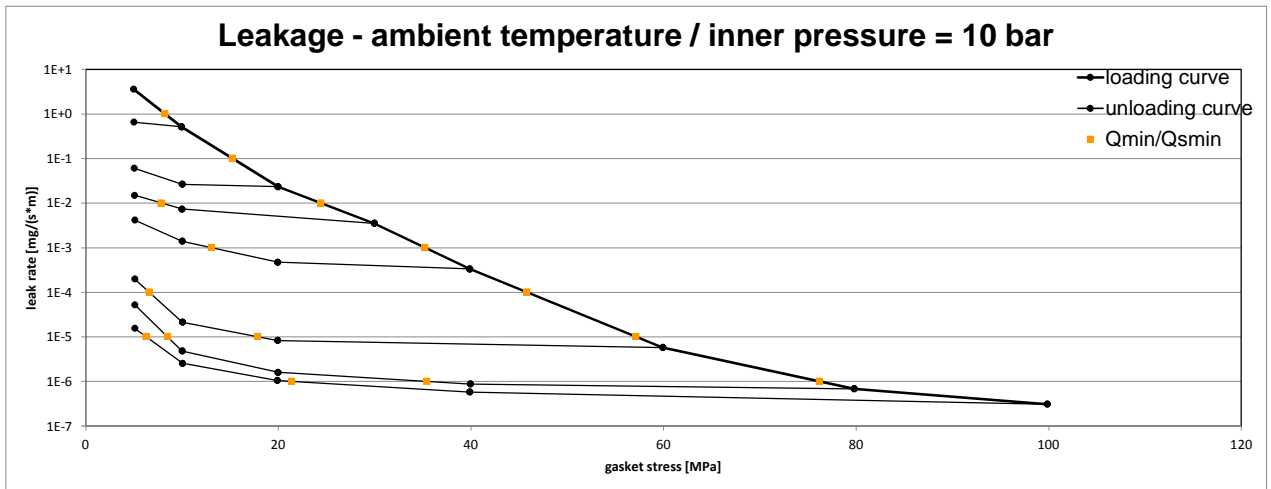
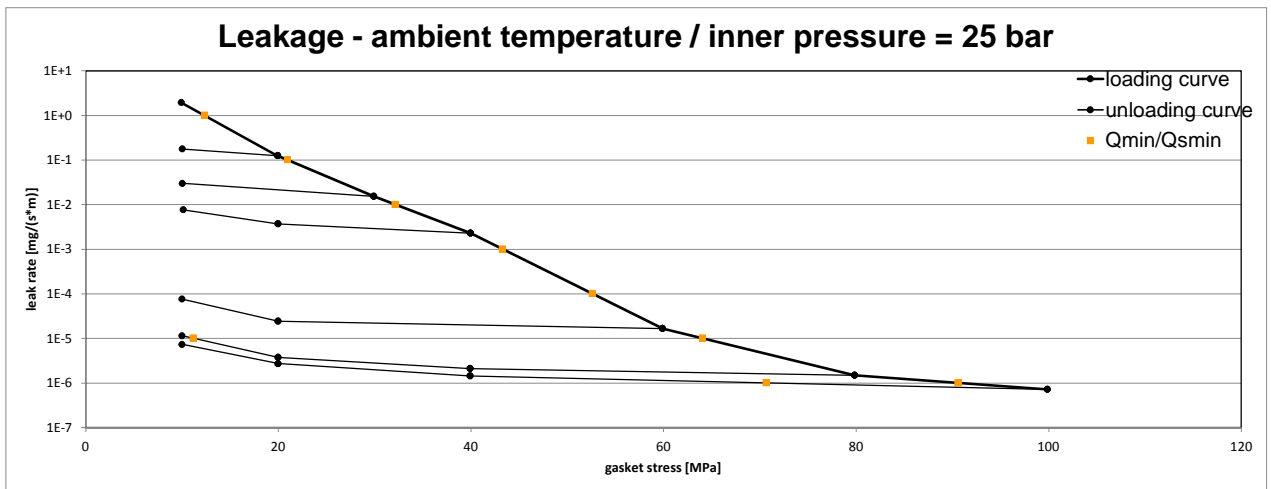


Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany
Gasket Type	KLINGERSIL® C 4430plus
Sealing element dimensions [mm]	92 x 49 x 2

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 = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa	
10 ⁰	8	5	5	5	5	5	5	5	
10 ⁻¹	15		5	5	5	5	5	5	
10 ⁻²	24			8	5	5	5	5	
10 ⁻³	35				13	5	5	5	
10 ⁻⁴	46					7	5	5	
10 ⁻⁵	57					18	9	6	
10 ⁻⁶	76						35	21	
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 = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa	
10 ⁰	12	10	10	10	10	10	10	
10 ⁻¹	21		10	10	10	10	10	
10 ⁻²	32			10	10	10	10	
10 ⁻³	43				10	10	10	
10 ⁻⁴	53				10	10	10	
10 ⁻⁵	64					11	10	
10 ⁻⁶	91						71	
10 ⁻⁷								
10 ⁻⁸								

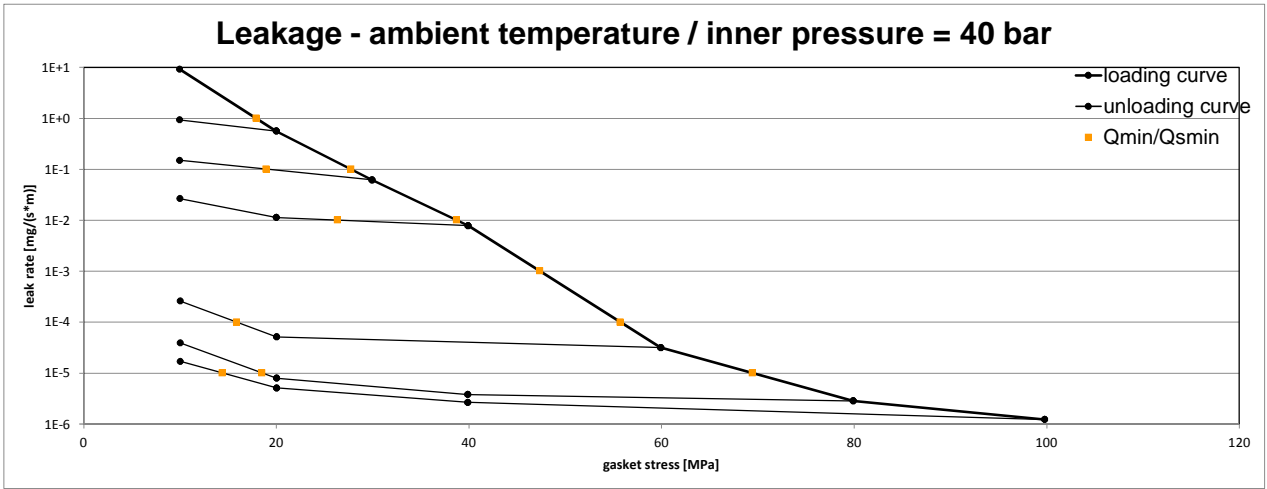


Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 1 Creation date of this sheet: 22.05.2014

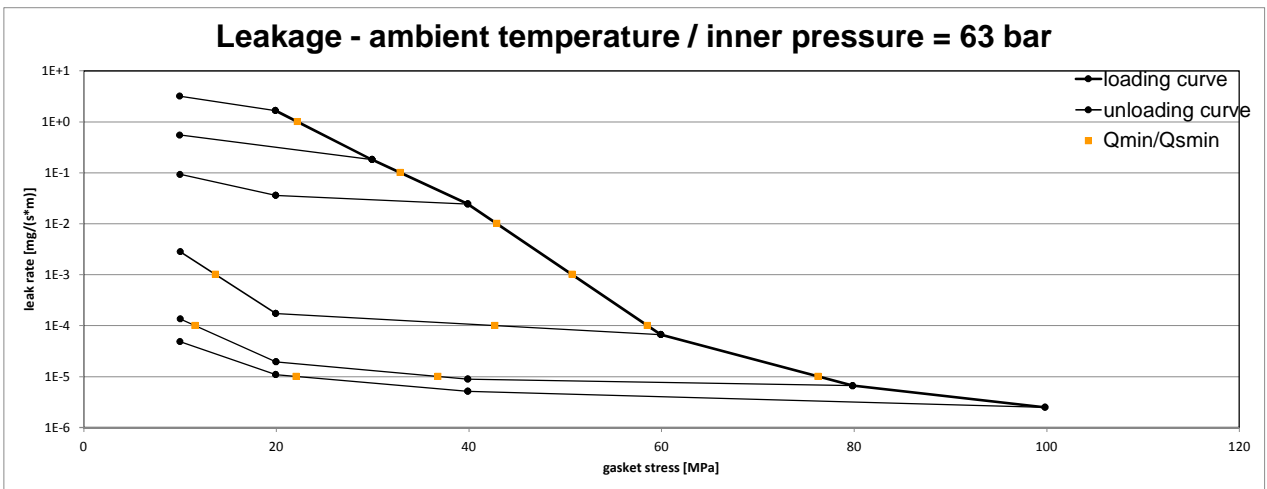


Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany
Gasket Type	KLINGERSIL® C 4430plus
Sealing element dimensions [mm]	92 x 49 x 2

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 = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa				
10 ⁰	18	10	10	10	10	10	10				
10 ⁻¹	28		19	10	10	10	10				
10 ⁻²	39			26	10	10	10				
10 ⁻³	47				10	10	10				
10 ⁻⁴	56				16	10	10				
10 ⁻⁵	69					19	14				
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 = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa				
10 ⁰	22		10	10	20	20	20				
10 ⁻¹	33			10	20	20	20				
10 ⁻²	43				20	20	20				
10 ⁻³	51				14	20	20				
10 ⁻⁴	59				43	12	20				
10 ⁻⁵	76					37	22				
10 ⁻⁶											
10 ⁻⁷											
10 ⁻⁸											



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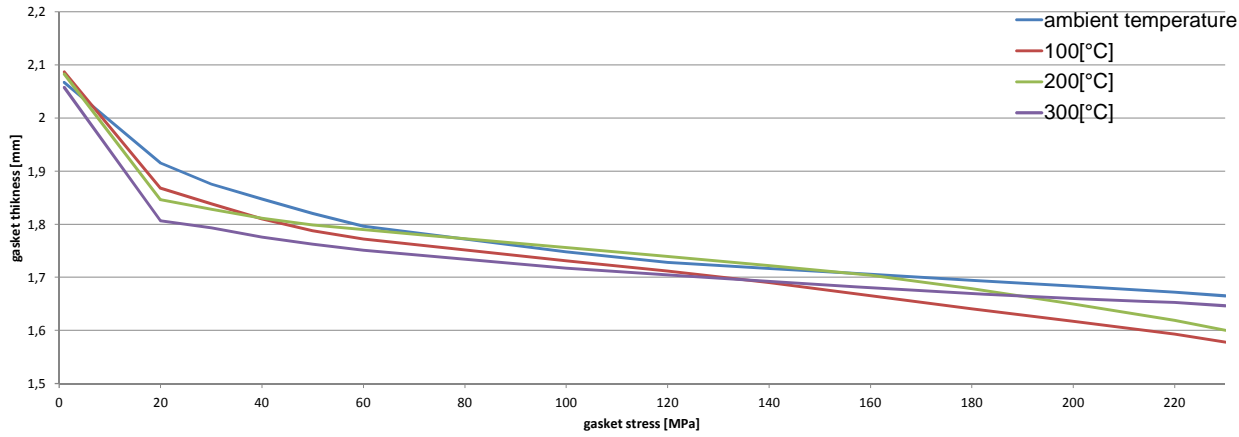
Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany
Gasket Type	KLINGERSIL® C 4430plus
Sealing element dimensions [mm]	92 x 49 x 2

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]	
Stress level 1 [30 MPa]	0,93	0,76	0,72	0,59	
Stress level 2 [50 MPa]	0,95	0,86	0,86	0,72	
PQR at Q_{Smax}	0,98 at 230 MPa	0,93 at 230 MPa	0,87 at 230 MPa	0,82 at 230 MPa	

Maximal applicable gasket stress Q_{Smax}				
Q_{Smax} [MPa]	Q_{Smax} [MPa] – temperature 1	Q_{Smax} [MPa] – temperature 2	Q_{Smax} [MPa] – temperature 3	
	ambient temperature	[100 °C]	[200 °C]	[300 °C]
230	230	230	230	

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]		
	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	
1		2,067		2,087		2,083		2,058	
20	1377	1,916	1231	1,868	2399	1,846	2906	1,807	
30	1923	1,876	1937	1,838	2513	1,828	4198	1,793	
40	2815	1,847	2204	1,810	2715	1,811	3416	1,775	
50	2938	1,820	2801	1,788	3279	1,799	4323	1,762	
60	3543	1,796	3315	1,772	4706	1,789	6029	1,751	
80	7062	1,772	4905	1,752	4935	1,773	7536	1,734	
100	6642	1,748	6206	1,731	5351	1,756	6756	1,717	
120	6572	1,728	8047	1,712	5866	1,739	8790	1,704	
140	8927	1,716	7681	1,690	6526	1,722	9942	1,692	
160	11166	1,706	7558	1,666	7915	1,704	9569	1,680	
180	10560	1,695	7994	1,641	7348	1,679	8859	1,669	
200	9652	1,683	8144	1,617	7523	1,650	9444	1,661	
220	8664	1,672	8454	1,593	7320	1,619	9971	1,653	
230	8467	1,665	8489	1,578	7398	1,600	10157	1,647	

Gasket thickness e_G



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