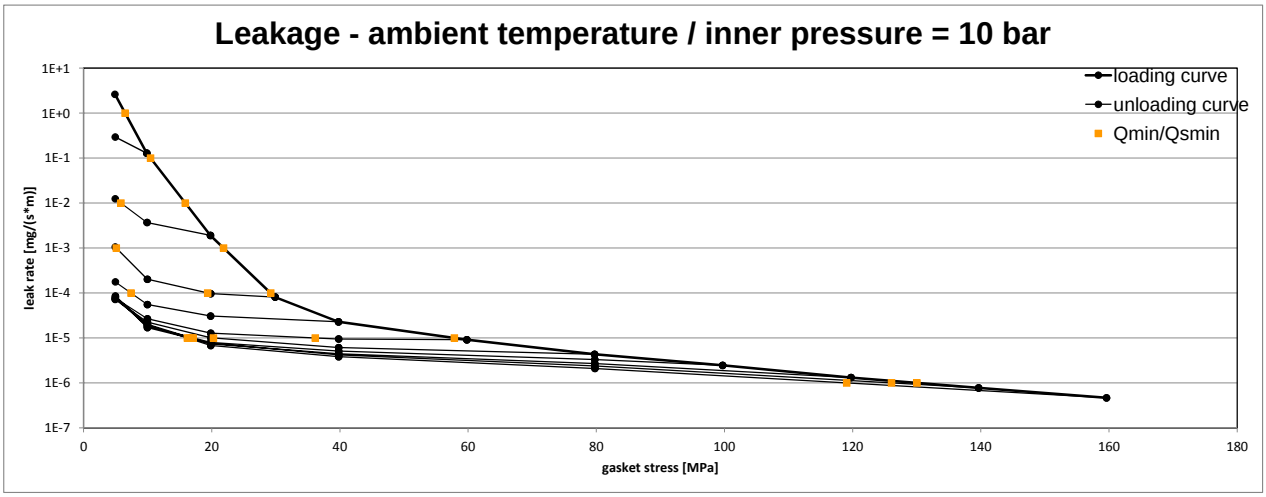
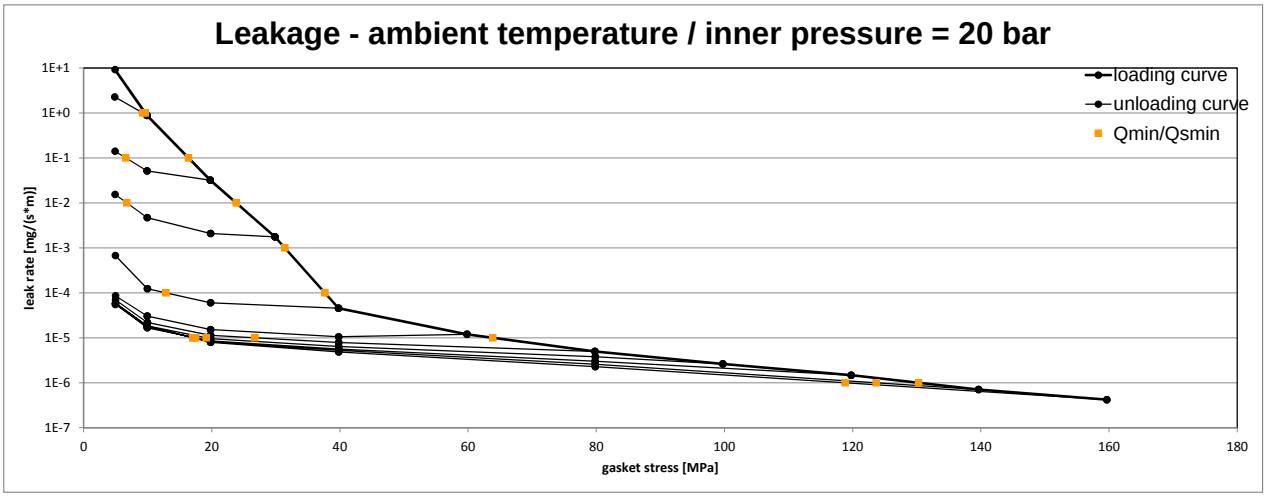
Company Address	*Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany*
Gasket Type	*GYLON® Style 3501E*
Sealing element dimensions [mm]	*92 x 49 x 3,2*

L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $\mathbf{Q_{min/L}}$ (at assembly), $\mathbf{Q_{Smin/L}}$ (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}	6	5	5	5	5	5	5	5	5	5	5
10^{-1}	10		5	5	5	5	5	5	5	5	5
10^{-2}	16		6	5	5	5	5	5	5	5	5
10^{-3}	22			5	5	5	5	5	5	5	5
10^{-4}	29			19	7	5	5	5	5	5	5
10^{-5}	58					36	20	17	17	16	16
10^{-6}	130									126	119
10^{-7}											
10^{-8}											



L [mg/(s*m)]	$Q_{min/L}$ [MPa]	Minimum stress to seal $\mathbf{Q_{min/L}}$ (at assembly), $\mathbf{Q_{Smin/L}}$ (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}	10	9	5	5	5	5	5	5	5	5	5
10^{-1}	16		7	5	5	5	5	5	5	5	5
10^{-2}	24			7	5	5	5	5	5	5	5
10^{-3}	31				5	5	5	5	5	5	5
10^{-4}	38				13	5	5	5	5	5	5
10^{-5}	64						27	19	17	17	17
10^{-6}	130									124	119
10^{-7}											
10^{-8}											

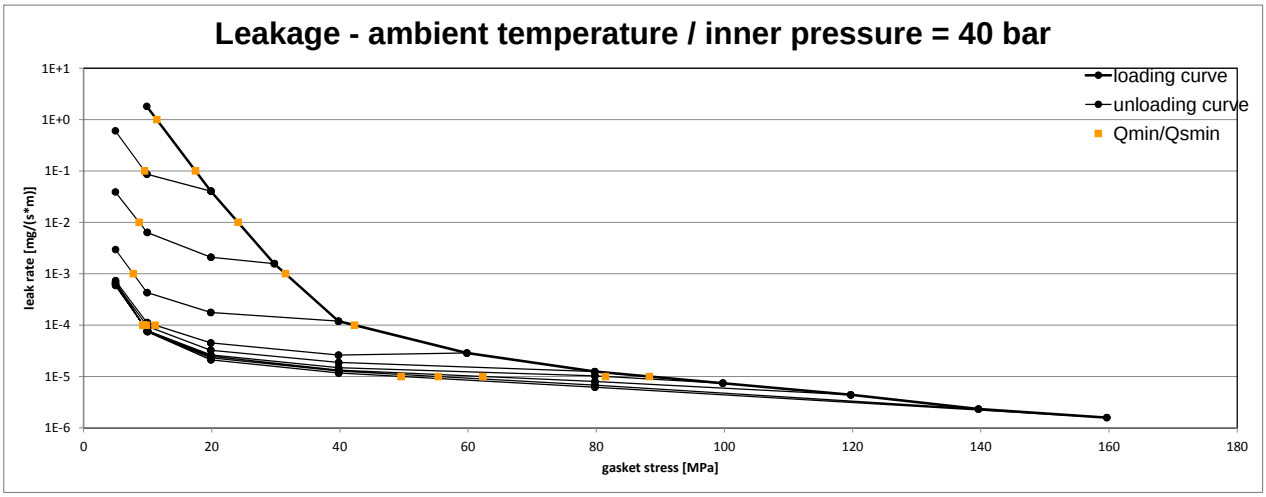


Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: 1	Creation date of this sheet: *27.04.2012*

Company Address	*Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany*
Gasket Type	*GYLON® Style 3501E*
Sealing element dimensions [mm]	*92 x 49 x 3,2*

Minimum stress to seal $\mathbf{Q_{min/L}}$ (at assembly), $\mathbf{Q_{Smin/L}}$ (after off-loading) for p = 40 bar

L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [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}	17	10	5	5	5	5	5	5	5	5	
10^{-2}	24		9	5	5	5	5	5	5	5	
10^{-3}	32			8	5	5	5	5	5	5	
10^{-4}	42				11	10	9	9	9	9	
10^{-5}	88						81	62	55	50	
10^{-6}											
10^{-7}											
10^{-8}											



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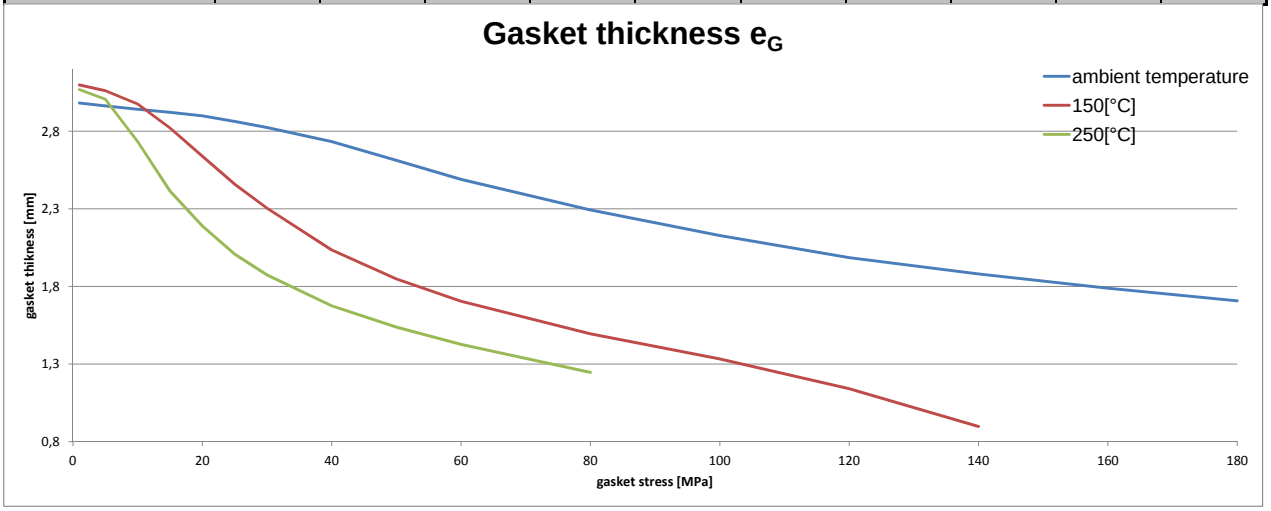
Company Address	*Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany*
Gasket Type	*GYLON® Style 3501E*
Sealing element dimensions [mm]	*92 x 49 x 3,2*

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]	0,86	0,67	0,47		
Stress level 2 [30 MPa]	0,90	0,48	0,25		
PQR at Q_{Smax}	0,88 *at 180 MPa*	0,51 *at 140 MPa*	0,25 *at 80 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]		
180	140	80		

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		3,005		3,122		3,078				
1		2,982		3,098		3,068				
5	2404	2,963	815	3,061	460	3,007				
10	1367	2,941	801	2,975	498	2,734				
15	1874	2,922	827	2,821	614	2,414				
20	1984	2,899	1065	2,639	631	2,189				
25	1879	2,864	1197	2,459	717	2,009				
30	2109	2,824	1646	2,304	948	1,874				
40	2797	2,733	1642	2,035	1183	1,675				
50	2886	2,613	1918	1,849	1417	1,538				
60	3278	2,490	2383	1,704	1896	1,427				
80	4527	2,293	2467	1,495	2005	1,247				
100	5852	2,128	2655	1,333						
120	4950	1,985	5437	1,141						
140	5758	1,881	3620	0,898						
160	6988	1,789								
180	5608	1,708								



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