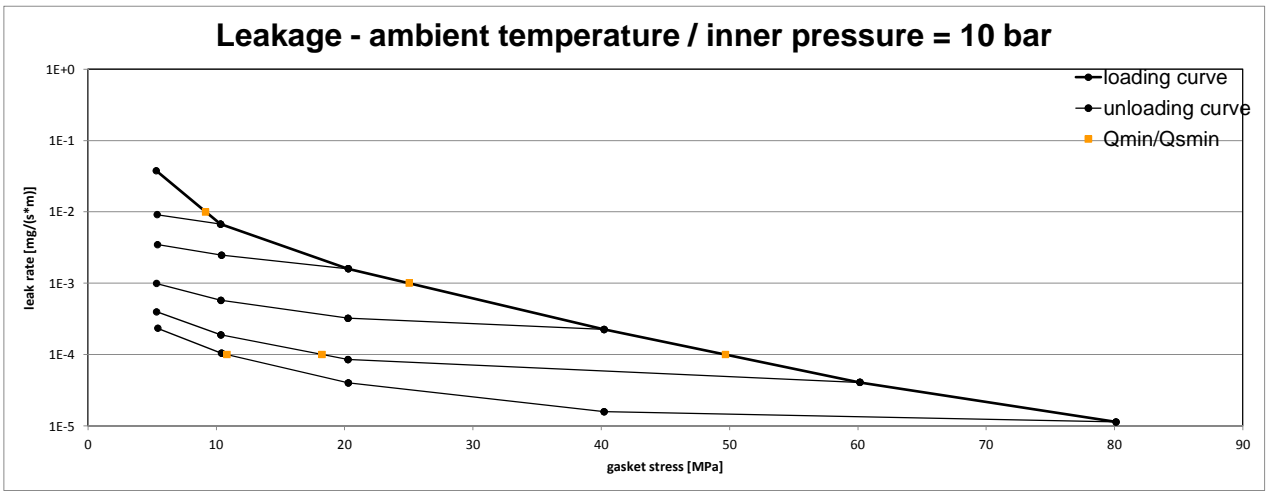
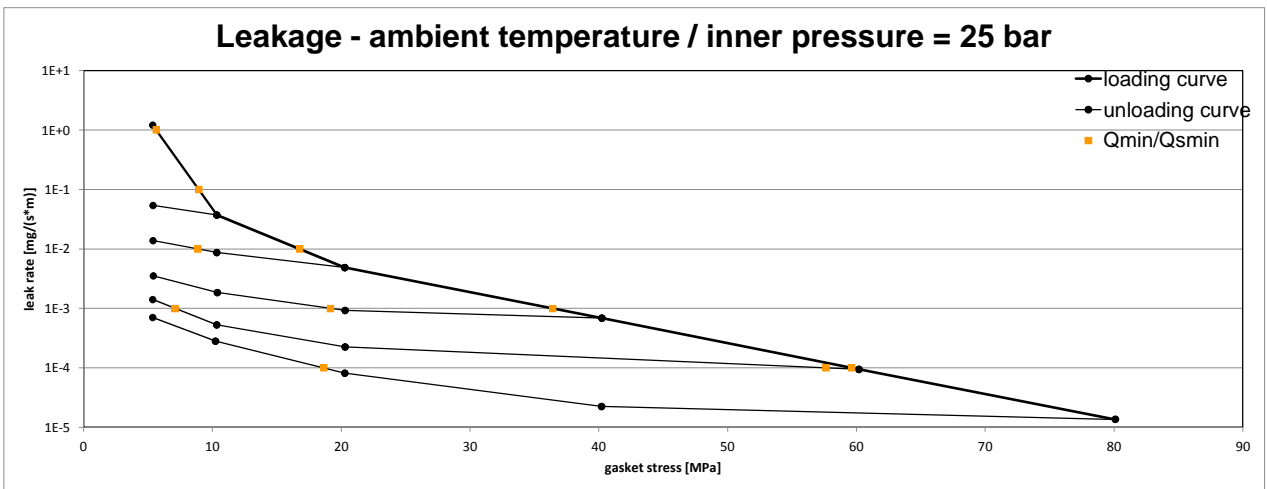


Company Address	Frenzelit-Werke, Frankenhammer 7, 95460 Bad Berneck, Germany
Gasket Type	novaphit SSTC TA-L
Sealing element dimensions [mm]	92 x 49 x 2.0

L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 10 bar					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	9	5	5	5	5	5					
10 ⁻³	25			5	5	5					
10 ⁻⁴	50				18	11					
10 ⁻⁵											
10 ⁻⁶											
10 ⁻⁷											
10 ⁻⁸											



L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 25 bar					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	6	5	5	5	5	5			
10 ⁻¹	9	5	5	5	5	5					
10 ⁻²	17		9	5	5	5					
10 ⁻³	36			19	7	5					
10 ⁻⁴	60				58	19					
10 ⁻⁵											
10 ⁻⁶											
10 ⁻⁷											
10 ⁻⁸											

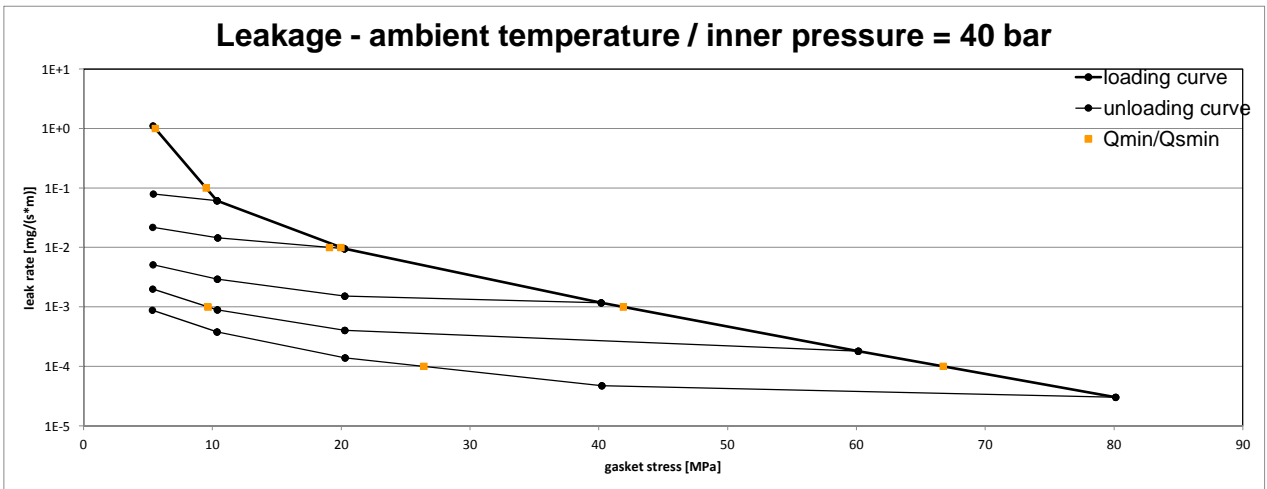


Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 1 Creation date of this sheet: 09.09.2011

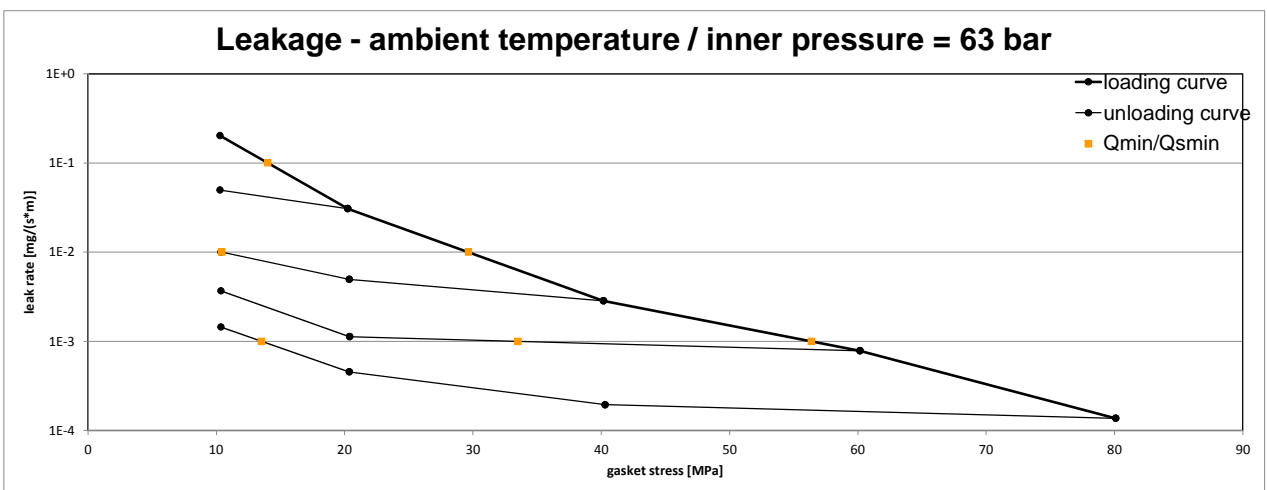


Company Address	Frenzelit-Werke, Frankenhammer 7, 95460 Bad Berneck, Germany
Gasket Type	novaphit SSTC TA-L
Sealing element dimensions [mm]	92 x 49 x 2.0

L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 40 bar					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	6	5	5	5	5	5					
10 ⁻¹	10	5	5	5	5	5					
10 ⁻²	20		19	5	5	5					
10 ⁻³	42				10	5					
10 ⁻⁴	67					26					
10 ⁻⁵											
10 ⁻⁶											
10 ⁻⁷											
10 ⁻⁸											



L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 63 bar				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	30		10	10	10					
10 ⁻³	56			34	14					
10 ⁻⁴										
10 ⁻⁵										
10 ⁻⁶										
10 ⁻⁷										
10 ⁻⁸										



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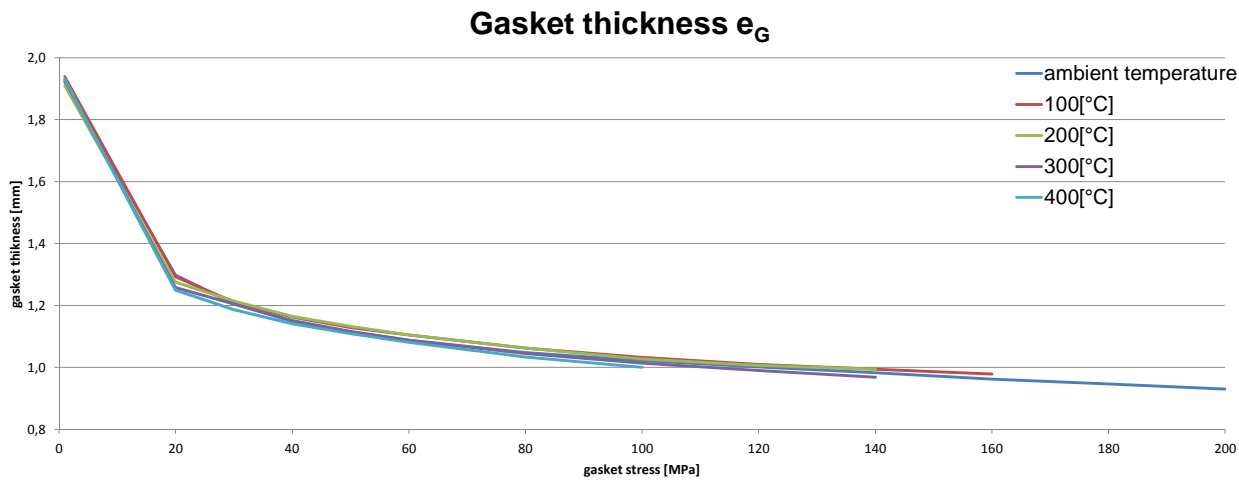


Company Address	Frenzelit-Werke, Frankenhammer 7, 95460 Bad Berneck, Germany
Gasket Type	novaphit SSTC TA-L
Sealing element dimensions [mm]	92 x 49 x 2.0

Relaxation ratio P_{QR} for stiffness $C = 500 \text{ kN/mm}$					
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [200 °C]	temperature 3 [300 °C]	temperature 4 [400 °C]
Stress level 1 [30 MPa]	0,99	0,94	0,93	0,93	0,93
PQR at Q_{Smax}	1,00 at 200 MPa	0,99 at 160 MPa	0,97 at 140 MPa	0,96 at 140 MPa	0,93 at 110 MPa

Maximal applicable gasket stress Q_{Smax}				
Q_{Smax} [MPa] ambient temperature	Q_{Smax} [MPa] – temperature 1 [100 °C]	Q_{Smax} [MPa] – temperature 2 [200 °C]	Q_{Smax} [MPa] – temperature 3 [300 °C]	Q_{Smax} [MPa] – temperature 4 [400 °C]
200	160	140	140	110

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		1,92		1,94		1,91		1,93		1,93
20	473	1,30	513	1,29	564	1,28	624	1,26	540	1,25
30	815	1,21	761	1,21	811	1,21	848	1,21	808	1,19
40	1049	1,15	1222	1,16	1459	1,17	1104	1,15	1346	1,14
50	1565	1,12	1725	1,13	1840	1,13	1780	1,12	1801	1,11
60	1807	1,09	2157	1,10	1906	1,10	1934	1,09	1856	1,08
80	2682	1,05	2627	1,06	2569	1,06	2876	1,04	2310	1,03
100	4051	1,02	3198	1,03	3116	1,03	3399	1,01	3029	1,00
120	4457	1,00	4355	1,01	4622	1,01	4270	0,99		
140	5071	0,98	6866	0,99	6451	0,99	4534	0,97		
160	5534	0,96	8418	0,98						
180	6759	0,95								
200	7815	0,93								



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