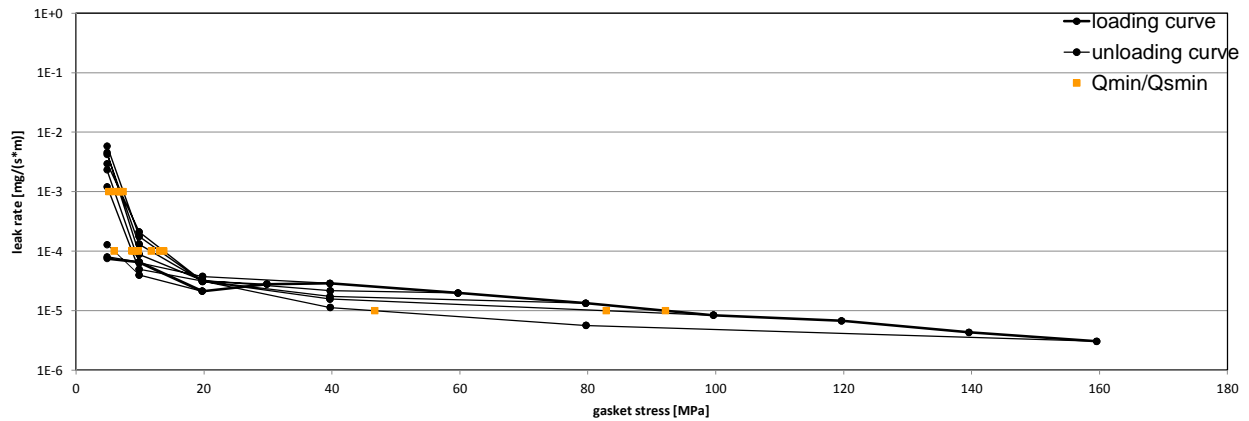


Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany
Gasket Type	STRESS SAVER GYLON 3504
Sealing element dimensions [mm]	92 x 49 x 4

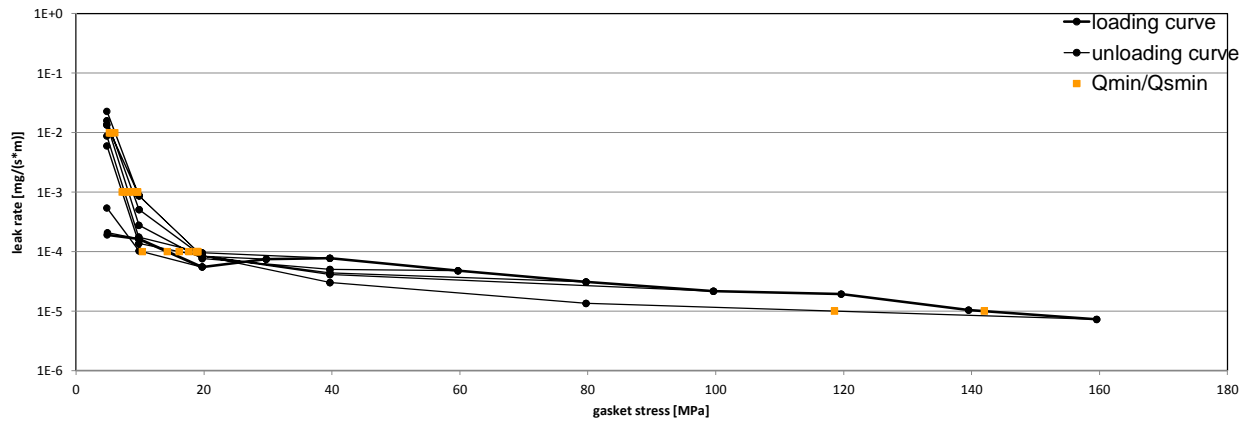
L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 10 bar									
		Q _{Smin/L} [MPa]									
		Q _A = 10 MPa	Q _A = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa	Q _A = 120 MPa	Q _A = 140 MPa	Q _A = 160 MPa
10 ⁰	5	5	5	5	5	5	5	5			5
10 ⁻¹	5	5	5	5	5	5	5	5			5
10 ⁻²	5	5	5	5	5	5	5	5			5
10 ⁻³	5	5	5	5	6	7	7	7			7
10 ⁻⁴	5	5	6	9	9	10	12	13			14
10 ⁻⁵	92							83			47
10 ⁻⁶											
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 = 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	5	5	5	5	5	5	5	5			5
10 ⁻¹	5	5	5	5	5	5	5	5			5
10 ⁻²	5	5	5	5	5	5	6	6			5
10 ⁻³	5	5	5	7	8	8	9	10			10
10 ⁻⁴	14		10	16	19	18	19	19			19
10 ⁻⁵	142										119
10 ⁻⁶											
10 ⁻⁷											
10 ⁻⁸											

Leakage - ambient temperature / inner pressure = 20 bar



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

Rev - No: 1

Creation date of this sheet:

07.08.2013

page 1 of 3

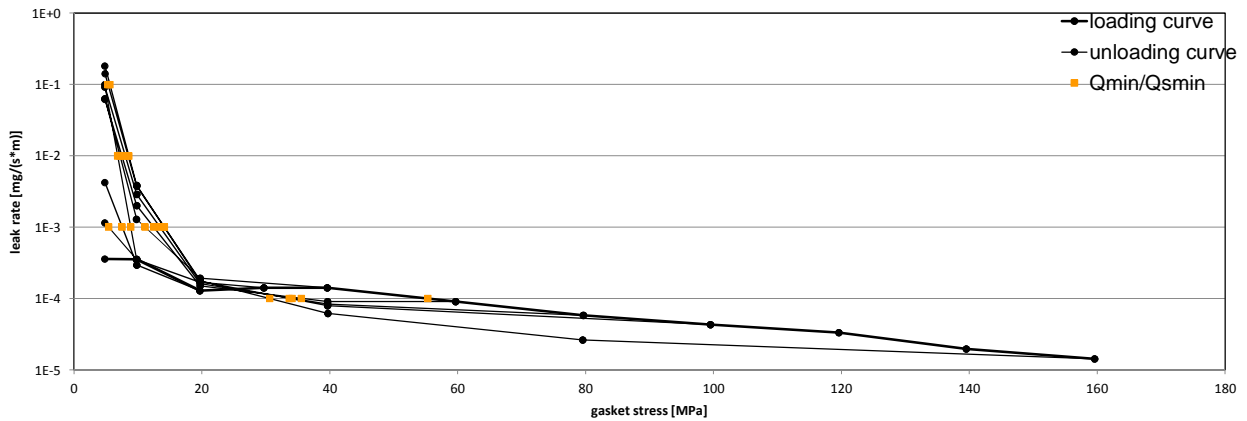


Center of Sealing Technologies, Bürgerkamp 3, 48565 Steinfurt, Germany

Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany
Gasket Type	STRESS SAVER GYLON 3504
Sealing element dimensions [mm]	92 x 49 x 4

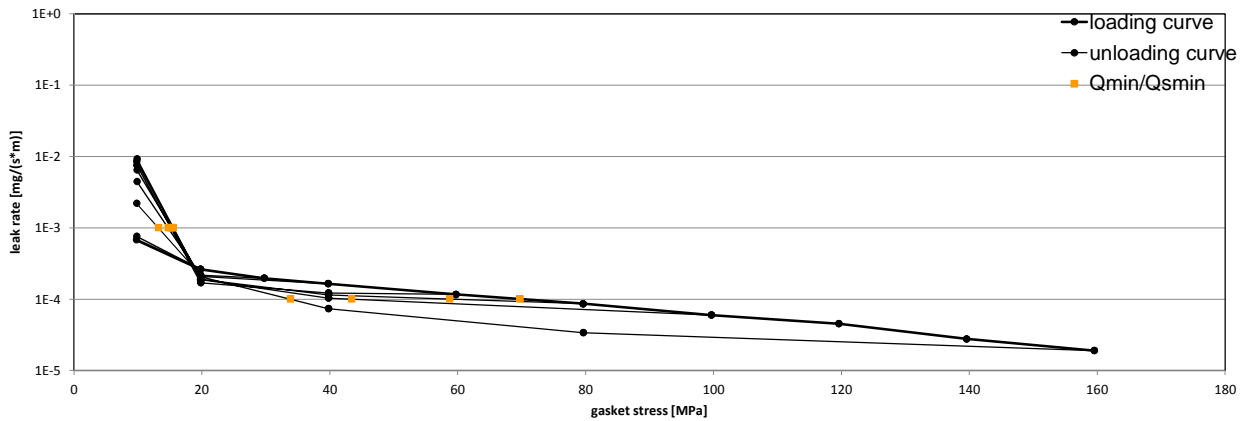
L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 40 bar									
		Q _{Smin/L} [MPa]									
		Q _A = 10 MPa	Q _A = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa	Q _A = 120 MPa	Q _A = 140 MPa	Q _A = 160 MPa
10 ⁰	5	5	5	5	5	5	5	5			5
10 ⁻¹	5	5	5	5	5	5	5	6			5
10 ⁻²	5	5	5	7	7	7	8	9			8
10 ⁻³	5	5	8	9	11	12	13	14			14
10 ⁻⁴	55					36	34	34			31
10 ⁻⁵											
10 ⁻⁶											
10 ⁻⁷											
10 ⁻⁸											

Leakage - ambient temperature / inner pressure = 40 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 = 55 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	10	10	10	10	10	10	10			10
10 ⁻¹	10	10	10	10	10	10	10			10
10 ⁻²	10	10	10	10	10	10	10			10
10 ⁻³	10	10	13	15	15	15	16			15
10 ⁻⁴	70					59	43			34
10 ⁻⁵										
10 ⁻⁶										
10 ⁻⁷										
10 ⁻⁸										

Leakage - ambient temperature / inner pressure = 55 bar



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Rev - No: 2

Creation date of this sheet:

07.08.2013

page 2 of 3



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

Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany
Gasket Type	STRESS SAVER GYLON 3504
Sealing element dimensions [mm]	92 x 49 x 4

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]	0,83	0,63	0,40	
Stress level 2 [20 MPa]	0,86	0,43	0,24	
PQR at Q_{Smax}	0,95 at 200 MPa	0,51 at 80 MPa	0,25 at 50 MPa	

Maximal applicable gasket stress Q_{Smax}				
Q_{Smax} [MPa]	Q_{Smax} [MPa] – temperature 1 [150 °C]	Q_{Smax} [MPa] – temperature 2 [250 °C]		
200	80	50		

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		4,019		3,964		3,927		
1		3,852		3,875		3,758		
5	126	2,982	138	2,484	172	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	524	1,327	516	0,984		
30	1058	2,188	565	1,194	628	0,909		
40	1269	1,898	640	1,024	808	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	2939	1,148						
120	2862	1,049						
140	2991	0,975						
160	2635	0,919						
180	2853	0,875						
200	2791	0,839						

Gasket thickness e_G

