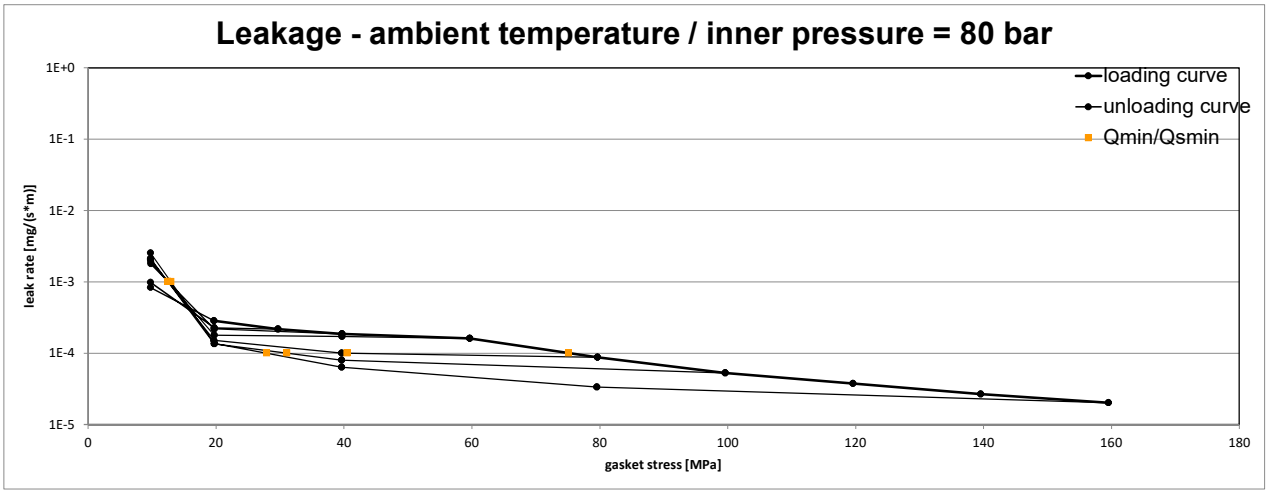
Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: **4**	Creation date of this sheet:	**2021-03-24**

Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany	According to **EN 13555 2021-04**
Gasket Type	*GYLON© Style 3504*	
Sealing element dimensions [mm]	*92 x 49 x 2*	

L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 40 bar $Q_{Smin/L}$ [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
10^{-0}	10	5	5	5	5	5	5	5	5	5	5
10^{-1}	10	9	5	5	5	5	5	5	5	5	5
10^{-2}	13		5	5	5	6	5	5	5	5	5
10^{-3}	17		5	5	8	10	7	7	8	8	8
10^{-4}	39				24	20	12	12	13	14	14
10^{-5}											
10^{-6}											
10^{-7}											
10^{-8}											



L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 80 bar $Q_{Smin/L}$ [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	
10^{-0}	20	10	10	10	10	10	10			10	
10^{-1}	20	10	10	10	10	10	10			10	
10^{-2}	20	10	10	10	10	10	10			10	
10^{-3}	20	10	10	13	12	12	12			13	
10^{-4}	75					41	31			28	
10^{-5}											
10^{-6}											
10^{-7}											
10^{-8}											

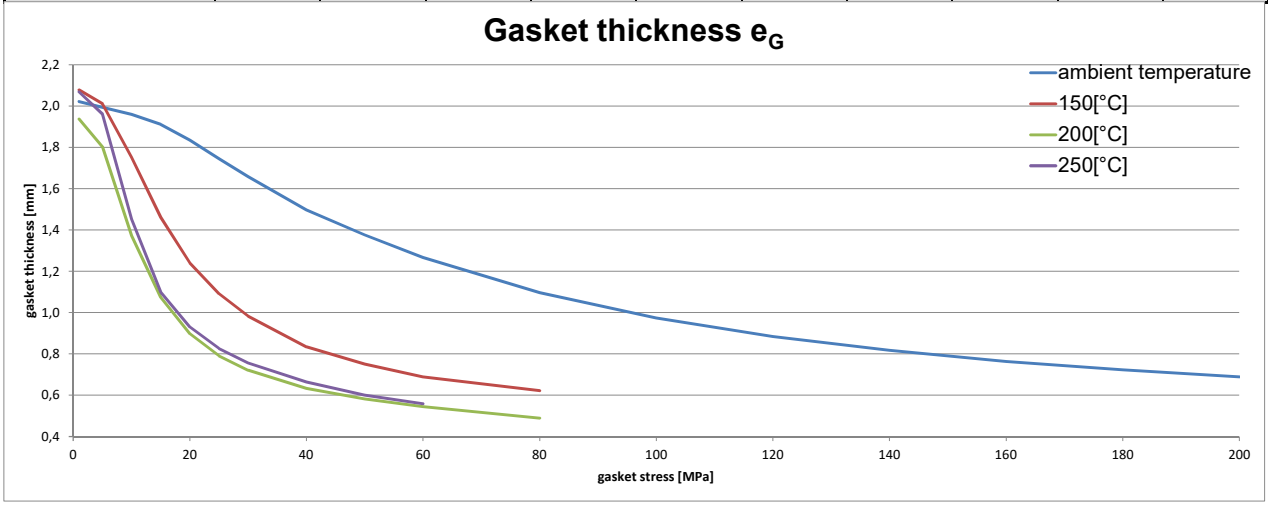


Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: **4**	Creation date of this sheet:	**2021-03-24**

Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany	According to **EN 13555 2021-04**
Gasket Type	GYLON© Style 3504	
Sealing element dimensions [mm]	92 x 49 x 2	

Relaxation ratio P_{QR} for stiffness **C** = 500 kN/mm										
Gasket stress	ambient temperature		temperature 1 [150 °C]		temperature 2 [200 °C]		temperature 3 [250 °C]			
	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]
Stress level 1 [10 MPa]	0.80	0.017	0.46	0.046	0.41	0.050	0.31	0.058		
Stress level 2 [20 MPa]	0.78	0.038	0.41	0.099	0.32	0.115	0.27	0.123		
Stress level 3 [25 MPa]					0.33	0.141	0.25	0.157		
Stress level 4 [30 MPa]	0.80	0.050	0.39	0.154	0.32	0.171	0.23	0.194		
Stress level 5 [50 MPa]	0.81	0.082								
P_{QR} and Δe_{Gc} at maximal applicable gasket stress Q_{smax}										
P_{QR} at Q_{Smax}	0.95	0.092	0.55	0.302	0.52	0.326	0.36	0.325		
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]	ambient temperature		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		2.034		2.093		1.962		2.085		
1		2.022		2.078		1.937		2.070		
5	654	1.993	388	2.013	276	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	1.241	620	0.898	369	0.931		
25	921	1.746	629	1.091	757	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	1310	0.633	746	0.665		
50	1799	1.376	861	0.750	1789	0.581	651	0.601		
60	2185	1.268	997	0.688	2067	0.545	932	0.559		
80	2586	1.096	1497	0.622	3604	0.489				
100	3319	0.973								
120	3451	0.884								
140	3589	0.817								
160	3332	0.764								
180	3245	0.723								
200	3254	0.689								



Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: **4**	Creation date of this sheet:	**2021-03-24**
Fields marked in dark yellow: After testing the gasket was intruding into the bore.			