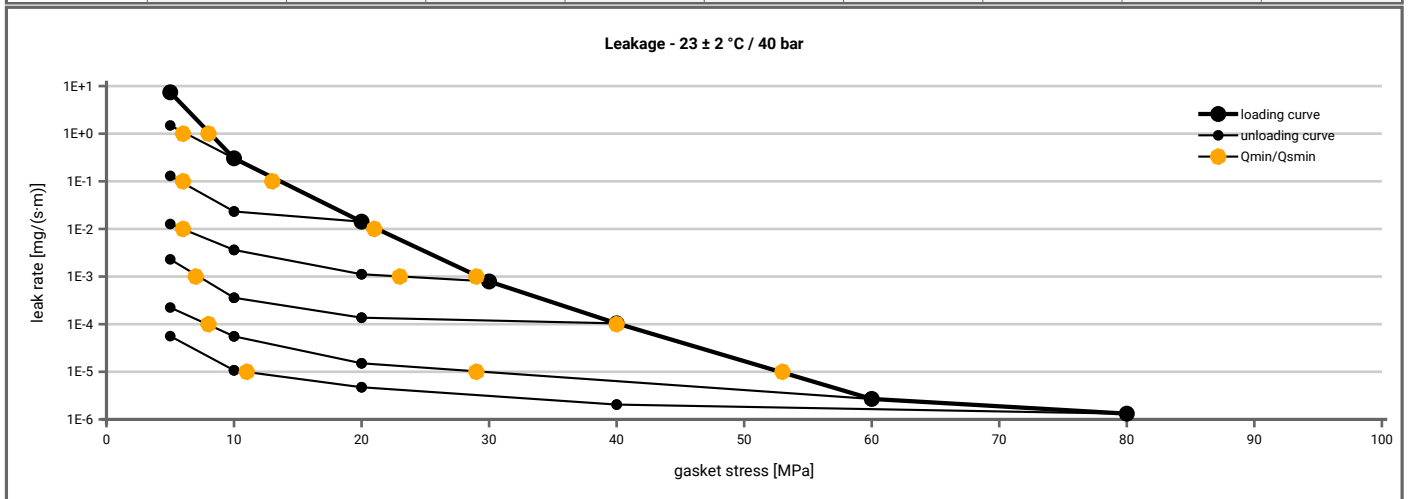


Manufacturer address	Frenzelit GmbH, Frankenhammer, 95460 Bad Berneck, DE	According to DIN EN 13555 2014-7
Product name	novapress® 880 mit Innenbördel 0,1 mm	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

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]							
		$Q_A = 5.2$ [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	8		6	5		5	5	5	5
1E-1	14			6		5	5	5	5
1E-2	21					6	5	5	5
1E-3	29					23	7	5	5
1E-4	40							8	5
1E-5	53							30	11
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 [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]	0.93	13	0.76	41	0.67	56				
Stress level 2 [50 MPa]	0.96	19	0.82	78	0.77	99				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.98	39	0.79	253	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	2.029	0	2.037	0	2.015				
1	0	2.029	0	2.037	0	2.015				
20	496	1.746	779	1.692	775	1.641				
30	725	1.663	1039	1.639	1107	1.586				
40	1224	1.609	1406	1.577	1194	1.508				
50	1374	1.560	1821	1.520	1619	1.448				
60	1869	1.520	2287	1.470	2377	1.394				
80	2582	1.455	3157	1.395	3527	1.321				
100	3167	1.405	4275	1.349	4662	1.267				
120	3294	1.359	5265	1.280						
140	4492	1.322	5754	1.215						
160	4746	1.293								
180	5380	1.268								
200	4706	1.241								
220	4055	1.214								
230	4026	1.198								

