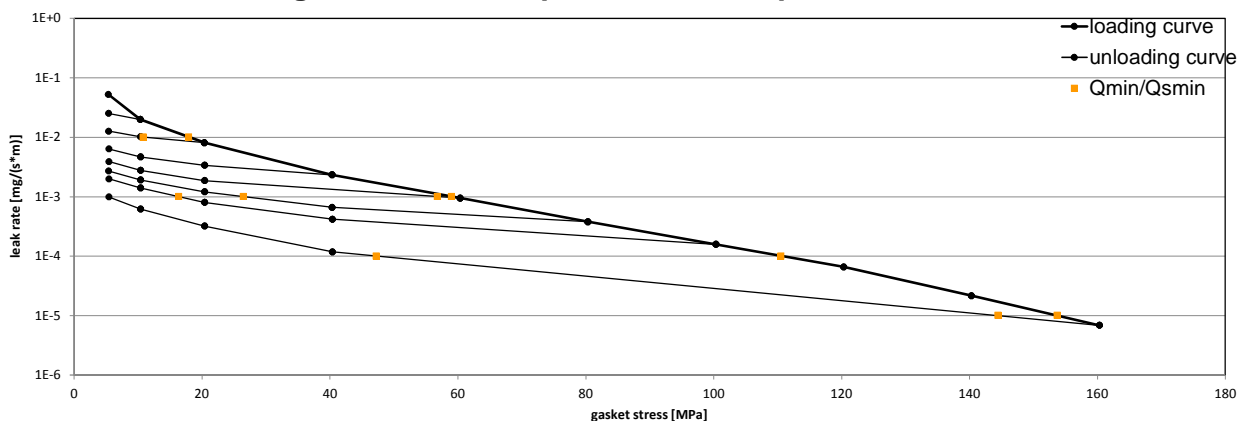


Company Address	Gambit-Lubawka Sp. z o.o., ul. Wojska Polskiego 16, 58-420 Lubawka, Poland
Gasket Type	GAMBITGRAF LUX
Sealing element dimensions [mm]	92 x 49 x 2

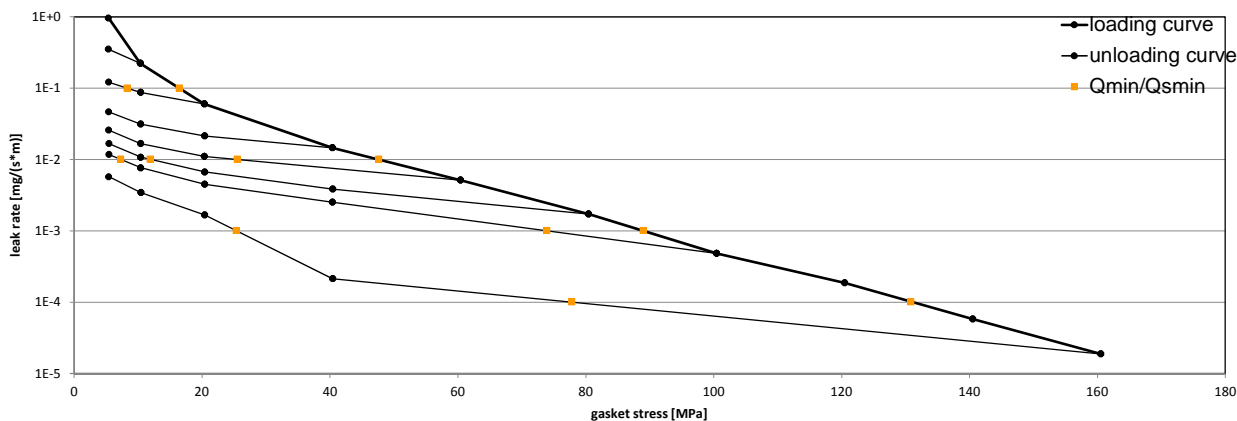
L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 10 bar									
		Q <sub>Smin/L</sub> [MPa]									
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa	Q <sub>A</sub> = 100 MPa	Q <sub>A</sub> = 120 MPa	Q <sub>A</sub> = 140 MPa	Q <sub>A</sub> = 160 MPa	
10 <sup>0</sup>	5	5	5	5	5	5	5			5	
10 <sup>-1</sup>	5	5	5	5	5	5	5			5	
10 <sup>-2</sup>	18		11	5	5	5	5			5	
10 <sup>-3</sup>	59				57	27	16			5	
10 <sup>-4</sup>	111									47	
10 <sup>-5</sup>	154									144	

### Leakage - ambient temperature / inner pressure = 10 bar



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	Q <sub>A</sub> = 100 MPa	Q <sub>A</sub> = 120 MPa	Q <sub>A</sub> = 140 MPa	Q <sub>A</sub> = 160 MPa	
10 <sup>0</sup>	5	5	5	5	5	5	5			5	
10 <sup>-1</sup>	16		8	5	5	5	5			5	
10 <sup>-2</sup>	48				26	12	7			5	
10 <sup>-3</sup>	89						74			25	
10 <sup>-4</sup>	131									78	

### Leakage - ambient temperature / inner pressure = 40 bar



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

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16.04.2014

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Center of Sealing Technologies, Bürgerkamp 3, 48565 Steinfurt, Germany

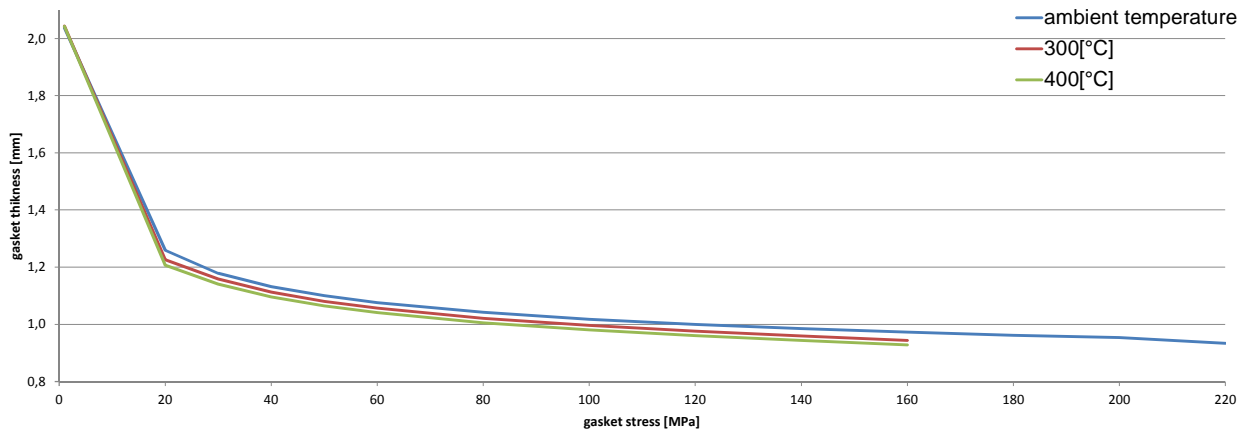
Company Address	Gambit-Lubawka Sp. z o.o., ul. Wojska Polskiego 16, 58-420 Lubawka, Poland
Gasket Type	GAMBITGRAF LUX
Sealing element dimensions [mm]	92 x 49 x 2

Relaxation ratio P <sub>QR</sub> for stiffness C = 500 kN/mm				
Gasket stress [MPa]	ambient temperature	temperature 1 [300 °C]	temperature 2 [400 °C]	
Stress level 1 [30 MPa]	0,99	0,93	0,92	
Stress level 2 [50 MPa]	1,00	0,95	0,95	
PQR at Q <sub>Smax</sub>	1,00 at 220 MPa	0,99 at 160 MPa	0,98 at 160 MPa	

Maximal applicable gasket stress Q <sub>Smax</sub>				
Q <sub>Smax</sub> [MPa]	Q <sub>Smax</sub> [MPa] – temperature 1 [300 °C]	Q <sub>Smax</sub> [MPa] – temperature 2 [400 °C]		
ambient temperature				
220	160	160		

Sekant unloading modulus of the gasket E <sub>G</sub> [MPa] and gasket thickness e <sub>G</sub> [mm]						
Gasket stress [MPa]	ambient temperature		temperature 1 [300 °C]	temperature 2 [400 °C]		
	E <sub>G</sub> [MPa]	e <sub>G</sub> [mm]	E <sub>G</sub> [MPa]	e <sub>G</sub> [mm]	E <sub>G</sub> [MPa]	e <sub>G</sub> [mm]
0		2,201		2,201		2,215
1		2,037		2,043		2,042
20	526	1,259	574	1,226	552	1,207
30	828	1,178	810	1,159	772	1,141
40	1159	1,132	1103	1,113	1041	1,096
50	1488	1,100	1412	1,081	1433	1,065
60	1847	1,076	1721	1,057	1700	1,041
80	2602	1,042	2312	1,021	2347	1,006
100	3346	1,018	3036	0,996	2854	0,980
120	4028	0,999	3582	0,976	3342	0,961
140	4786	0,985	4193	0,959	4049	0,943
160	5520	0,972	4760	0,944	4592	0,928
180	6201	0,961				
200	9490	0,954				
220	14811	0,934				

**Gasket thickness e<sub>G</sub>**



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