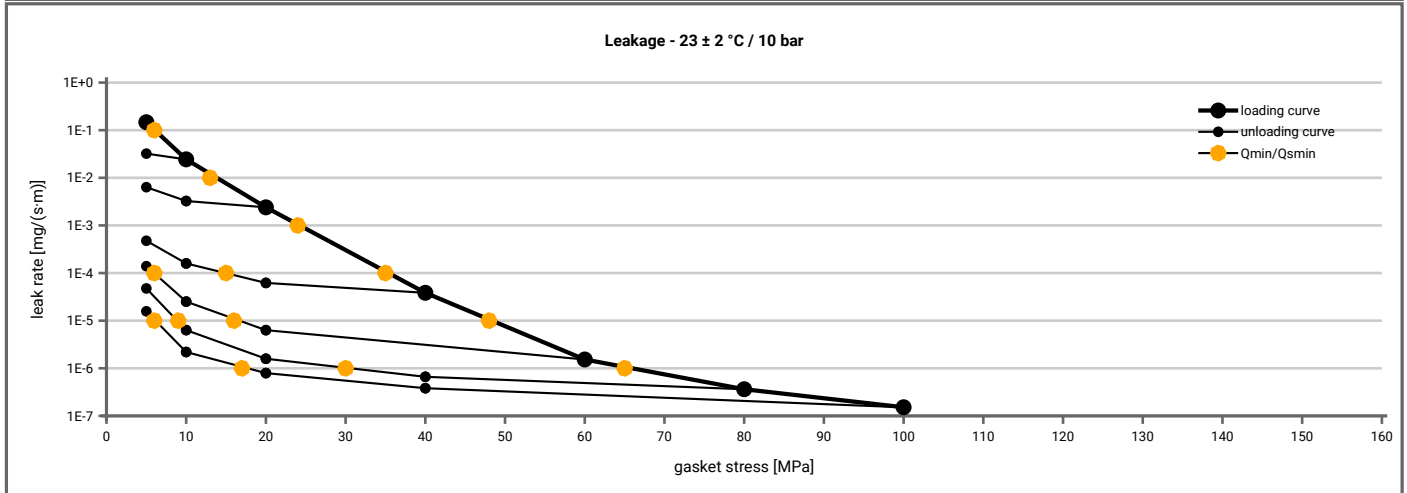
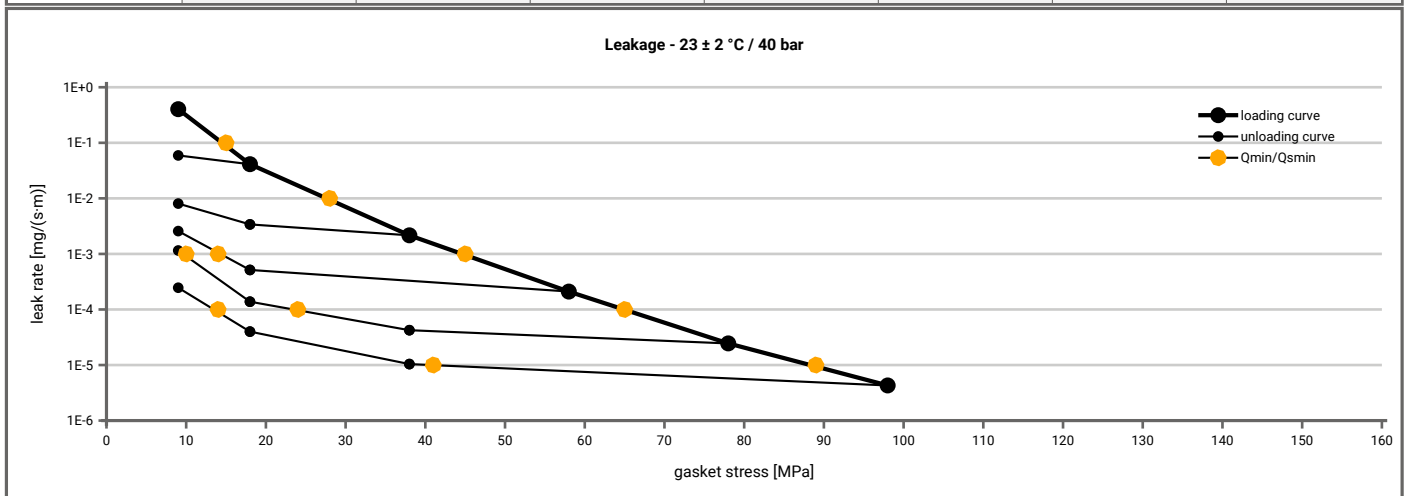


Manufacturer address	REINZ-Dichtungs-GmbH, Reinzstraße 3-7, 89233 Neu-Ulm, DE	According to DIN EN 13555 2014-7
Product name	AFM 34	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ bar ($T = 23 \pm 2$ °C)								
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]						
		$Q_A = 5$ [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]
1E-0	5		5	5	5	5	5	5
1E-1	6		5	5	5	5	5	5
1E-2	14			5	5	5	5	5
1E-3	24				5	5	5	5
1E-4	35				15	6	5	5
1E-5	48					17	9	6
1E-6	66						31	18
1E-7								
1E-8								



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °C)							
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]					
		$Q_A = 9.6$ [MPa]	$Q_A = 19$ [MPa]	$Q_A = 39$ [MPa]	$Q_A = 59$ [MPa]	$Q_A = 79$ [MPa]	$Q_A = 99$ [MPa]
1E-0	10		10	9	9	10	10
1E-1	15		10	9	9	10	10
1E-2	28			9	9	10	10
1E-3	45				15	10	10
1E-4	66					24	14
1E-5	89						41
1E-6							
1E-7							
1E-8							



Note: the content of darkened cells was not determined respectively is unnecessary Rev.-No.: 2 Creation date of this sheet: 2016-02-02

Manufacturer address	REINZ-Dichtungs-GmbH, Reinzstraße 3-7, 89233 Neu-Ulm, DE	According to DIN EN 13555 2014-7
Product name	AFM 34	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [150 °C]		Temperature 3 [200 °C]		Temperature 4 [250 °C]	
	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]
Stress level 1 [30 MPa]	0.96	11	0.85	39	0.83	43	0.81	49	0.69	79
Stress level 2 [50 MPa]	0.97	15	0.91	38	0.84	67	0.77	97	0.70	128
Stress level 3 [100 MPa]	0.98	17	0.85	126	0.77	197	0.74	218		
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.99	19	0.79	317	0.74	305	0.74	218	0.69	159
Q_{smax}	230 MPa		180 MPa		140 MPa		100 MPa		60 MPa	

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		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	0	1.899	0	1.901	0	1.885	0	1.885	0	1.877
1	0	1.899	0	1.901	0	1.885	0	1.885	0	1.877
20	1528	1.810	1803	1.775	2230	1.738	2183	1.739	2713	1.720
30	1840	1.782	2296	1.756	2735	1.725	2920	1.729	3204	1.704
40	2309	1.760	2758	1.738	3084	1.711	3390	1.714	3132	1.684
50	2851	1.742	3675	1.725	3335	1.696	3537	1.695	3785	1.654
60	3501	1.728	3936	1.711	4551	1.681	3943	1.673	3661	1.599
80	4836	1.709	4853	1.680	4682	1.637	4248	1.605		
100	5988	1.695	5449	1.641	4976	1.581	4673	1.478		
120	6928	1.683	5578	1.599	5429	1.504				
140	7654	1.672	6395	1.549	5732	1.404				
160	8252	1.662	6464	1.488						
180	8616	1.652	7150	1.426						
200	9092	1.642								
220	9402	1.631								
230	9084	1.619								

