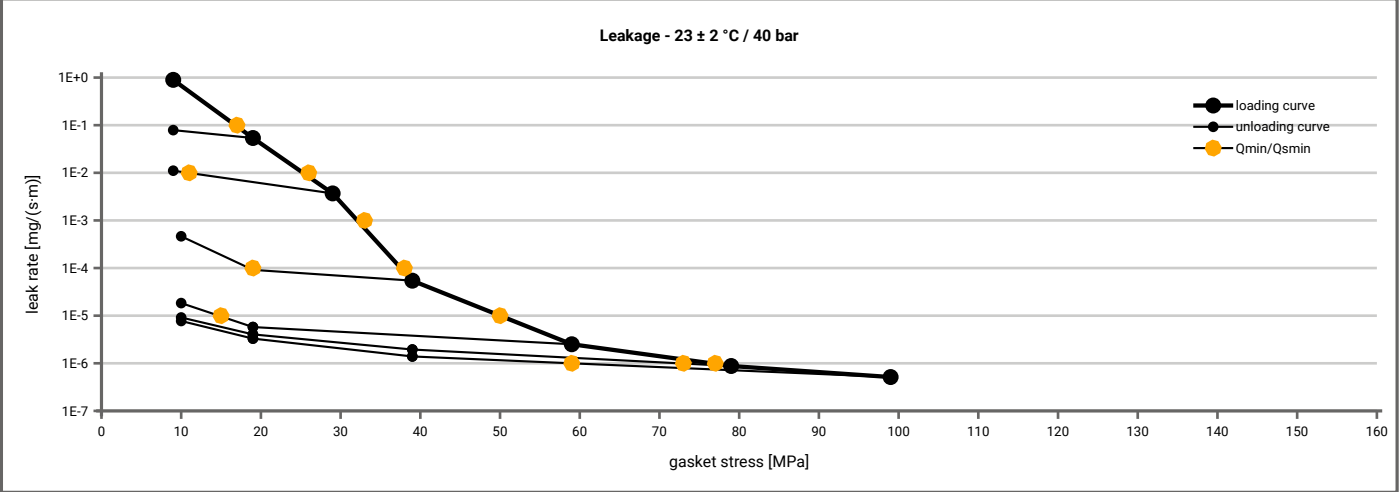


Manufacturer address	KLINGER GmbH, Richard Klinger Str. 37, 65510 Idstein, DE	According to DIN EN 13555 2014-7
Product name	KLINGER® Compensil	
Product dimensions	92 x 48 x 2 mm (DIN EN 1514-1 1997-8)	

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]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]
1E-0	10		10	10	10	10	10	10
1E-1	18		10	10	10	10	10	10
1E-2	26			12	10	10	10	10
1E-3	33				10	10	10	10
1E-4	38				19	10	10	10
1E-5	51					15	10	10
1E-6	77						73	60
1E-7								
1E-8								



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Relaxation ratio P _{QR} for stiffness C = 500 [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [200 °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 [20 MPa]	0.94	11	0.87	23	0.84	28				
Stress level 2 [40 MPa]	0.97	10	0.91	32	0.82	62				
P _{QR} and Δe _{Gc} at maximum gasket stress to be applied Q _{smax}										
P _{QR} at Q _{smax}	0.98	39	0.89	226	0.74	267				
Q _{smax}	230 MPa		230 MPa		120 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 [200 °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	2.000	0	2.000	0	2.000				
1	0	1.913	0	1.925	0	1.918				
20	838	1.667	1524	1.658	1611	1.655				
30	1434	1.632	2197	1.640	1944	1.631				
40	2105	1.609	2623	1.619	2120	1.598				
50	2970	1.594	2930	1.596	2242	1.558				
60	3981	1.581	3191	1.570	2427	1.513				
80	3751	1.555	3445	1.520	2651	1.414				
100	4658	1.534	3766	1.473	2890	1.329				
120	5209	1.516	3961	1.427	3078	1.238				
140	5111	1.498	4270	1.386						
160	5206	1.482	4388	1.347						
180	5592	1.470	4493	1.314						
200	5822	1.458	4646	1.284						
220	6181	1.445	4695	1.258						
230	6027	1.436	4556	1.239						

