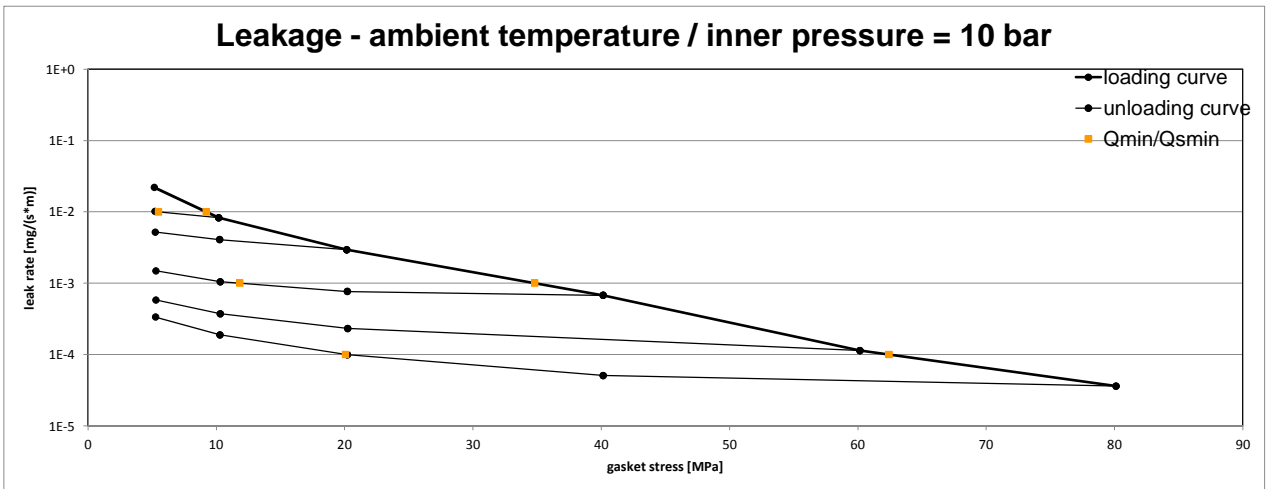
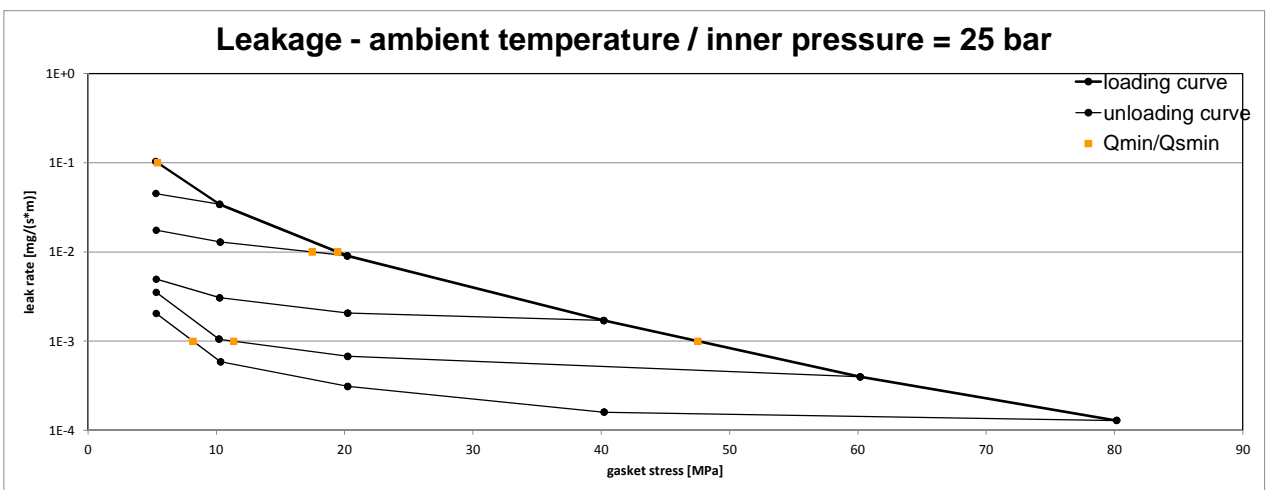


Company Address	Frenzelit-Werke, Frankenhammer 7, 95460 Bad Berneck, Germany
Gasket Type	novaphit SSTC TA-L with inner eyelet
Sealing element dimensions [mm]	92 x 49 x 2.0

L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 10 bar					Q <sub>Smin/L</sub> [MPa]						
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa							
10 <sup>0</sup>	5	5	5	5	5	5							
10 <sup>-1</sup>	5	5	5	5	5	5							
10 <sup>-2</sup>	9	5	5	5	5	5							
10 <sup>-3</sup>	35			12	5	5							
10 <sup>-4</sup>	62					20							
10 <sup>-5</sup>													
10 <sup>-6</sup>													
10 <sup>-7</sup>													
10 <sup>-8</sup>													



L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 25 bar					Q <sub>Smin/L</sub> [MPa]						
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa							
10 <sup>0</sup>	5	5	5	5	5	5							
10 <sup>-1</sup>	5	5	5	5	5	5							
10 <sup>-2</sup>	19		17	5	5	5							
10 <sup>-3</sup>	48				11	8							
10 <sup>-4</sup>													
10 <sup>-5</sup>													
10 <sup>-6</sup>													
10 <sup>-7</sup>													
10 <sup>-8</sup>													

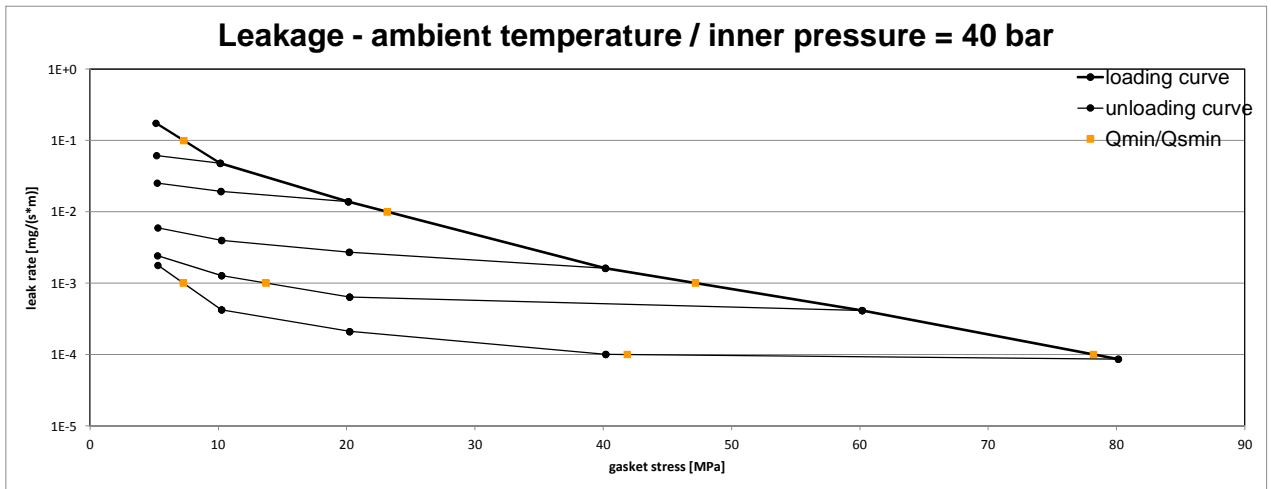


Note: the content of darkened cells was not determined respectively is unnecessary      Rev - No: 1      Creation date of this sheet: 09.09.2011

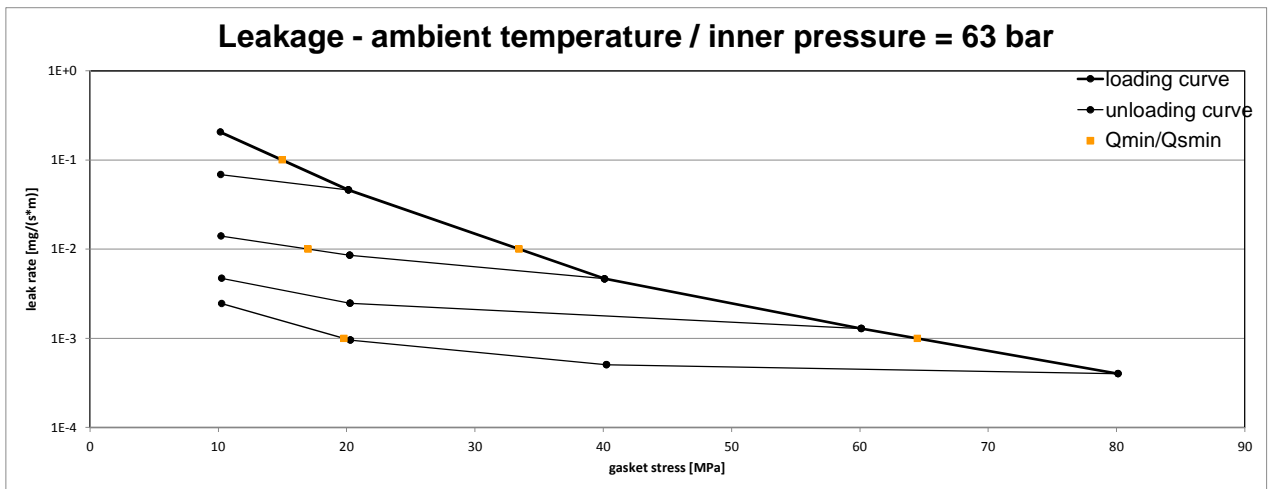


Company Address	Frenzelit-Werke, Frankenhammer 7, 95460 Bad Berneck, Germany
Gasket Type	novaphit SSTC TA-L with inner eyelet
Sealing element dimensions [mm]	92 x 49 x 2.0

L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 40 bar					Q <sub>Smin/L</sub> [MPa]				
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa					
10 <sup>0</sup>	5	5	5	5	5	5					
10 <sup>-1</sup>	7	5	5	5	5	5					
10 <sup>-2</sup>	23			5	5	5					
10 <sup>-3</sup>	47				14	7					
10 <sup>-4</sup>	78					42					
10 <sup>-5</sup>											
10 <sup>-6</sup>											
10 <sup>-7</sup>											
10 <sup>-8</sup>											



L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 63 bar				Q <sub>Smin/L</sub> [MPa]				
		Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa					
10 <sup>0</sup>	10	10	10	10	10					
10 <sup>-1</sup>	15	10	10	10	10					
10 <sup>-2</sup>	33		17	10	10					
10 <sup>-3</sup>	64				20					
10 <sup>-4</sup>										
10 <sup>-5</sup>										
10 <sup>-6</sup>										
10 <sup>-7</sup>										
10 <sup>-8</sup>										



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

Relaxation ratio $P_{QR}$ for stiffness $C = 500$ 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	0,91	0,92	0,93
PQR at $Q_{Smax}$	1,00 at 220 MPa	0,99 at 200 MPa	0,99 at 180 MPa	0,98 at 180 MPa	0,98 at 180 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]
220	200	180	180	180

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		1,95		1,96		1,96		1,97		1,96
20	553	1,33	487	1,37	581	1,37	574	1,34	527	1,33
30	816	1,24	861	1,28	1023	1,30	932	1,27	957	1,27
40	1219	1,16	1202	1,20	1343	1,21	1156	1,18	1090	1,19
50	1893	1,11	2122	1,16	1796	1,17	2148	1,14	1579	1,14
60	1876	1,08	2257	1,14	3224	1,15	2241	1,12	2501	1,12
80	2656	1,04	2637	1,10	2660	1,10	2997	1,08	2584	1,07
100	3421	1,01	2831	1,06	3177	1,07	2978	1,04	3055	1,04
120	4288	0,99	3375	1,04	3404	1,05	3476	1,02	3570	1,02
140	5674	0,98	4690	1,03	4216	1,03	5039	1,00	4164	1,00
160	5493	0,97	5416	1,01	5047	1,02	5324	0,99	4814	0,99
180	5816	0,95	6317	1,00	5551	1,01	5228	0,98	4953	0,97
200	6085	0,94	7148	0,99						
220	6907	0,93								

### Gasket thickness $e_G$

