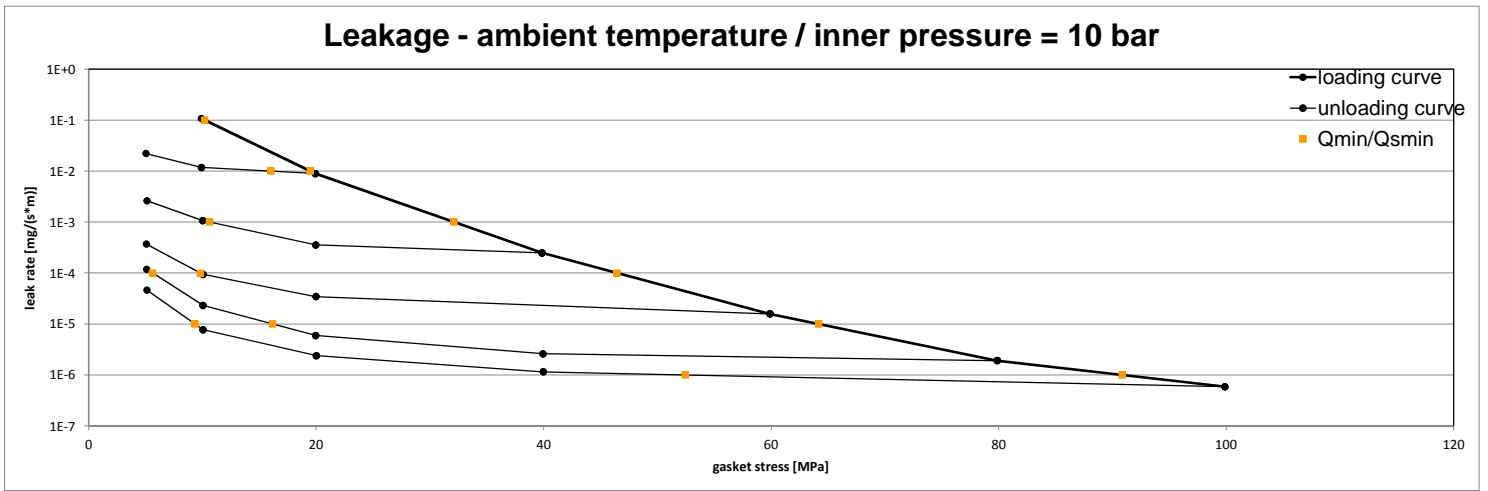
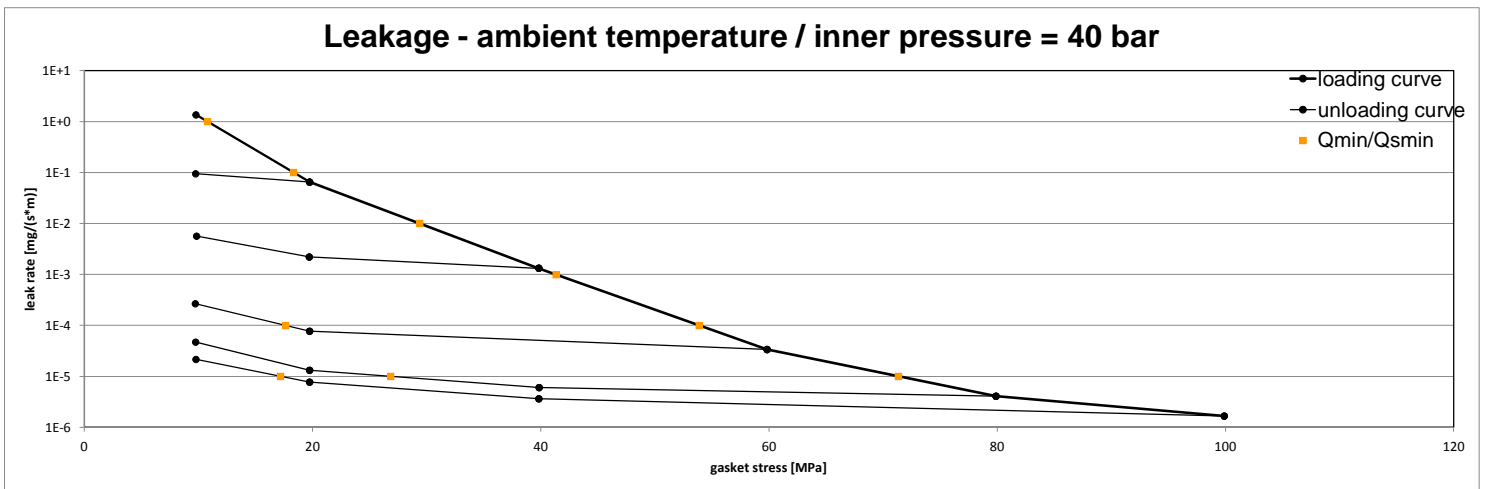


Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany
Gasket Type	KLINGERSIL® C 4430
Sealing element dimensions [mm]	92 x 49 x 2

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 = 20 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa							
10 ⁰	10	5	5	5	5	5							
10 ⁻¹	10	5	5	5	5	5							
10 ⁻²	19	16	5	5	5	5							
10 ⁻³	32		11	5	5	5							
10 ⁻⁴	46			10	6	5							
10 ⁻⁵	64				16	9							
10 ⁻⁶	91					52							
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 = 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							
10 ⁰	11	10	10	10	10	10							
10 ⁻¹	18	10	10	10	10	10							
10 ⁻²	29		10	10	10	10							
10 ⁻³	41			10	10	10							
10 ⁻⁴	54			18	10	10							
10 ⁻⁵	71				27	17							
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: 03.07.2012

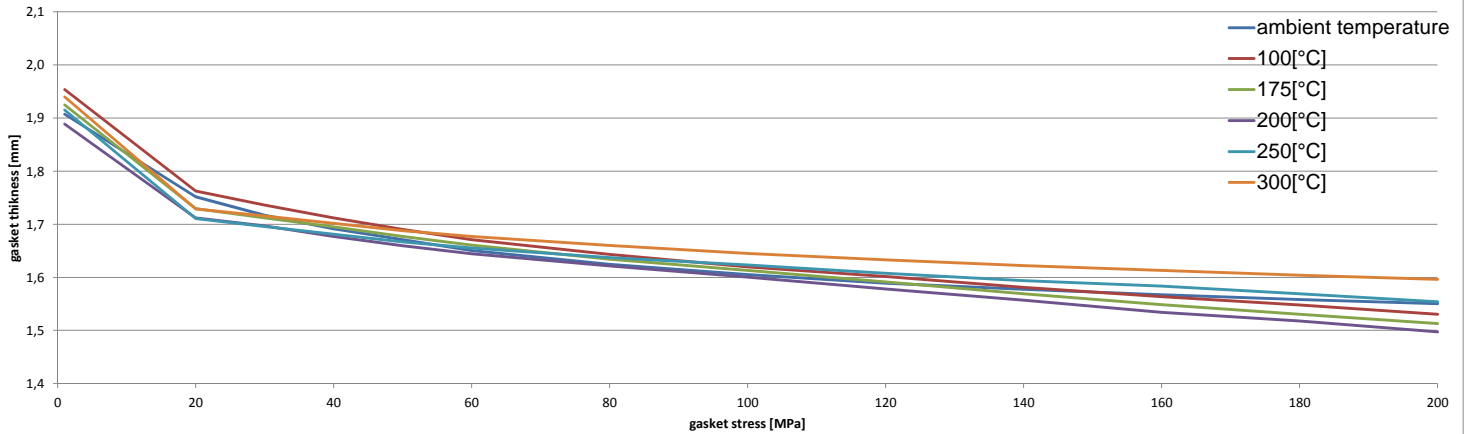
Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany
Gasket Type	KLINGERSIL® C 4430
Sealing element dimensions [mm]	92 x 49 x 2

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm						
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [175 °C]	temperature 3 [200 °C]	temperature 4 [250 °C]	temperature 5 [300 °C]
Stress level 1 [30 MPa]	0,96	0,89	0,85	0,82	0,79	0,66
Stress level 2 [50 MPa]	0,96	0,93	0,92	0,91	0,86	0,79
PQR at Q_{Smax}	0,99 at 200 MPa	0,94 at 200 MPa	0,91 at 200 MPa	0,90 at 200 MPa	0,88 at 200 MPa	0,86 at 200 MPa

Maximal applicable gasket stress Q_{Smax}					
Q_{Smax} [MPa] ambient temperature	Q_{Smax} [MPa] – temperature 1 [100 °C]	Q_{Smax} [MPa] – temperature 2 [175 °C]	Q_{Smax} [MPa] – temperature 3 [200 °C]	Q_{Smax} [MPa] – temperature 4 [250 °C]	Q_{Smax} [MPa] – temperature 5 [300 °C]
200	200	200	200	200	200

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 [175 °C]		temperature 3 [200 °C]		temperature 4 [250 °C]		temperature 5 [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]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]
0												
1		1,907		1,954		1,925		1,889		1,915		1,940
20	1210	1,752	1436	1,762	1983	1,729	1989	1,712	2273	1,711	6809	1,728
30	1768	1,716	1790	1,736	2257	1,712	3682	1,697	3298	1,696	5337	1,715
40	3015	1,691	2725	1,712	3498	1,695	2746	1,677	5241	1,681	5347	1,702
50	4168	1,671	3265	1,690	3724	1,677	3906	1,659	4057	1,667	4934	1,688
60	4668	1,651	3988	1,671	3836	1,660	5728	1,644	7982	1,655	7451	1,677
80	11940	1,625	4984	1,643	4546	1,634	7336	1,622	7706	1,637	6117	1,660
100	13194	1,605	5643	1,620	5288	1,613	9280	1,600	12756	1,623	6078	1,645
120	10754	1,589	6691	1,601	6042	1,591	7341	1,578	11641	1,608	7071	1,633
140	14966	1,577	6634	1,581	5920	1,569	8404	1,557	10228	1,594	8684	1,622
160	14964	1,567	7027	1,564	6502	1,548	7974	1,534	14201	1,583	9642	1,613
180	14279	1,558	9764	1,548	7772	1,531	10432	1,518	10645	1,569	9271	1,604
200	14791	1,550	9764	1,530	9439	1,513	9702	1,497	9275	1,554	9831	1,596

Gasket thickness e_G



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