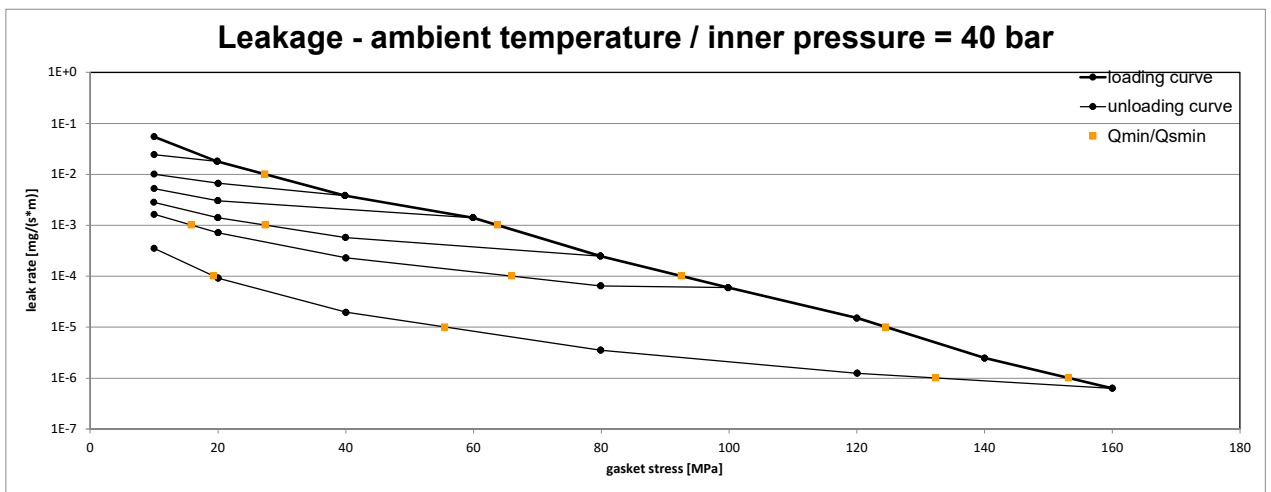
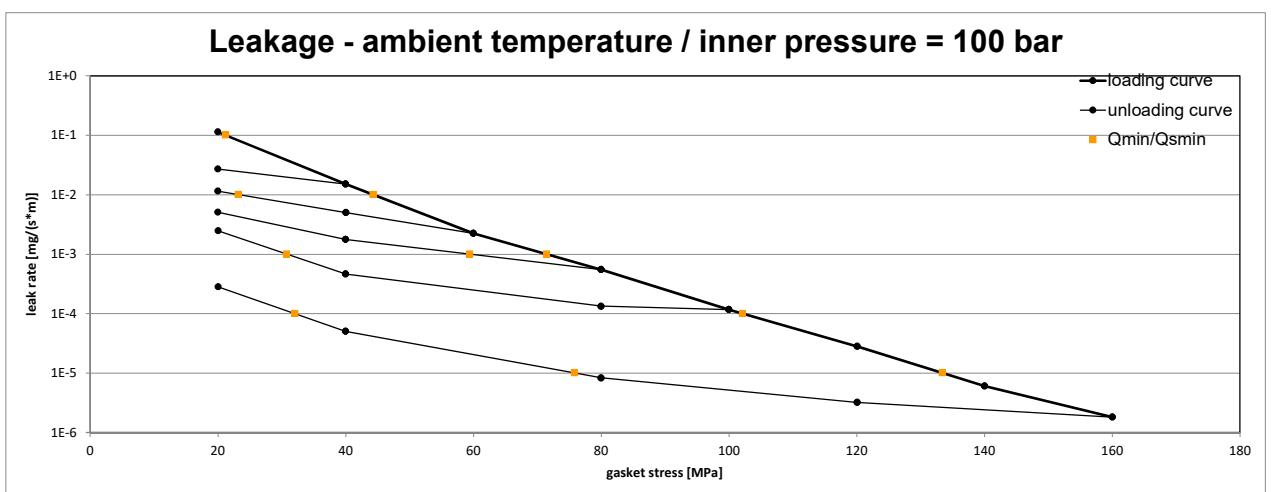


Company Address	Donit Tesnit d.o.o., Cesta komandanta Staneta 38, SI-1215 Medvode	According to DIN EN 13555 2014-07
Gasket Type	Grafiit EM	
Sealing element dimensions [mm]	92 x 49 x 1.5	

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 = 20 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa	Q _A = 120 MPa	Q _A = 140 MPa	Q _A = 160 MPa	
10 ⁰	10	10	10	10	10	10			10	
10 ⁻¹	10	10	10	10	10	10			10	
10 ⁻²	27		10	10	10	10			10	
10 ⁻³	64				27	16			10	
10 ⁻⁴	93					66			19	
10 ⁻⁵	125								56	
10 ⁻⁶	153								132	
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 = 100 bar								
		Q _{Smin/L} [MPa]								
		Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa	Q _A = 120 MPa	Q _A = 140 MPa	Q _A = 160 MPa		
10 ⁰	20	20	20	20	20				20	
10 ⁻¹	21	20	20	20	20				20	
10 ⁻²	44		23	20	20				20	
10 ⁻³	71			59	31				20	
10 ⁻⁴	102								32	
10 ⁻⁵	133								76	
10 ⁻⁶										
10 ⁻⁷										
10 ⁻⁸										



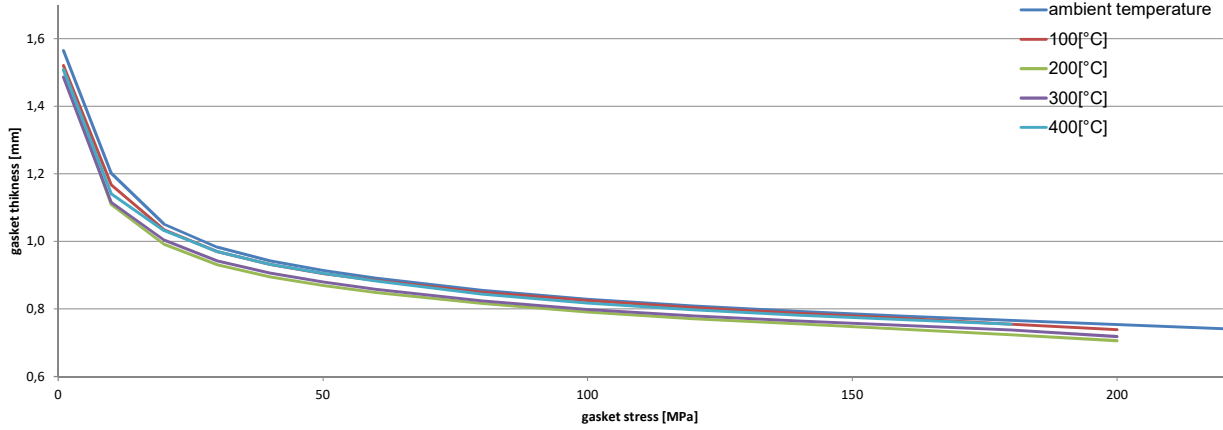
Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 1 Creation date of this sheet: 2019-08-14

Company Address	Donit Tesnit d.o.o., Cesta komandanta Staneta 38, SI-1215 Medvode	According to DIN EN 13555 2014-07
Gasket Type	Grafiit EM	
Sealing element dimensions [mm]	92 x 49 x 1.5	

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm										
Gasket stress	ambient temperature		temperature 1 [100 °C]		temperature 2 [200 °C]		temperature 3 [300 °C]		temperature 4 [400 °C]	
	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]	P_{QR}	Δe_{Gc} [mm]
Stress level 1 [30 MPa]	0,98	0,006	0,94	0,015	0,93	0,018	0,90	0,026	0,88	0,030
Stress level 2 [50 MPa]	0,99	0,006	0,97	0,014	0,96	0,018	0,93	0,028	0,93	0,030
P_{QR} and Δe_{Gc} at maximal applicable gasket stress Q_{Smax}										
P_{QR} at Q_{Smax}	1,00	0,009	0,98	0,026	0,98	0,040	0,97	0,049	0,97	0,049
Q_{Smax}	220 MPa		200 MPa		200 MPa		200 MPa		180 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		1,565		1,521		1,509		1,487		1,509
10	161	1,202	233	1,168	256	1,109	257	1,116	242	1,141
20	426	1,051	460	1,035	491	0,992	495	1,004	498	1,032
30	687	0,983	747	0,970	793	0,931	791	0,942	806	0,970
40	988	0,942	1036	0,931	1095	0,895	1155	0,906	1153	0,932
50	1306	0,914	1360	0,905	1445	0,869	1551	0,880	1535	0,905
60	1585	0,891	1731	0,884	1750	0,848	1916	0,858	1917	0,883
80	2037	0,855	2131	0,850	2317	0,816	2486	0,824	2489	0,844
100	2499	0,829	2689	0,825	2846	0,791	2946	0,798	3049	0,817
120	3056	0,809	3350	0,804	3359	0,771	3509	0,779	3740	0,797
140	3501	0,793	3640	0,787	3990	0,756	4157	0,764	4365	0,782
160	3981	0,779	4055	0,772	4254	0,740	4768	0,751	4820	0,768
180	4479	0,766	4326	0,755	4791	0,723	5279	0,738	5360	0,755
200	4980	0,754	4674	0,739	5222	0,706	5830	0,718		
220	5325	0,742								

Gasket thickness e_G



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