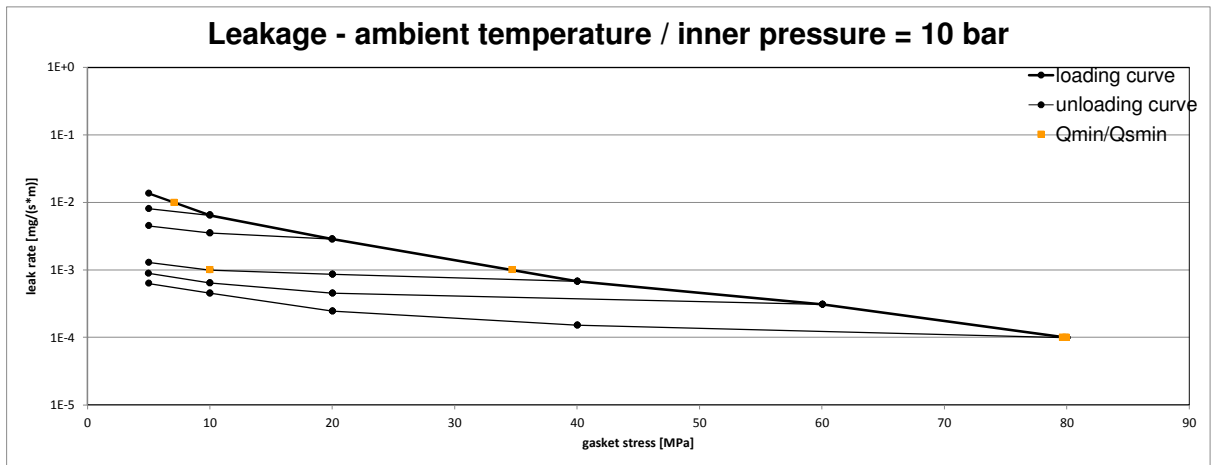
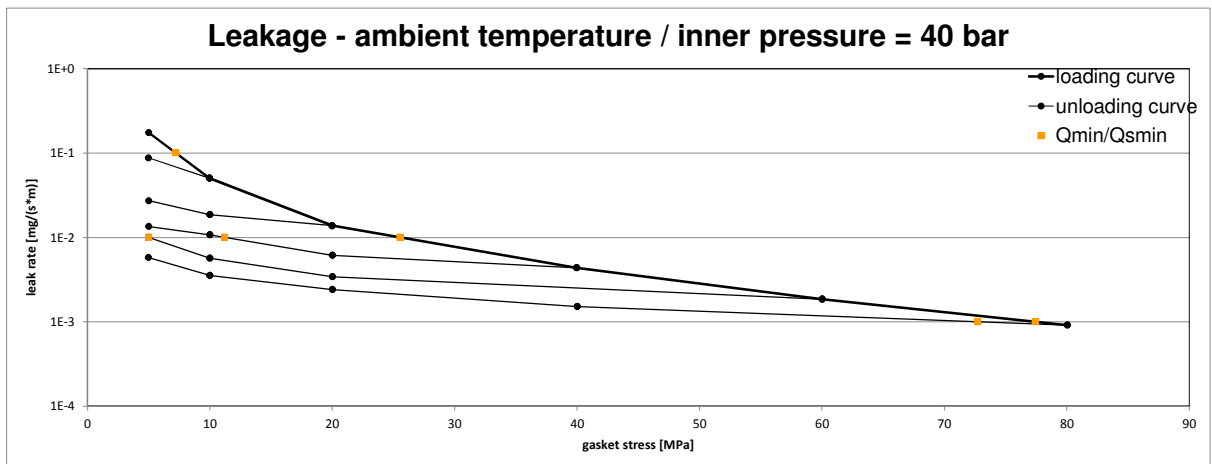


Company Address	Frenzelt GmbH; Frankenhammer; 95460 Bad Berneck	According to <b>DIN EN 13555</b> 2014-07
Gasket Type	novaphit® 400 mit XP-Technologie	
Sealing element dimensions [mm]	92x49x0.75	

		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						
$10^{-1}$	5	5	5	5	5	5						
$10^{-2}$	7		5	5	5	5						
$10^{-3}$	35			10	5	5						
$10^{-4}$	80					80						
$10^{-5}$												
$10^{-6}$												
$10^{-7}$												
$10^{-8}$												



		Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for p = 40 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						
$10^{-1}$	7	5	5	5	5	5						
$10^{-2}$	26			11	5	5						
$10^{-3}$	77					73						
$10^{-4}$												
$10^{-5}$												
$10^{-6}$												
$10^{-7}$												
$10^{-8}$												



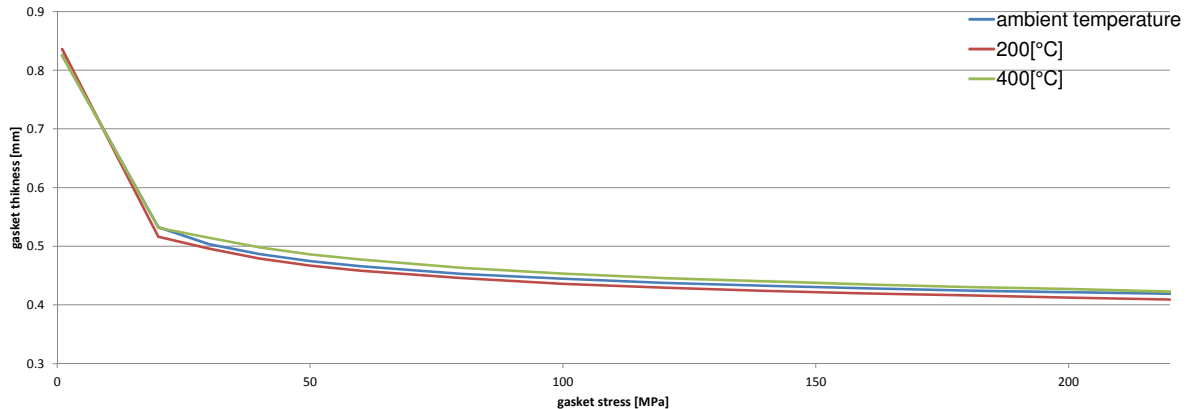
Note: the content of darkened cells was not determined respectively is unnecessary      Rev - No: 1      Creation date of this sheet: 2019-01-09

Company Address	Frenzelt GmbH; Frankenhammer; 95460 Bad Berneck	According to <b>DIN EN 13555</b> 2014-07
Gasket Type	novaphit® 400 mit XP-Technologie	
Sealing element dimensions [mm]	92x49x0.75	

Relaxation ratio $P_{OR}$ for stiffness $C = 500$ kN/mm										
Gasket stress	temperature 1 [25 °C]		temperature 2 [200 °C]		temperature 3 [400 °C]		$P_{OR}$	$\Delta e_{Gc}$ [mm]	$P_{OR}$	$\Delta e_{Gc}$ [mm]
	$P_{OR}$	$\Delta e_{Gc}$ [mm]	$P_{OR}$	$\Delta e_{Gc}$ [mm]	$P_{OR}$	$\Delta e_{Gc}$ [mm]				
Stress level 1 [30 MPa]	0.99	0.003	0.95	0.013	0.95	0.013				
$P_{OR}$ and $\Delta e_{Gc}$ at maximal applicable gasket stress $Q_{Smax}$										
$P_{OR}$ at $Q_{Smax}$	0.99	0.018	0.98	0.037	0.98	0.037				
$Q_{Smax}$	220 MPa		220 MPa		220 MPa					

Sekant unloading modulus of the gasket $E_G$ [MPa] and gasket thickness $e_G$ [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [200 °C]		temperature 2 [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		0.826		0.836		0.826				
20	487	0.533	527	0.517	474	0.531				
30	851	0.504	851	0.496	765	0.515				
40	1296	0.487	1250	0.479	1144	0.498				
50	1814	0.475	1581	0.467	1490	0.486				
60	2389	0.466	2126	0.459	1997	0.477				
80	3373	0.453	3000	0.446	2561	0.463				
100	4740	0.445	3414	0.436	3176	0.454				
120	5580	0.438	4129	0.430	3624	0.446				
140	6834	0.433	4642	0.424	4273	0.440				
160	7883	0.428	5254	0.420	5129	0.435				
180	8636	0.425	5858	0.416	5308	0.431				
200	10009	0.422	6373	0.413	6061	0.427				
220	11206	0.419	6704	0.409	6004	0.423				
240										
260										
280										
300										
320										
340										
360										
380										
400										
420										
440										
460										
480										
500										
940										

**Gasket thickness  $e_G$**



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

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