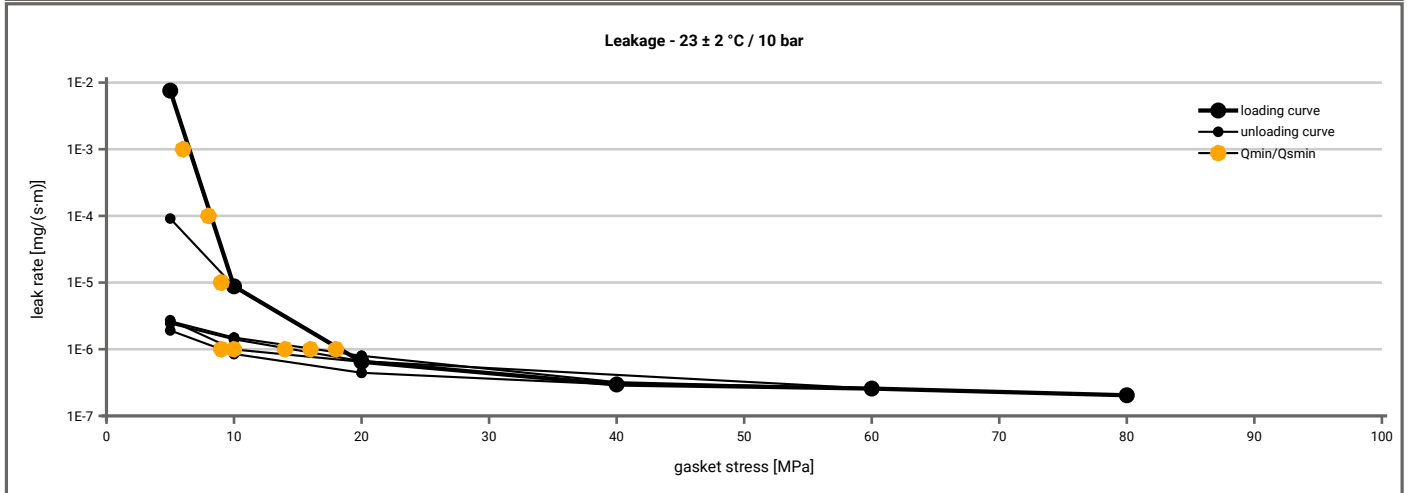


Manufacturer address	Frenzelit GmbH, Frankenhammer, 95460 Bad Berneck, DE	According to DIN EN 13555 2014-7
Product name	novapress 850 / novaform 2300	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

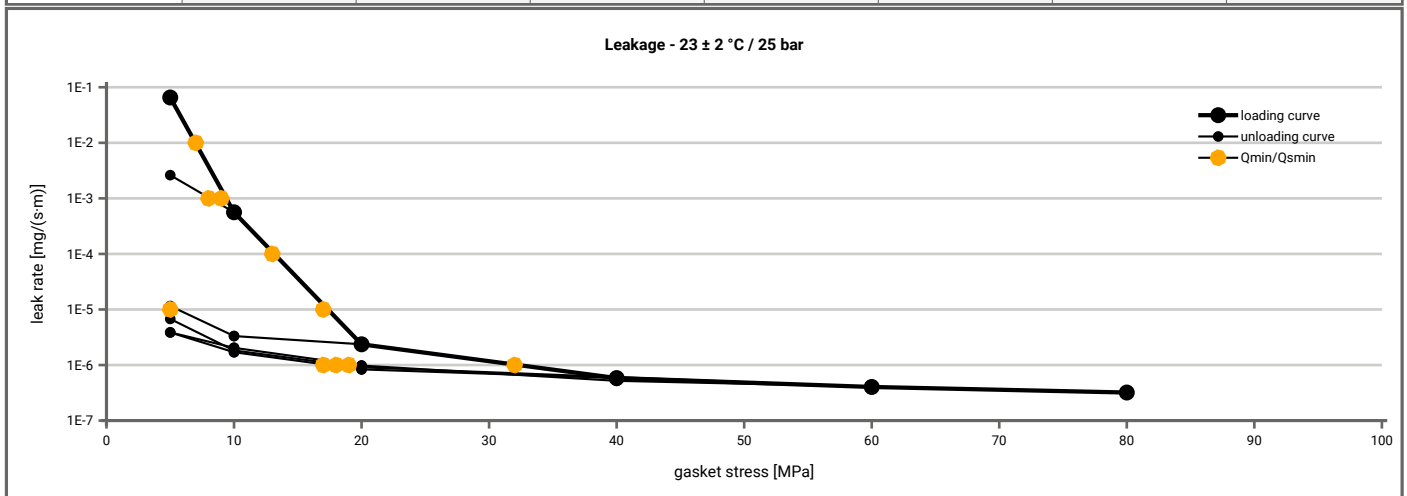
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10 \text{ bar}$ ($T = 23 \pm 2 \text{ }^\circ\text{C}$)

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	5		5	5	5	5	5
1E-3	7		5	5	5	5	5
1E-4	8		5	5	5	5	5
1E-5	10		10	5	5	5	5
1E-6	18			10	9	15	16
1E-7							
1E-8							



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 25 \text{ bar}$ ($T = 23 \pm 2 \text{ }^\circ\text{C}$)

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	7		5	5	5	5	5
1E-3	9		8	5	5	5	5
1E-4	13			5	5	5	5
1E-5	17			6	5	5	5
1E-6	32				18	19	20
1E-7							
1E-8							



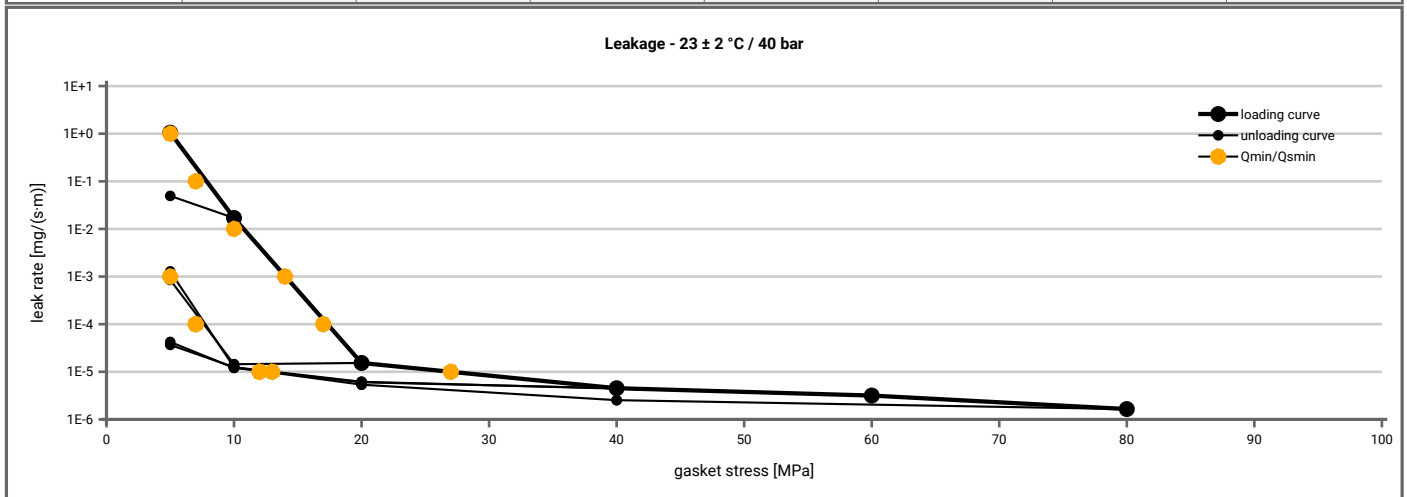
Note: the content of darkened cells was not determined respectively is unnecessary

Rev.-No.: 1

Creation date of this sheet: 2015-11-10

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Product name	novapress 850 / novaform 2300	
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 $p = 40$ 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]
1E+1	5		5	5	5	5	5
1E-0	5		5	5	5	5	5
1E-1	8		5	5	5	5	5
1E-2	11			5	5	5	5
1E-3	14			5	5	5	5
1E-4	17			8	5	5	8
1E-5	27				13	13	13
1E-6							
1E-7							
1E-8							



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Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [150 °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 [10 MPa]	0.91	8	0.86	12	0.87	11				
Stress level 2 [15 MPa]	0.93	9	0.85	20	0.82	23				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.99	28	0.71	195	0.58	214				
Q_{smax}	220 MPa		80 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]		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	1.853	0	1.909	0	1.911				
1	0	1.811	0	1.824	0	1.837				
5	161	1.711	206	1.707	396	1.731				
10	363	1.666	369	1.629	375	1.660				
15	655	1.636	468	1.539	466	1.579				
20	963	1.605	794	1.460	615	1.493				
30	1202	1.548	1047	1.316	922	1.345				
40	1267	1.496	1435	1.212	1128	1.225				
50	2174	1.462	1677	1.133	1713	1.145				
60	1480	1.415	2211	1.076	1727	1.100				
80	2607	1.363	2919	1.001						
100	2593	1.320								
120	2628	1.279								
140	2789	1.250								
160	3375	1.227								
180	2986	1.202								
200	3198	1.185								
220	3584	1.170								

