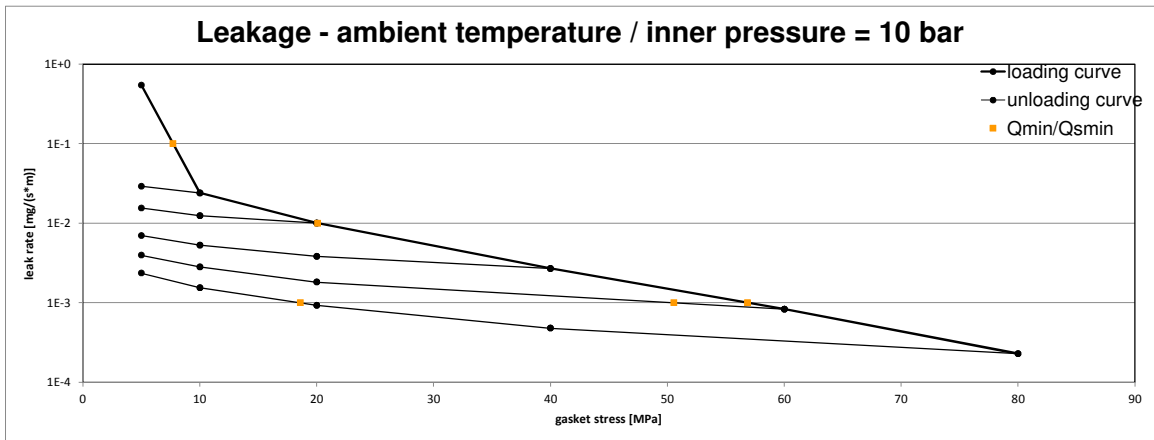
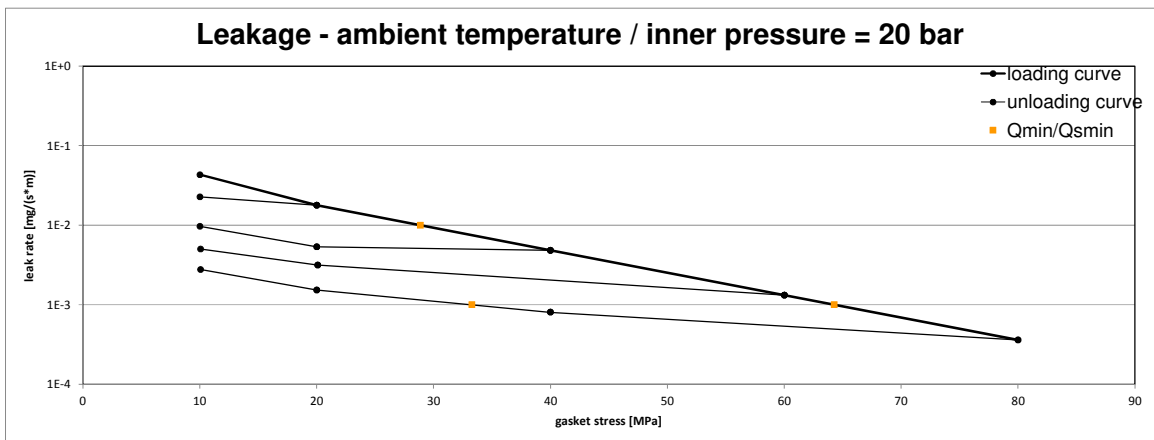


Company Address	Frenzelt GmbH; Frankenhammer; 95460 Bad Berneck	According to DIN EN 13555 2014-07
Gasket Type	novaphit® SSTC	
Sealing element dimensions [mm]	92 x 49 x 2.0	

		Minimum stress to seal $Q_{min,L}$ (at assembly), $Q_{Smin,L}$ (after off-loading) for p = 10 bar										
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						
10^0	5	5	5	5	5	5						
10^{-1}	8	5	5	5	5	5						
10^{-2}	20			5	5	5						
10^{-3}	57				51	19						
10^{-4}												
10^{-5}												
10^{-6}												
10^{-7}												
10^{-8}												



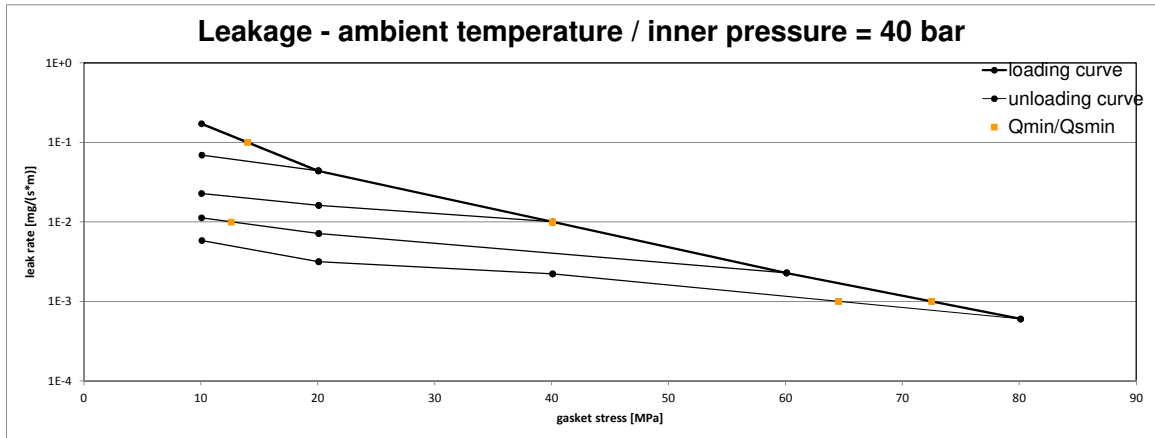
		Minimum stress to seal $Q_{min,L}$ (at assembly), $Q_{Smin,L}$ (after off-loading) for p = 20 bar									
L [mg/(s*m)]	$Q_{min,L}$ [MPa]	$Q_{Smin,L}$ [MPa]									
		$Q_A=20$ MPa	$Q_A=40$ MPa	$Q_A=60$ MPa	$Q_A=80$ MPa						
10^0	10	10	10	10	10						
10^{-1}	10	10	10	10	10						
10^{-2}	29		10	10	10						
10^{-3}	64				33						
10^{-4}											
10^{-5}											
10^{-6}											
10^{-7}											
10^{-8}											



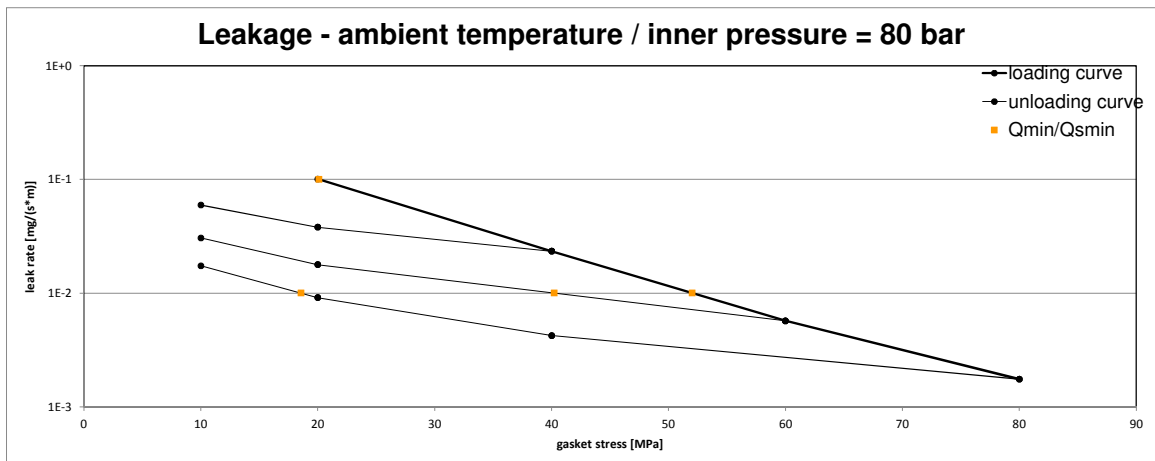
Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: 1	Creation date of this sheet: 2022-04-07
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Company Address	Frenzelt GmbH; Frankenhammer; 95460 Bad Berneck	According to DIN EN 13555 2014-07
Gasket Type	novaphit® SSTC	
Sealing element dimensions [mm]	92 x 49 x 2.0	

		Minimum stress to seal $Q_{min,L}$ (at assembly), $Q_{Smin,L}$ (after off-loading) for p = 40 bar							
L [mg/(s·m)]	$Q_{min,L}$ [MPa]	$Q_{Smin,L}$ [MPa]							
		$Q_A=20$ MPa	$Q_A=40$ MPa	$Q_A=60$ MPa	$Q_A=80$ MPa				
10^0	10	10	10	10	10				
10^{-1}	14	10	10	10	10				
10^{-2}	40		40	13	10				
10^{-3}	73				65				
10^{-4}									
10^{-5}									
10^{-6}									
10^{-7}									
10^{-8}									



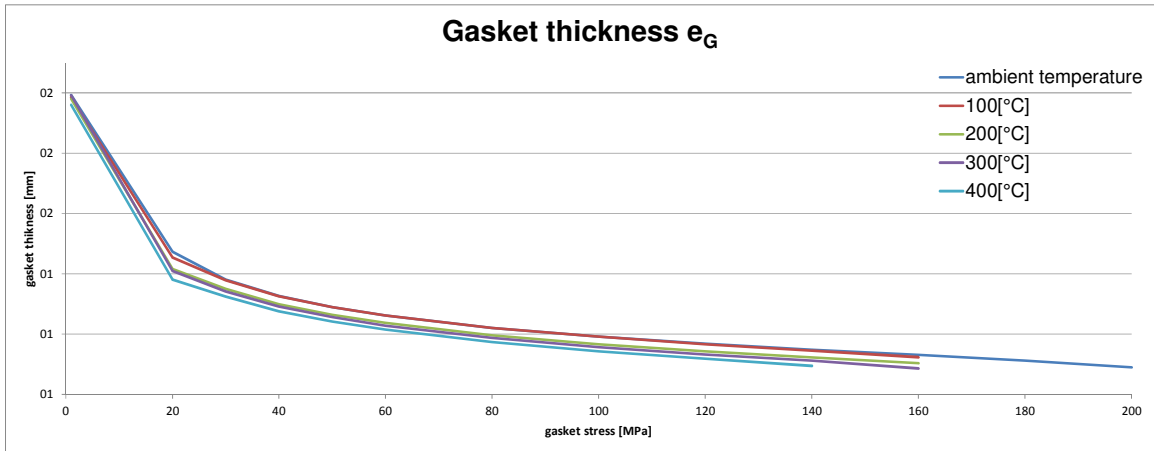
		Minimum stress to seal $Q_{min,L}$ (at assembly), $Q_{Smin,L}$ (after off-loading) for p = 80 bar		
L [mg/(s·m)]	$Q_{min,L}$ [MPa]	$Q_{Smin,L}$ [MPa]		
		$Q_A=40$ MPa	$Q_A=60$ MPa	$Q_A=80$ MPa
10^0	20	10	10	10
10^{-1}	20	10	10	10
10^{-2}	52		40	19
10^{-3}				
10^{-4}				
10^{-5}				
10^{-6}				
10^{-7}				
10^{-8}				



Company Address	Frenzelt GmbH; Frankenhammer; 95460 Bad Berneck	According to DIN EN 13555 2014-07
Gasket Type	novaphit® SSTC	
Sealing element dimensions [mm]	92 x 49 x 2.0	

Relaxation ratio P_{OR} for stiffness $C = 500 \text{ kN/mm}$										
Gasket stress	temperature 1 [25 °C]		temperature 2 [100 °C]		temperature 3 [200 °C]		temperature 4 [300 °C]		temperature 5 [400 °C]	
	P_{OR}	Δe_{Gc} [mm]	P_{OR}	Δe_{Gc} [mm]	P_{OR}	Δe_{Gc} [mm]	P_{OR}	Δe_{Gc} [mm]	P_{OR}	Δe_{Gc} [mm]
Stress level 1 [30 MPa]	0.98	0.005	0.95	0.013	0.93	0.018	0.91	0.023	0.91	0.023
P_{OR} and Δe_{Gc} at maximal applicable gasket stress Q_{Smax}										
P_{OR} at Q_{Smax}	0.99	0.017	0.98	0.027	0.97	0.040	0.96	0.054	0.96	0.047
Q_{Smax}	200 MPa		160 MPa		160 MPa		160 MPa		140 MPa	

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [100 °C]		temperature 2 [200 °C]		temperature 3 [300 °C]		temperature 4 [400 °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										
1		1.893		1.885		1.881		1.892		1.861
20	469	1.373	508	1.354	549	1.315	571	1.310	598	1.281
30	764	1.281	799	1.278	813	1.249	780	1.242	839	1.224
40	1103	1.227	1114	1.225	1128	1.199	1120	1.192	1125	1.175
50	1440	1.190	1485	1.190	1459	1.164	1422	1.156	1471	1.141
60	1839	1.162	1869	1.162	1829	1.137	1686	1.128	1800	1.115
80	2589	1.121	2549	1.121	2557	1.096	2379	1.087	2409	1.074
100	3375	1.091	3348	1.091	3047	1.066	3034	1.057	2933	1.042
120	4199	1.068	3998	1.067	3736	1.043	3450	1.033	3540	1.018
140	4975	1.048	4635	1.045	4311	1.023	4078	1.012	4164	0.994
160	5622	1.031	4997	1.023	4812	1.003	4449	0.986		
180	6209	1.012								
200	6568	0.990								
220										
240										
260										
280										
300										
320										
340										
360										
380										
400										
420										
440										
460										
480										
500										



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