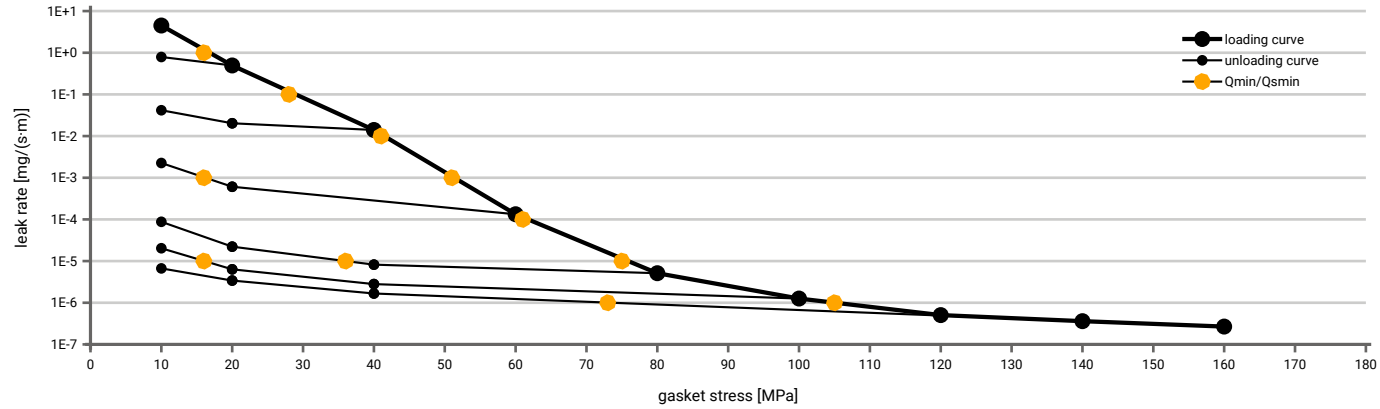
Manufacturer address	Kempchen Dichtungstechnik GmbH, Im Waldteich 21, 46147 Oberhausen, DE	According to **DIN EN 13555 2005-2**
Product name	F1 Klinger Sil C4400 with inner eyelet	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		Q_A = 10 [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]
1E+1	10		10	10	10	10	10			10
1E-0	17		10	10	10	10	10			10
1E-1	29			10	10	10	10			10
1E-2	41				10	10	10			10
1E-3	51				16	10	10			10
1E-4	62					10	10			10
1E-5	76					36	16			10
1E-6	105									74
1E-7										
1E-8										

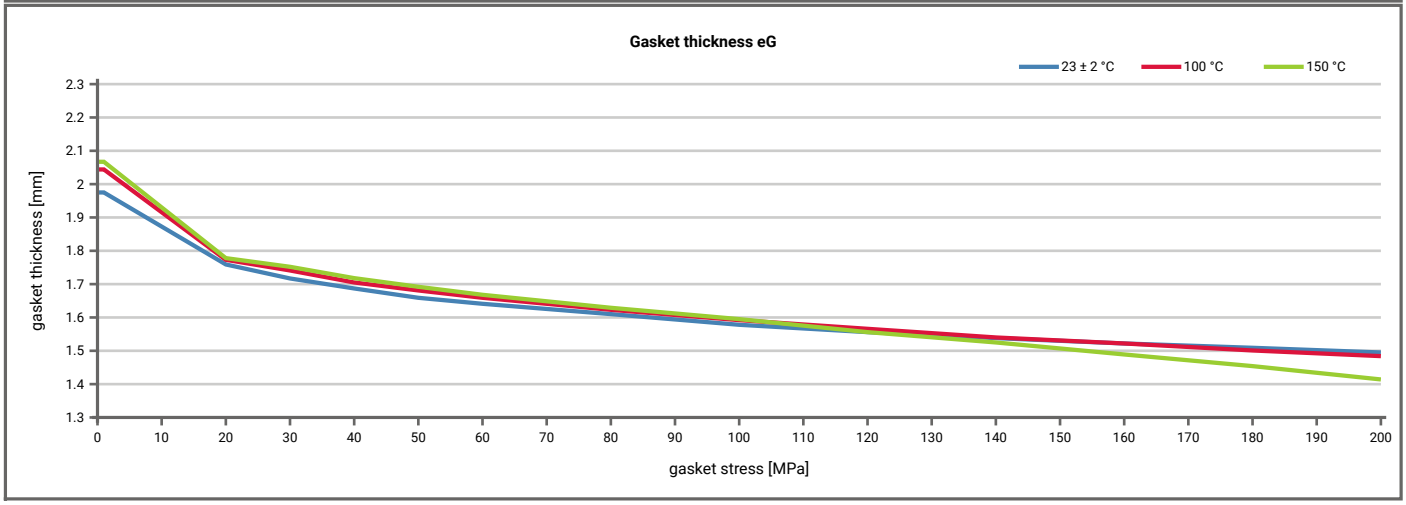


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **3**	Creation date of this sheet: **2014-06-06**

Manufacturer address	Kempchen Dichtungstechnik GmbH, Im Waldteich 21, 46147 Oberhausen, DE	According to **DIN EN 13555 2005-2**
Product name	F1 Klinger Sil C4400 with inner eyelet	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Relaxation ratio P_{QR} for stiffness C = 500 [kN/mm]										
Gasket stress	**23 ± 2 °C**		**Temperature 1 [100 °C]**		**Temperature 2 [150 °C]**					
	P_{QR}	**Δe_{Gc} [µm]**	**P_{QR}**	**Δe_{Gc} [µm]**	**P_{QR}**	**Δe_{Gc} [µm]**	**P_{QR}**	**Δe_{Gc} [µm]**	**P_{QR}**	**Δe_{Gc} [µm]**
Stress level 1 [50 MPa]	0.93	29	0.87	57	0.84	69				
Stress level 2 [120 MPa]	0.98	20	0.93	70	0.90	101				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.98	35	0.95	88	0.90	185				
Q_{smax}	210 MPa		210 MPa		210 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	**23 ± 2 °C**		**Temperature 1 [100 °C]**		**Temperature 2 [150 °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	0	1.975	0	2.044	0	2.067				
1	0	1.975	0	2.044	0	2.067				
20	1063	1.759	983	1.773	1628	1.778				
30	1167	1.717	1471	1.741	1526	1.752				
40	1874	1.687	1656	1.705	1961	1.718				
50	1880	1.659	2284	1.681	2209	1.692				
60	2711	1.641	2675	1.659	2541	1.668				
80	3309	1.610	2987	1.623	2762	1.629				
100	3152	1.578	3054	1.592	3679	1.595				
120	3896	1.556	3584	1.566	3195	1.556				
140	4171	1.538	3383	1.540	3749	1.525				
160	4281	1.522	4103	1.522	3706	1.489				
180	4479	1.509	4264	1.501	3776	1.454				
200	4504	1.495	4316	1.484	4062	1.414				



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