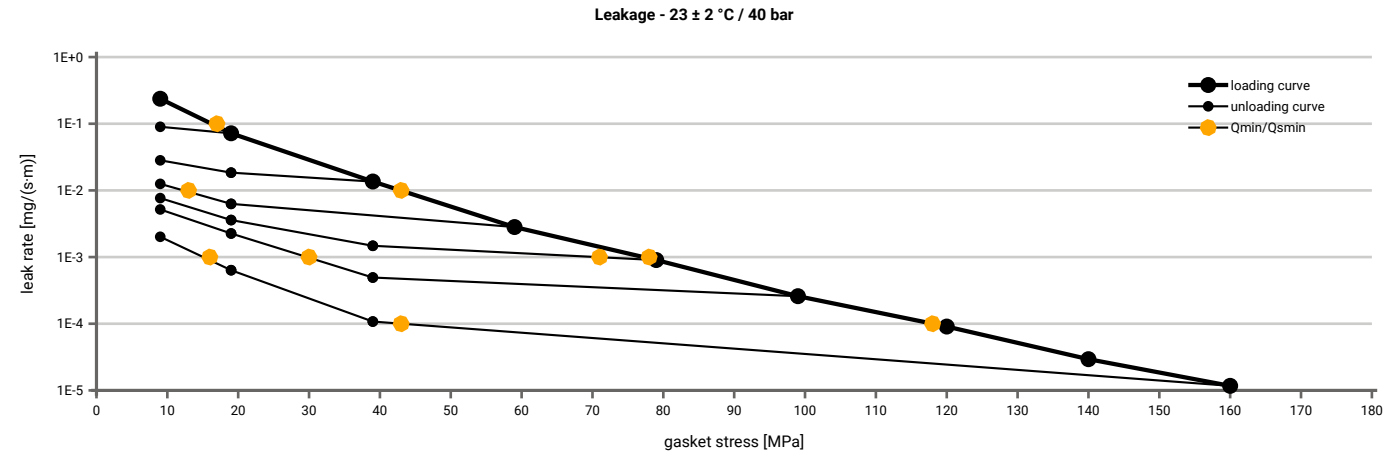
Manufacturer address	KLINGER Kempchen GmbH, Im Waldteich 21, 46147 Oberhausen, DE	According to
Product name	RivaTherm-Super F1 RS2S110I with inner eyelet	**DIN EN 13555**
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	**2005-2**

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-0	10		10	10	10	10	10			10
1E-1	17		10	10	10	10	10			10
1E-2	44				13	10	10			10
1E-3	78					71	31			16
1E-4	118									44
1E-5										
1E-6										
1E-7										



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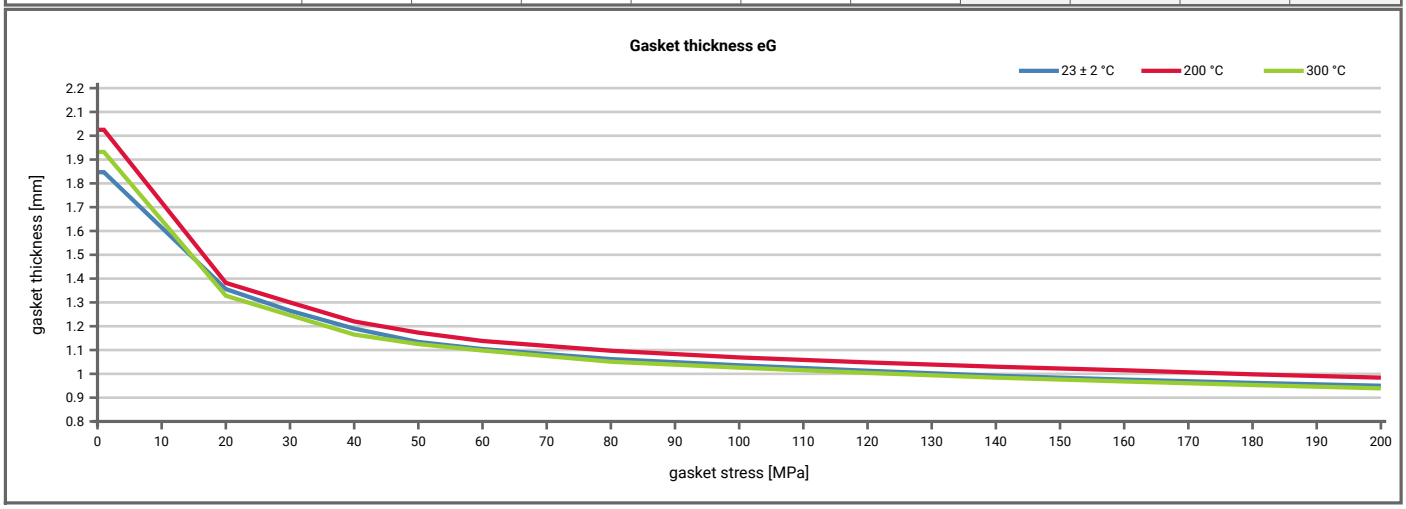
Relaxation ratio P_{QR} for stiffness *C* = 500 [kN/mm]										
Gasket stress	**23 ± 2 °C**		**Temperature 1 [200 °C]**		**Temperature 2 [300 °C]**					
	P_{QR}	**Δe_{Gc} [µm]**	**P_{QR}**	**Δe_{Gc} [µm]**	**P_{QR}**	**Δe_{Gc} [µm]**	**P_{QR}**	**Δe_{Gc} [µm]**	**P_{QR}**	**Δe_{Gc} [µm]**
Stress level 1 [50 MPa]	0.99	4	0.95	23	0.95	21				
Stress level 2 [120 MPa]	1.00	5	0.98	20	0.98	25				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	1.00	0	0.99	18	0.98	35				
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 [200 °C]**		**Temperature 2 [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]**
0	0	1.847	0	2.025	0	1.932				
1	0	1.847	0	2.025	0	1.932				
20	439	1.356	510	1.382	607	1.328				
30	781	1.265	764	1.300	687	1.246				
40	979	1.190	1136	1.220	1156	1.165				
50	1181	1.134	1327	1.173	1422	1.125				
60	1637	1.104	1322	1.138	1689	1.098				
80	1955	1.062	2101	1.097	1940	1.051				
100	2883	1.036	2658	1.069	2855	1.026				
120	3113	1.013	3500	1.048	3158	1.004				
140	3039	0.992	3739	1.030	2981	0.984				
160	3310	0.976	3859	1.015	3097	0.968				
180	3596	0.962	3127	0.998	3227	0.953				
200	3909	0.950	3264	0.984	3494	0.939				



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **3**	Creation date of this sheet: **2025-06-13**