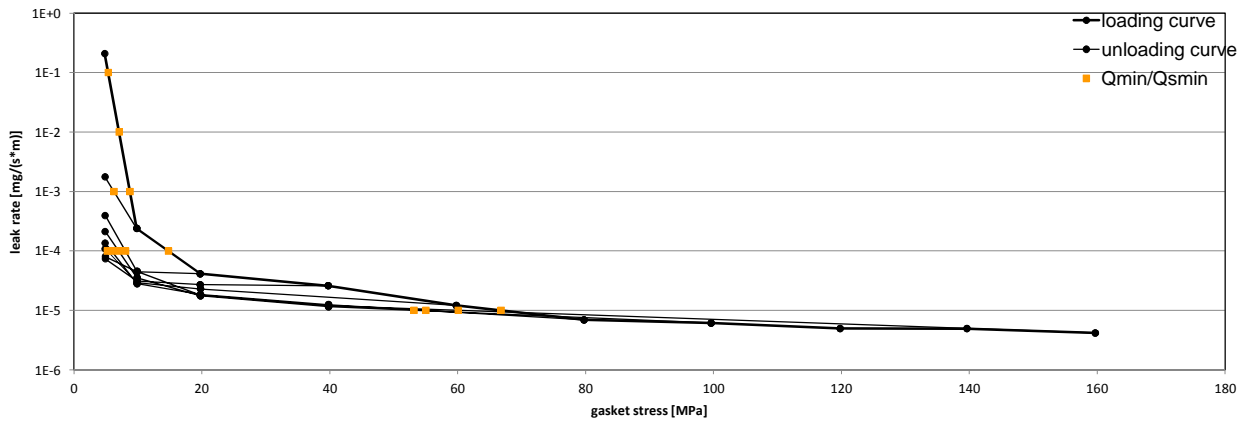


Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany
Gasket Type	Gylori® Style 3504
Sealing element dimensions [mm]	92 x 49 x 2

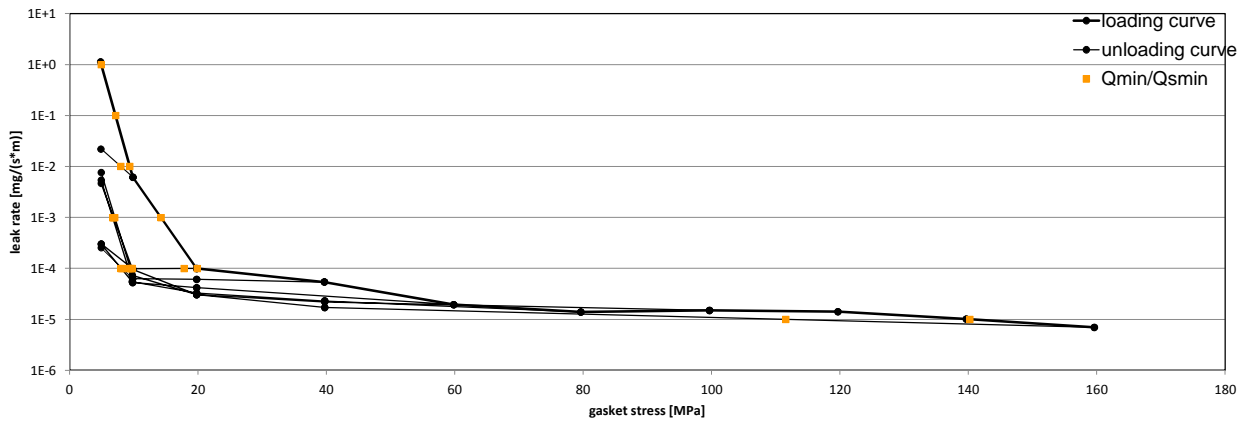
L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 10 bar									
		Q <sub>Smin/L</sub> [MPa]									
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa	Q <sub>A</sub> = 100 MPa	Q <sub>A</sub> = 120 MPa	Q <sub>A</sub> = 140 MPa	Q <sub>A</sub> = 160 MPa	
10 <sup>0</sup>	5	5	5	5	5	5	5			5	
10 <sup>-1</sup>	5	5	5	5	5	5	5			5	
10 <sup>-2</sup>	7	5	5	5	5	5	5			5	
10 <sup>-3</sup>	9	6	5	5	5	5	5			5	
10 <sup>-4</sup>	15		5	5	5	6	7			8	
10 <sup>-5</sup>	67					55	53			60	
10 <sup>-6</sup>											
10 <sup>-7</sup>											
10 <sup>-8</sup>											

### Leakage - ambient temperature / inner pressure = 10 bar



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

### Leakage - ambient temperature / inner pressure = 20 bar



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

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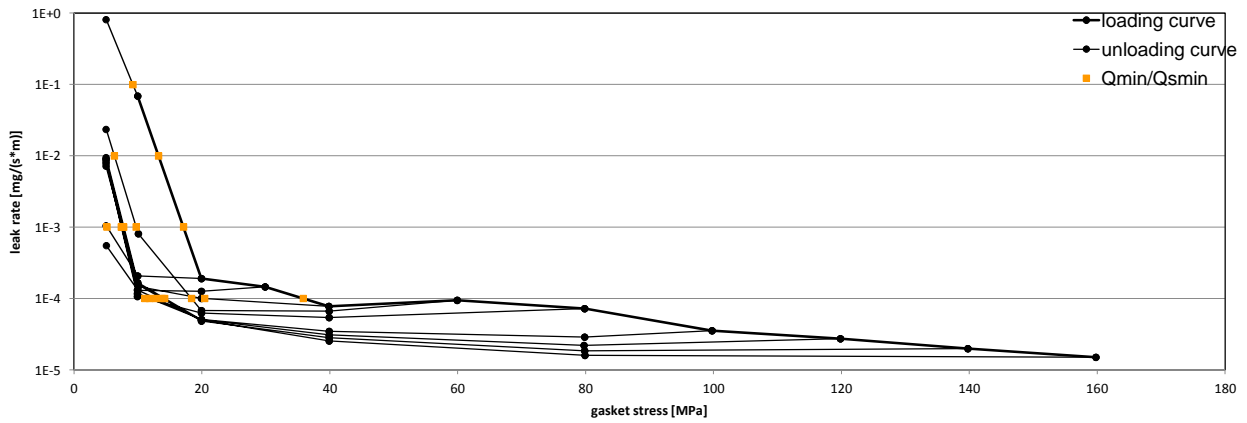


Center of Sealing Technologies, Bürgerkamp 3, 48565 Steinfurt, Germany

Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany
Gasket Type	Gylori® Style 3504
Sealing element dimensions [mm]	92 x 49 x 2

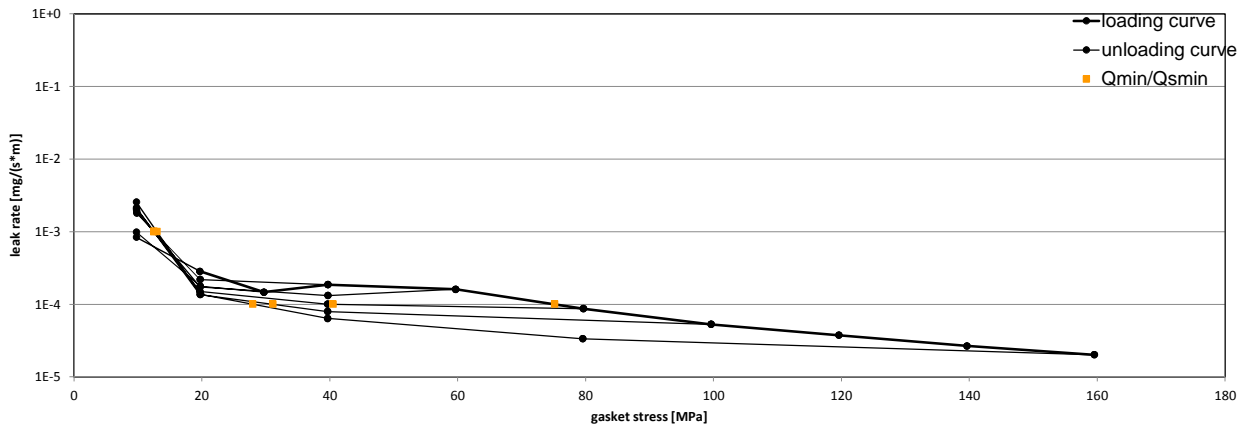
L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 40 bar									
		Q <sub>Smin/L</sub> [MPa]									
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 30 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa	Q <sub>A</sub> = 100 MPa	Q <sub>A</sub> = 120 MPa	Q <sub>A</sub> = 140 MPa	Q <sub>A</sub> = 160 MPa
10 <sup>0</sup>	10	5	5	5	5	5	5	5	5	5	5
10 <sup>-1</sup>	10	9	5	5	5	5	5	5	5	5	5
10 <sup>-2</sup>	13		5	5	5	6	5	5	5	5	5
10 <sup>-3</sup>	17		5	5	8	10	7	7	8	8	8
10 <sup>-4</sup>	36				20	18	11	12	13	14	14
10 <sup>-5</sup>											
10 <sup>-6</sup>											
10 <sup>-7</sup>											
10 <sup>-8</sup>											

### Leakage - ambient temperature / inner pressure = 40 bar



L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 80 bar								
		Q <sub>Smin/L</sub> [MPa]								
		Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 30 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa	Q <sub>A</sub> = 100 MPa	Q <sub>A</sub> = 120 MPa	Q <sub>A</sub> = 140 MPa	Q <sub>A</sub> = 160 MPa
10 <sup>0</sup>	20	10	10	10	10	10	10			10
10 <sup>-1</sup>	20	10	10	10	10	10	10			10
10 <sup>-2</sup>	20	10	10	10	10	10	10			10
10 <sup>-3</sup>	20	10	10	13	12	12	12			13
10 <sup>-4</sup>	75					41	31			28
10 <sup>-5</sup>										
10 <sup>-6</sup>										
10 <sup>-7</sup>										
10 <sup>-8</sup>										

### Leakage - ambient temperature / inner pressure = 80 bar



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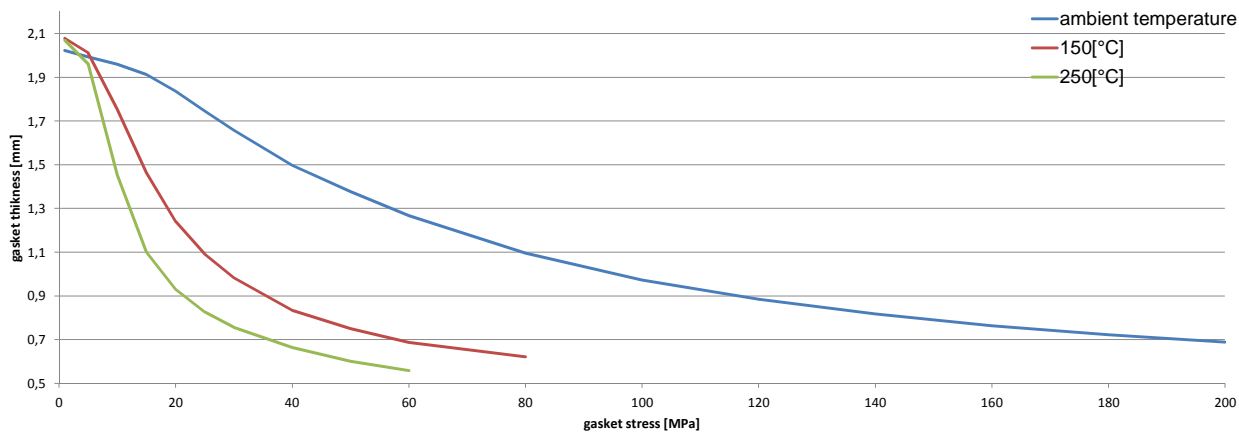
<b>Company Address</b>	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany
<b>Gasket Type</b>	Gylori® Style 3504
<b>Sealing element dimensions [mm]</b>	92 x 49 x 2

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]	0,80	0,46	0,31	
Stress level 2 [20 MPa]	0,78	0,41	0,27	
PQR at $Q_{Smax}$	0,95 at 200 MPa	0,55 at 80 MPa	0,36 at 60 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]		
200	80	60		

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		2,034		2,093		2,085
1		2,022		2,078		2,070
5	654	1,993	388	2,013	226	1,961
10	809	1,960	321	1,754	270	1,454
15	938	1,912	484	1,463	347	1,100
20	930	1,836	474	1,241	369	0,931
25	921	1,746	629	1,091	463	0,827
30	1248	1,658	951	0,982	655	0,756
40	1700	1,497	887	0,834	746	0,665
50	1799	1,376	861	0,750	651	0,601
60	2185	1,268	997	0,688	932	0,559
80	2586	1,096	1497	0,622		
100	3319	0,973				
120	3451	0,884				
140	3589	0,817				
160	3332	0,764				
180	3245	0,723				
200	3254	0,689				

### Gasket thickness $e_G$



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