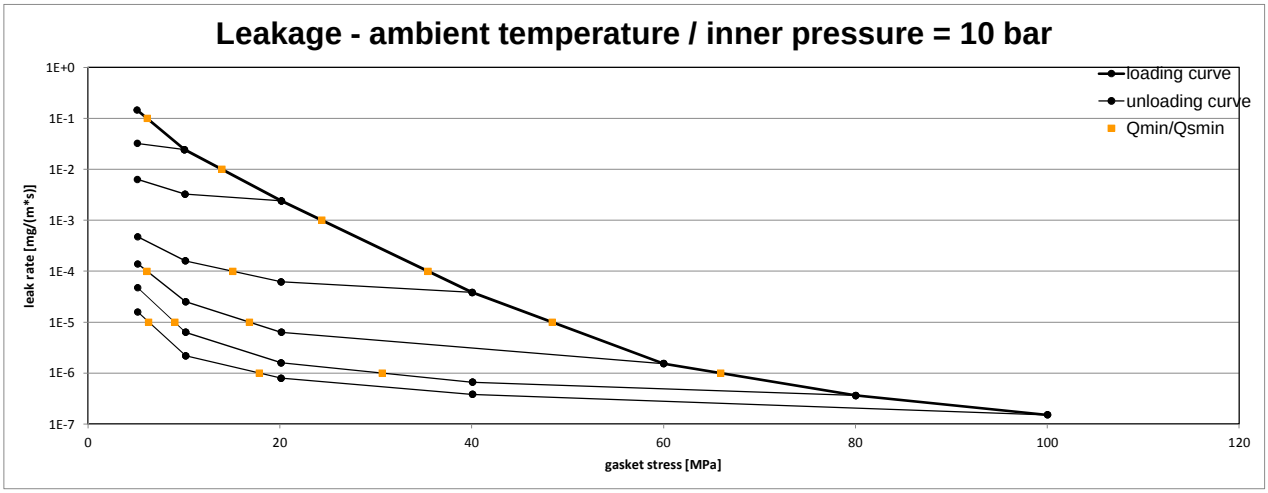
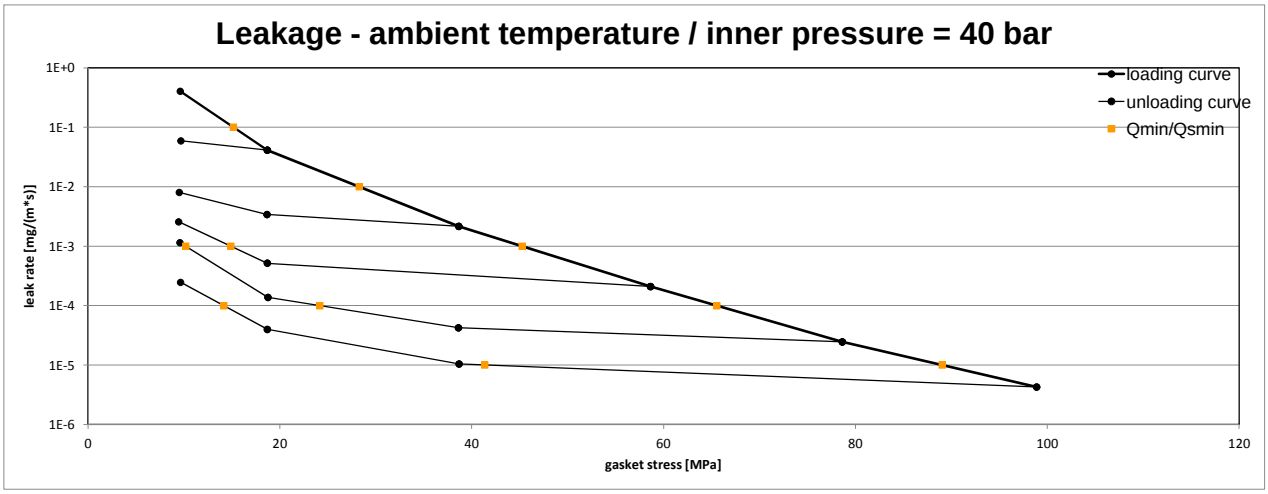
Company Address	*Reinz-Dichtungs-GmbH, Reinzstraße 3-7, 89233 Neu-Ulm, Germany*
Gasket Type	*AFM 34*
Sealing element dimensions [mm]	*92 x 49 x 2*

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= 40 MPa	Q_A= 60 MPa	Q_A= 80 MPa	Q_A= 100 MPa				
10^{-0}	5	5	5	5	5	5	5				
10^{-1}	6	5	5	5	5	5	5				
10^{-2}	14		5	5	5	5	5				
10^{-3}	24			5	5	5	5				
10^{-4}	35			15	6	5	5				
10^{-5}	48				17	9	6				
10^{-6}	66					31	18				
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 = 40 bar $Q_{Smin/L}$ [MPa]									
		Q_A= 20 MPa	Q_A= 40 MPa	Q_A= 60 MPa	Q_A= 80 MPa	Q_A= 100 MPa					
10^{-0}	10	10	10	10	10	10					
10^{-1}	15	10	10	10	10	10					
10^{-2}	28		10	10	10	10					
10^{-3}	45			15	10	10					
10^{-4}	66				24	14					
10^{-5}	89					41					
10^{-6}											
10^{-7}											
10^{-8}											



Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: 1	Creation date of this sheet:	*26.03.2012*

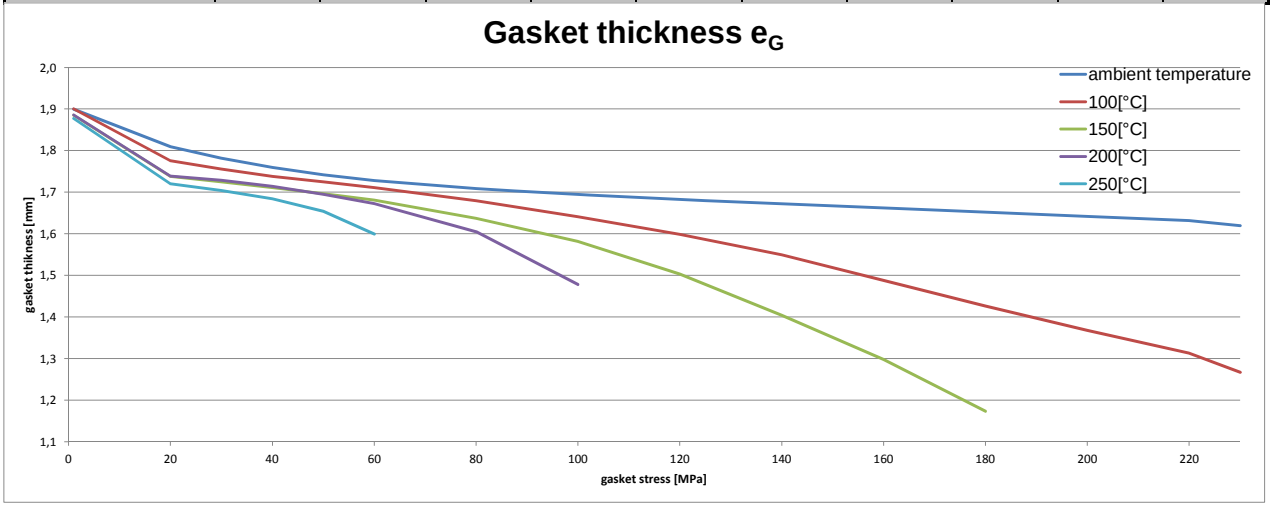
C S T Center of Sealing Technologies, Bürgerkamp 3, 48565 Steinfurt, Germany

Company Address	*Reinz-Dichtungs-GmbH, Reinzstraße 3-7, 89233 Neu-Ulm, Germany*
Gasket Type	*AFM 34*
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 [100 °C]	temperature 2 [150 °C]	temperature 3 [200 °C]	temperature 4 [250 °C]
Stress level 1 [30 MPa]	0,96	0,85	0,83	0,81	0,69
Stress level 2 [50 MPa]	0,97	0,91	0,84	0,77	0,70
Stress level 3 [100 MPa]	0,98	0,85	0,77	0,74	
PQR at Q_{Smax}	0,99 *at 230 MPa*	0,88 *at 230 MPa*	0,77 *at 180 MPa*	0,74 *at 100 MPa*	0,69 *at 60 MPa*

Maximal applicable gasket stress Q_{Smax}				
Q_{Smax} [MPa] ambient temperature	Q_{Smax} [MPa] – temperature 1 [100 °C]	Q_{Smax} [MPa] – temperature 2 [150 °C]	Q_{Smax} [MPa] – temperature 3 [200 °C]	Q_{Smax} [MPa] – temperature 4 [250 °C]
230	230	180	100	60

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [100 °C]		temperature 2 [150 °C]		temperature 3 [200 °C]		temperature 4 [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										
1		1,900		1,901		1,885		1,886		1,878
20	1528	1,810	1803	1,775	2230	1,738	2183	1,739	2713	1,720
30	1839	1,782	2296	1,756	2734	1,725	2920	1,729	3204	1,704
40	2309	1,760	2757	1,738	3084	1,711	3390	1,714	3132	1,684
50	2851	1,742	3675	1,725	3334	1,696	3537	1,695	3785	1,654
60	3501	1,728	3935	1,711	4551	1,681	3943	1,673	3661	1,599
80	4836	1,709	4852	1,680	4681	1,637	4248	1,605		
100	5988	1,695	5449	1,641	4976	1,581	4672	1,478		
120	6928	1,683	5577	1,599	5429	1,504				
140	7654	1,672	6394	1,549	5732	1,404				
160	8252	1,662	6464	1,488	5981	1,298				
180	8616	1,652	7149	1,426	5936	1,173				
200	9091	1,642	7573	1,368						
220	9402	1,631	7280	1,313						
230	9083	1,619	6748	1,267						



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