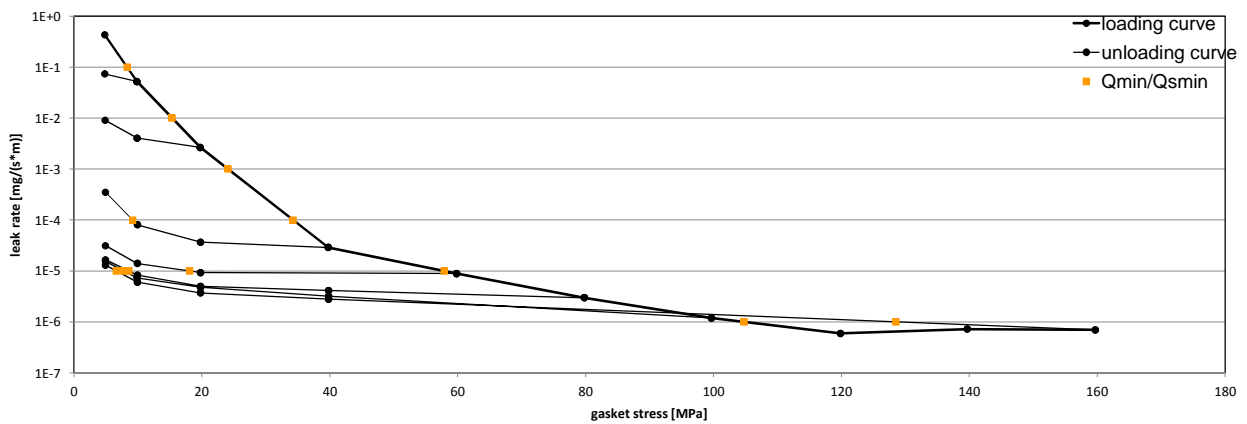


Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany
Gasket Type	GYLON® Style 3501E
Sealing element dimensions [mm]	92 x 49 x 2

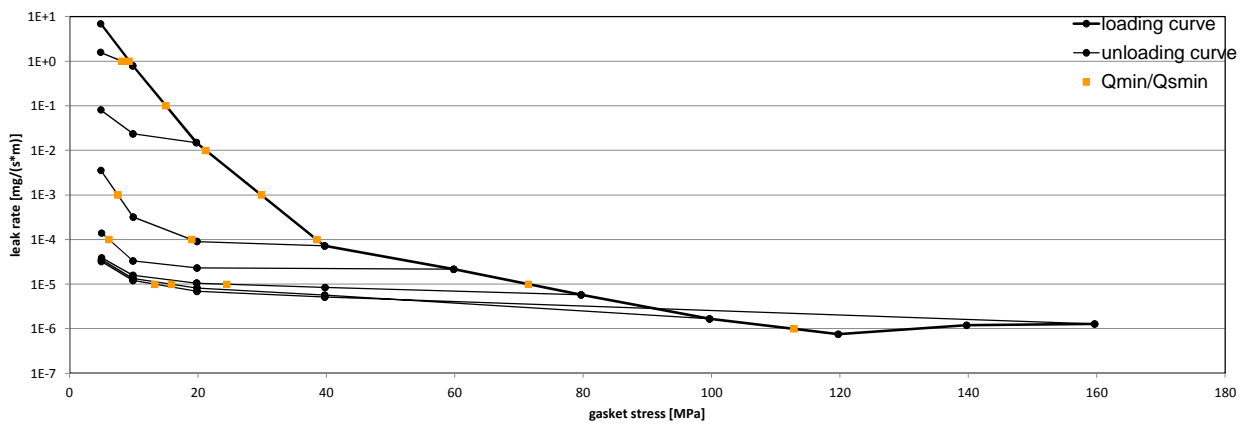
L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 10 bar									
		Q _{Smin/L} [MPa]									
		Q _A = 10 MPa	Q _A = 20 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa	Q _A = 120 MPa	Q _A = 140 MPa	Q _A = 160 MPa	
10 ⁰	5	5	5	5	5	5	5			5	
10 ⁻¹	8	5	5	5	5	5	5			5	
10 ⁻²	15		5	5	5	5	5			5	
10 ⁻³	24			5	5	5	5			5	
10 ⁻⁴	34			9	5	5	5			5	
10 ⁻⁵	58				18	9	8			7	
10 ⁻⁶	105									129	
10 ⁻⁷											
10 ⁻⁸											

Leakage - ambient temperature / inner pressure = 10 bar



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	9	8	5	5	5	5	5			5	
10 ⁻¹	15		5	5	5	5	5			5	
10 ⁻²	21			5	5	5	5			5	
10 ⁻³	30			8	5	5	5			5	
10 ⁻⁴	39			19	6	5	5			5	
10 ⁻⁵	71					24	16			13	
10 ⁻⁶	113										
10 ⁻⁷											
10 ⁻⁸											

Leakage - ambient temperature / inner pressure = 20 bar



Note: the content of darkened cells was not determined respectively is unnecessary

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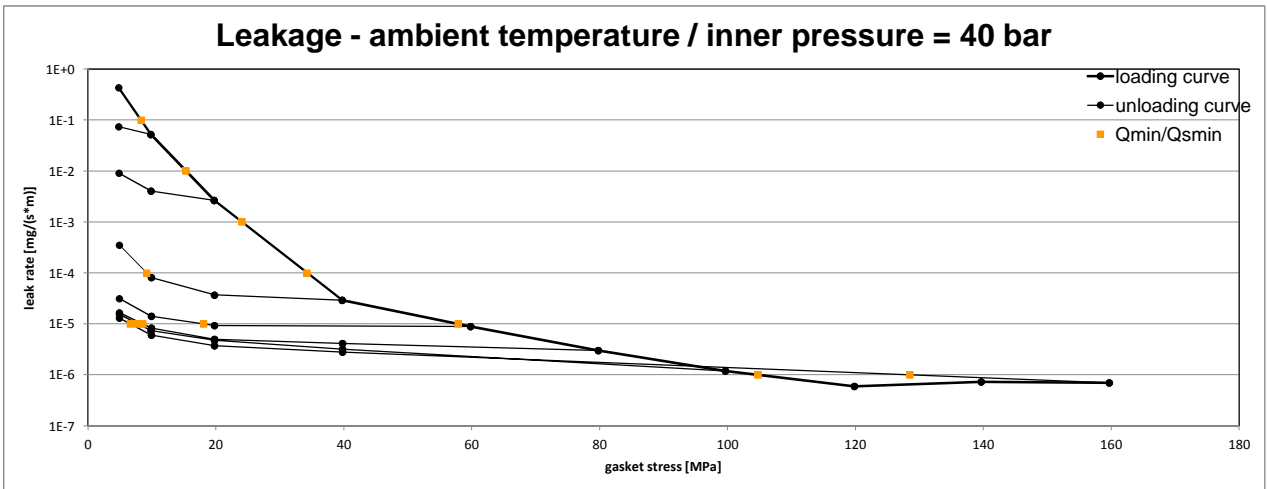
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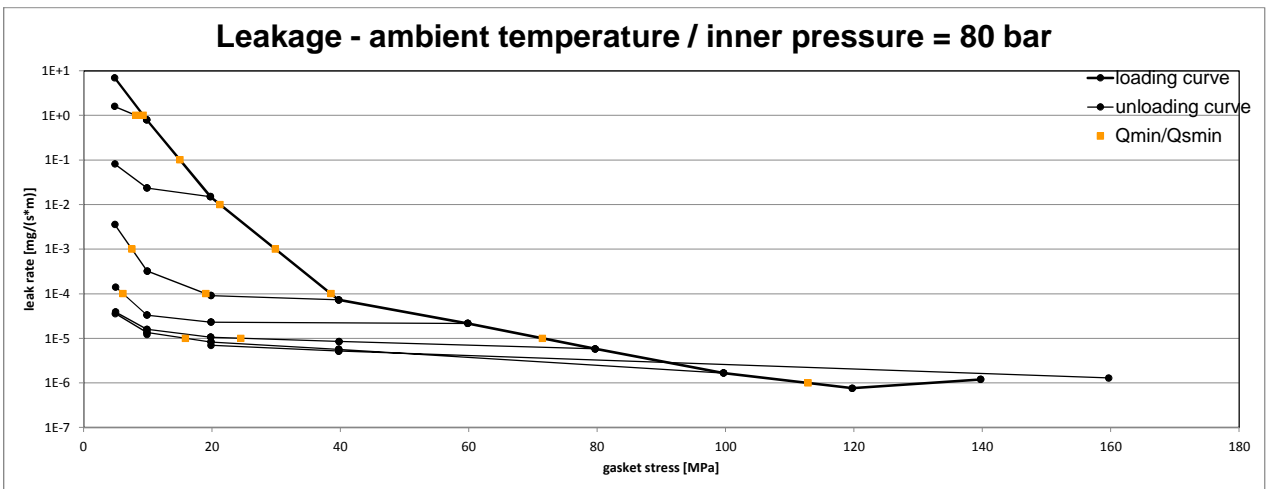
Center of Sealing Technologies, Bürgerkamp 3, 48565 Steinfurt, Germany

Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany
Gasket Type	GYLON® Style 3501E
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 = 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	11	5	5	5	5	5	5	5	5	5	
10 ⁻¹	16	9	5	5	5	5	5	5	5	5	
10 ⁻²	23		10	6	5	5	5	5	5	5	
10 ⁻³	31			15	6	5	5	5	5	5	
10 ⁻⁴	43				9	5	5	5	5	5	
10 ⁻⁵	75					50	22	18	19	18	
10 ⁻⁶	119							118	114	110	
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	12	10	10	10	10	10			10	
10 ⁻¹	23		12	10	10	10	10			10	
10 ⁻²	30			13	10	10	10			10	
10 ⁻³	36			23	10	10	10			10	
10 ⁻⁴	59				19	13	10			10	
10 ⁻⁵	96						91			88	
10 ⁻⁶											
10 ⁻⁷											
10 ⁻⁸											



Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 2 Creation date of this sheet: 16.09.2013



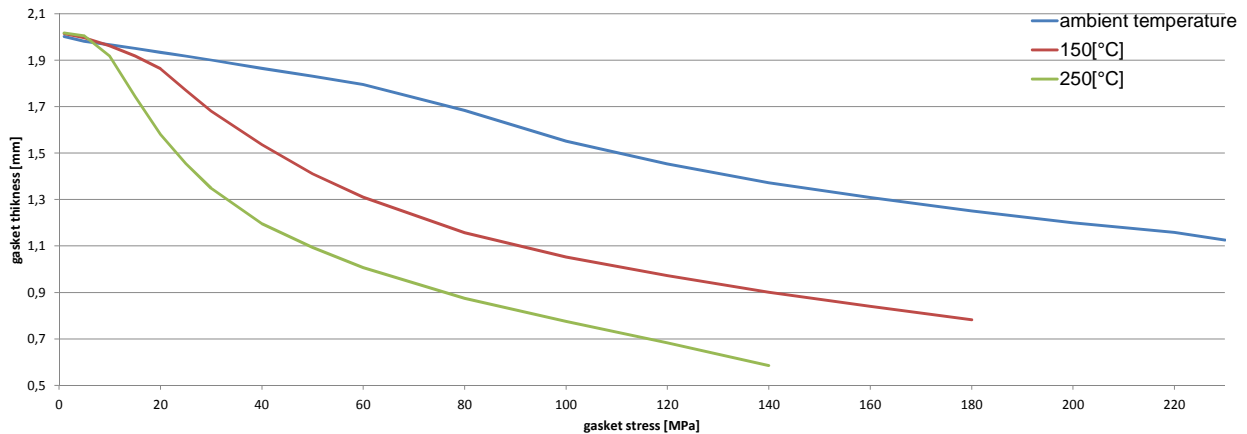
Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany
Gasket Type	GYLON® Style 3501E
Sealing element dimensions [mm]	92 x 49 x 2

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm				
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [250 °C]	
Stress level 1 [10 MPa]	0,92	0,84	0,65	
Stress level 2 [30 MPa]	0,93	0,76	0,53	
PQR at Q_{Smax}	0,93 at 230 MPa	0,72 at 180 MPa	0,59 at 140 MPa	

Maximal applicable gasket stress Q_{Smax}			
Q_{Smax} [MPa] ambient temperature	Q_{Smax} [MPa] – temperature 1 [150 °C]	Q_{Smax} [MPa] – temperature 2 [250 °C]	
230	180	140	

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 [250 °C]	
	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]
0		2,023		2,039		2,038
1		2,002		2,014		2,017
5	1515	1,981	857	1,996	580	2,004
10	1348	1,966	721	1,961	630	1,918
15	1734	1,951	833	1,917	660	1,742
20	1487	1,933	1021	1,863	911	1,581
25	1905	1,918	1304	1,770	1219	1,455
30	1971	1,901	1484	1,681	1012	1,349
40	2476	1,864	1892	1,536	1327	1,196
50	2761	1,831	1889	1,411	1875	1,093
60	3795	1,795	2452	1,310	1645	1,008
80	6922	1,684	2588	1,158	2065	0,875
100	7360	1,551	2486	1,053	2679	0,776
120	8144	1,453	3616	0,972	3096	0,683
140	6099	1,372	3265	0,901	4554	0,585
160	7401	1,309	3264	0,840		
180	7533	1,251	5417	0,782		
200	7788	1,200				
220	6562	1,158				
230	6357	1,126				

Gasket thickness e_G



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