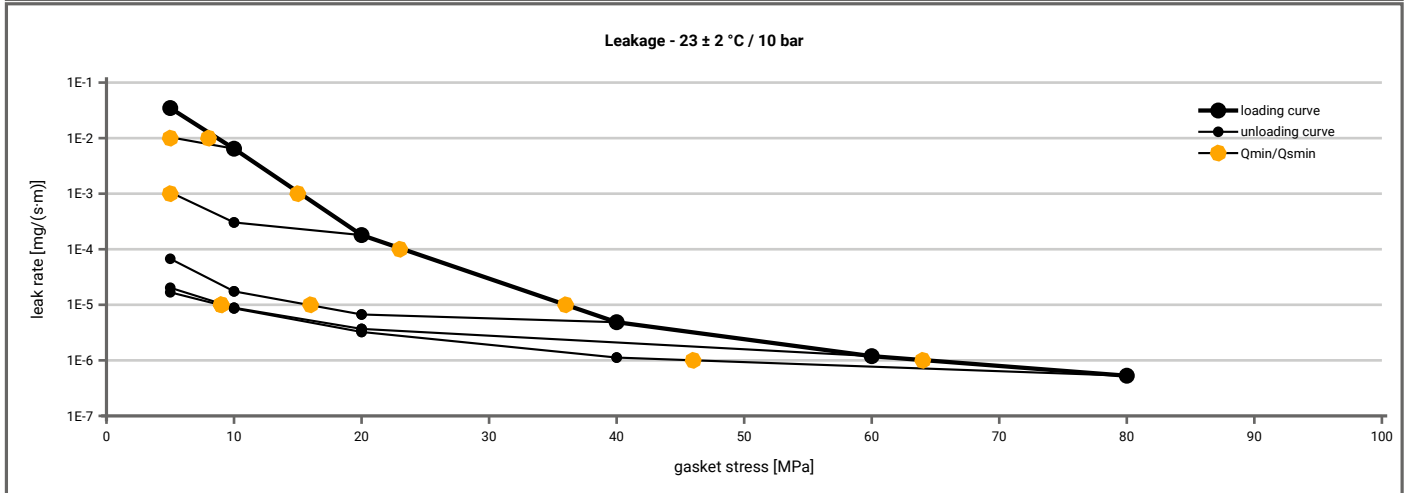


Manufacturer address	Frenzelit GmbH, Frankenhammer, 95460 Bad Berneck, DE	According to DIN EN 13555 2014-7
Product name	novapress® 880	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

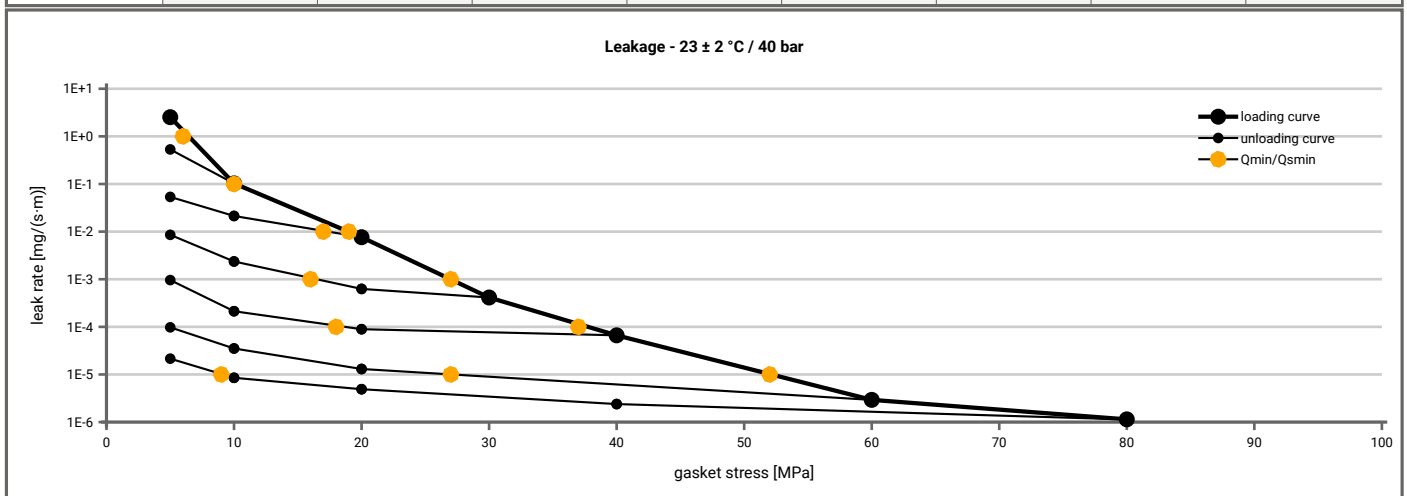
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10 \text{ bar}$ ($T = 23 \pm 2 \text{ }^\circ\text{C}$)

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]
1E-0	5		5	5	5	5	5
1E-1	5		5	5	5	5	5
1E-2	9		6	5	5	5	5
1E-3	15			5	5	5	5
1E-4	23				5	5	5
1E-5	36				16	9	9
1E-6	65						46
1E-7							
1E-8							



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40 \text{ bar}$ ($T = 23 \pm 2 \text{ }^\circ\text{C}$)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]						
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]
1E+1	5		5	5	5	5	5	5
1E-0	6		5	5	5	5	5	5
1E-1	10			5	5	5	5	5
1E-2	19			17	5	5	5	5
1E-3	27				16	5	5	5
1E-4	38					19	5	5
1E-5	52						27	9
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: 2018-03-26

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Product name	novapress® 880	
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 [150 °C]		Temperature 2 [200 °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 [20 MPa]	0.94	11	0.77	39	0.65	60				
Stress level 2 [50 MPa]	0.96	19	0.83	73	0.78	94				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.99	29	0.80	235	0.73	227				
Q_{smax}	230 MPa		140 MPa		100 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [200 °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	2.008	0	2.007	0	2.050				
1	0	2.004	0	1.989	0	2.029				
20	527	1.791	885	1.694	870	1.677				
30	802	1.723	1028	1.636	831	1.614				
40	1102	1.666	1348	1.567	1297	1.552				
50	1725	1.630	1610	1.512	1542	1.495				
60	2231	1.598	1975	1.452	1646	1.446				
80	2575	1.539	2096	1.364	2552	1.360				
100	4092	1.486	2317	1.283	2354	1.288				
120	4786	1.444	3859	1.214						
140	4295	1.401	3499	1.152						
160	5181	1.367								
180	5541	1.339								
200	5226	1.309								
220	5373	1.288								
230	6246	1.268								

