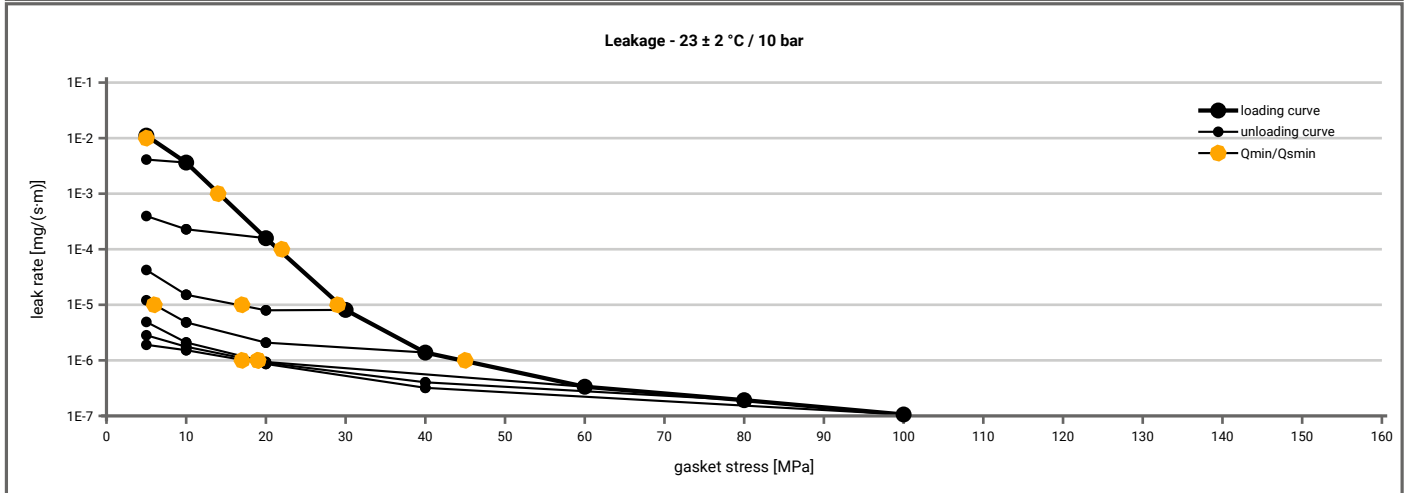
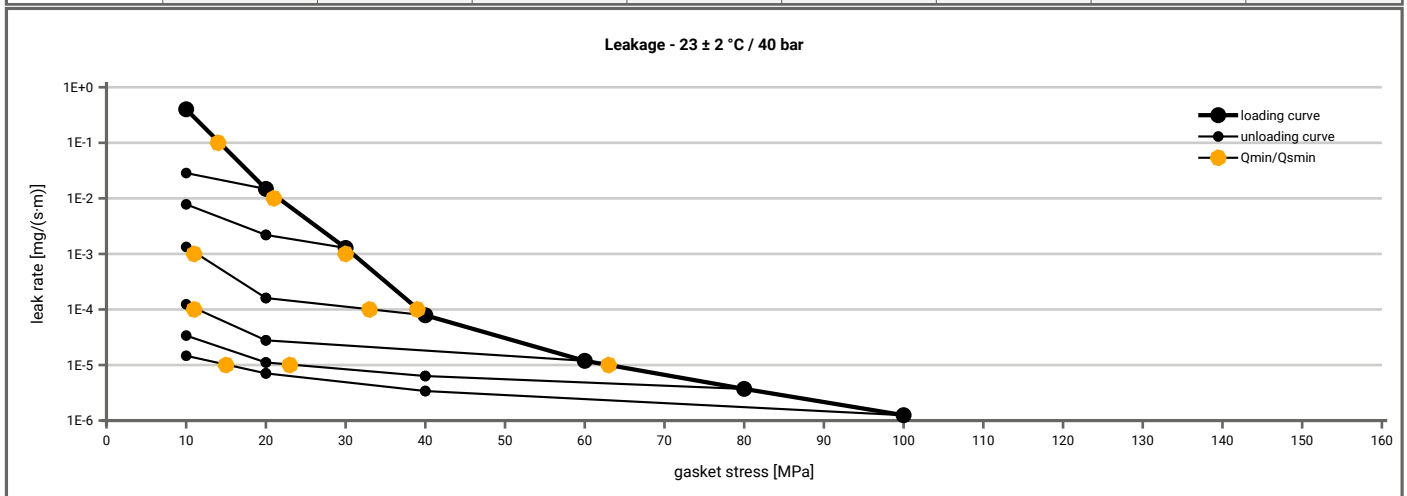


Manufacturer address	REINZ-Dichtungs-GmbH, Reinzstraße 3-7, 89233 Neu-Ulm, DE	According to <b>DIN EN 13555</b> 2014-7
Product name	AFM 34 CO ME	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

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]							
		$Q_A = 5.5$ [MPa]	$Q_A = 11$ [MPa]	$Q_A = 21$ [MPa]	$Q_A = 31$ [MPa]	$Q_A = 41$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]
1E-0	5		6	6	6	6	6	6	6
1E-1	5		6	6	6	6	6	6	6
1E-2	6		6	6	6	6	6	6	6
1E-3	15			6	6	6	6	6	6
1E-4	22				6	6	6	6	6
1E-5	30				17	7	6	6	6
1E-6	45						20	19	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]							
		$Q_A = 10$ [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]	
1E-0	10		10	10	10	10	10	10	10
1E-1	14		10	10	10	10	10	10	10
1E-2	22			10	10	10	10	10	10
1E-3	31				11	10	10	10	10
1E-4	39				33	11	10	10	10
1E-5	63						24	15	
1E-6									
1E-7									
1E-8									



Note: the content of darkened cells was not determined respectively is unnecessary      Rev.-No.: 1      Creation date of this sheet: 2015-05-08

<b>Manufacturer address</b>	REINZ-Dichtungs-GmbH, Reinzstraße 3-7, 89233 Neu-Ulm, DE	According to <b>DIN EN 13555</b> 2014-7
<b>Product name</b>	AFM 34 CO ME	
<b>Product dimensions</b>	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]	
	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]
Stress level 1 [30 MPa]	0.95	13	0.82	45	0.79	53	0.75	64	0.64	92
Stress level 2 [50 MPa]	0.96	17	0.87	57	0.84	69	0.80	84	0.68	134
Stress level 3 [100 MPa]	0.98	17	0.87	113	0.81	164				
$P_{QR}$ and $\Delta e_{Gc}$ at maximum gasket stress to be applied ( $Q_{smax}$ )										
$P_{QR}$ at $Q_{smax}$	0.99	19	0.87	113	0.81	164	0.78	151	0.68	134
$Q_{smax}$	230 MPa		100 MPa		100 MPa		80 MPa		50 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	2.000	0	2.000	0	1.985	0	2.010	0	2.010
1	0	1.960	0	1.950	0	1.939	0	1.958	0	1.946
20	2481	1.891	3975	1.841	4124	1.823	5197	1.839	6474	1.810
30	2870	1.868	3879	1.826	4445	1.812	3678	1.825	7166	1.789
40	3322	1.850	4210	1.812	4422	1.798	4328	1.809	4153	1.750
50	3992	1.836	4463	1.798	4249	1.783	3918	1.790	4769	1.700
60	4571	1.825	4847	1.784	4798	1.766	4348	1.768		
80	5890	1.808	5299	1.751	4663	1.720	4810	1.695		
100	6976	1.794	5882	1.715	5621	1.660				
120	7806	1.781								
140	8527	1.769								
160	9209	1.757								
180	9623	1.746								
200	10015	1.734								
220	10264	1.723								
230	10240	1.716								

