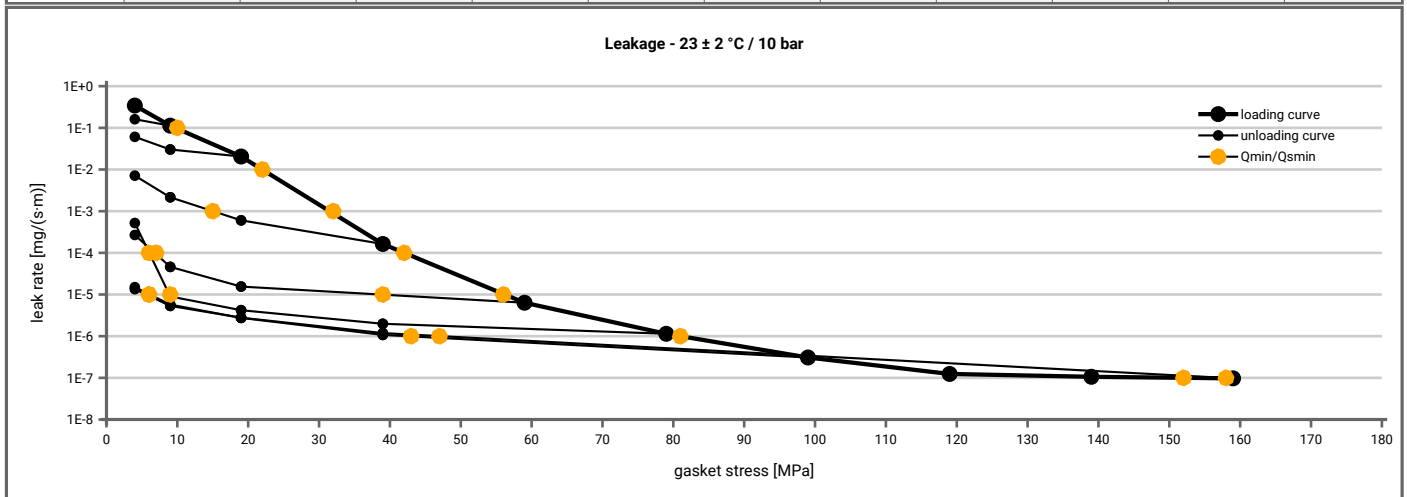
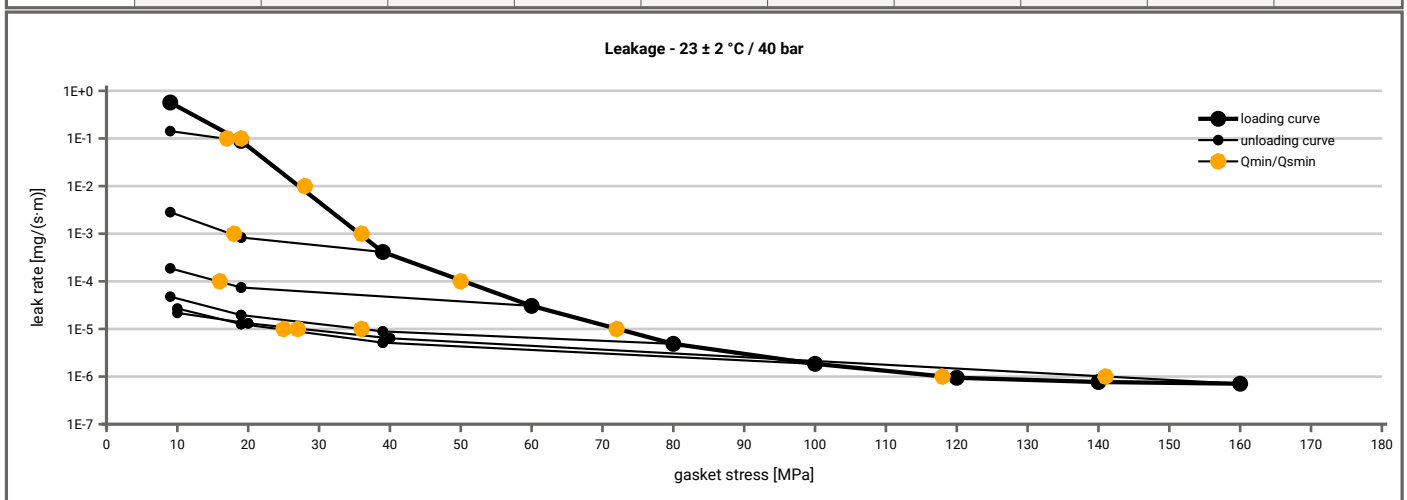


Manufacturer address	TEADIT International Produktions GmbH, Schanzenstr. 35, 51063 Köln, DE	According to DIN EN 13555 2005-2
Product name	NA1100	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

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]	$Q_A = 9.8$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 139$ [MPa]	$Q_A = 159$ [MPa]
1E-0	5		5	5	5	5	5	5			5
1E-1	10			5	5	5	5	5			5
1E-2	23				5	5	5	5			5
1E-3	32				16	5	5	5			5
1E-4	43					8	7	5			5
1E-5	57					39	10	7			6
1E-6	82							43			48
1E-7	153										158
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]	$Q_A = 40$ [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]	
1E-0	10		10	10	10	10	10	10			10
1E-1	19		17	10	10	10	10	10			10
1E-2	28			10	10	10	10	10			10
1E-3	37			18	10	10	10	10			10
1E-4	51				17	10	10	10			10
1E-5	72					37	25				28
1E-6	118										141
1E-7											
1E-8											



Note: the content of darkened cells was not determined respectively is unnecessary Rev.-No.: 1 Creation date of this sheet: 2011-10-05

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Product name	NA1100	
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 [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]	0.92	20	0.79	54	0.59	104				
Stress level 2 [140 MPa]	0.98	29	0.73	323						
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.99	29	0.74	502	0.64	151				
Q_{smax}	230 MPa		230 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 [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	2.037	0	2.087	0	2.143				
1	0	2.037	0	2.087	0	2.143				
20	741	1.875	936	1.871	1640	1.897				
30	1121	1.824	1308	1.833	1651	1.873				
40	1253	1.780	1424	1.791	2304	1.852				
50	1837	1.750	1819	1.760	2309	1.822				
60	1932	1.723	2283	1.735						
80	3386	1.694	2936	1.676						
100	3089	1.665	3154	1.606						
120	3480	1.640	3563	1.507						
140	3998	1.621	3797	1.402						
160	4968	1.604	3100	1.276						
180	4814	1.582	3515	1.161						
200	4930	1.562	3006	1.034						
220	4702	1.538	3340	0.956						
230	4788	1.526	3174	0.911						

