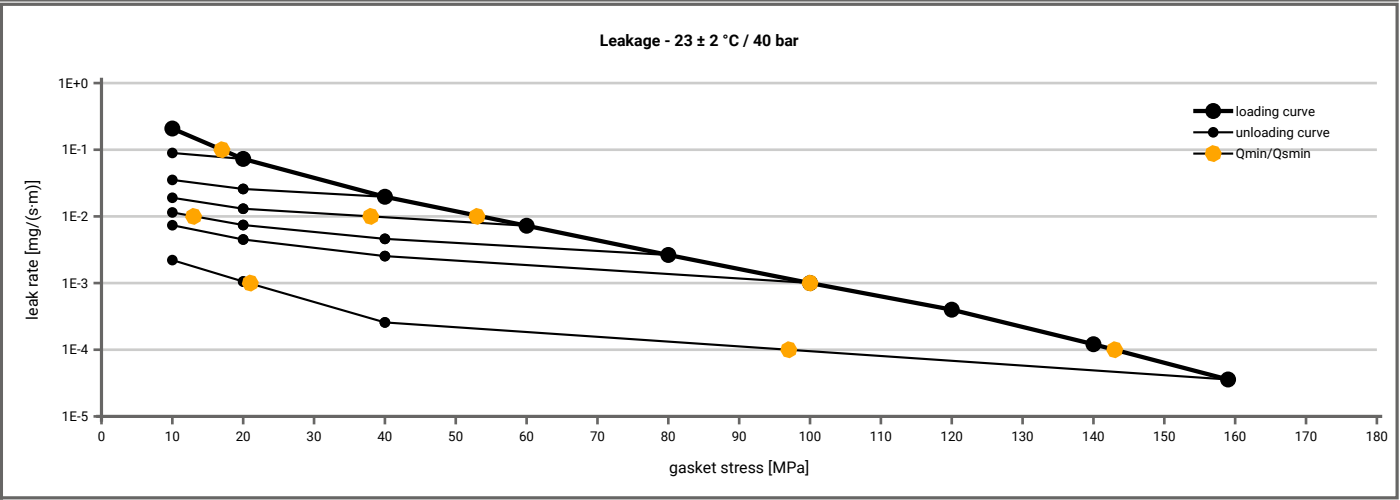


Manufacturer address	KLINGER Kempchen GmbH, Im Waldteich 21, 46147 Oberhausen, DE	According to DIN EN 13555 2005-2
Product name	A1 RS2S110I	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

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-0	10		10	10	10	10	10			10
1E-1	17		10	10	10	10	10			10
1E-2	54				38	13	10			10
1E-3	100									21
1E-4	143									97
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	0.96	19	0.93	29				
Stress level 2 [120 MPa]	0.99	10	0.98	20	0.97	30				
P _{QR} and Δe _{Gc} at maximum gasket stress to be applied (Q _{smax})										
P _{QR} at Q _{smax}	0.99	18	0.99	28	0.98	37				
Q _{smax}	220 MPa		220 MPa		220 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	2.078	0	2.103	0	2.094				
1	0	2.078	0	2.103	0	2.094				
20	442	1.372	584	1.360	642	1.329				
30	641	1.265	750	1.272	911	1.247				
40	1018	1.206	1210	1.220	1388	1.200				
50	1200	1.168	1047	1.178	1070	1.157				
60	1792	1.142	1484	1.149	1484	1.129				
80	2184	1.097	2592	1.111	2615	1.091				
100	2501	1.062	2142	1.076	2134	1.055				
120	3186	1.039	2784	1.052	2956	1.032				
140	3895	1.022	3216	1.032	3645	1.014				
160	4207	1.007	3342	1.014	3663	0.998				
180	4689	0.995	4154	1.001	3960	0.982				
200	5260	0.983	4259	0.989	3779	0.966				
220	4974	0.971	4116	0.973						

