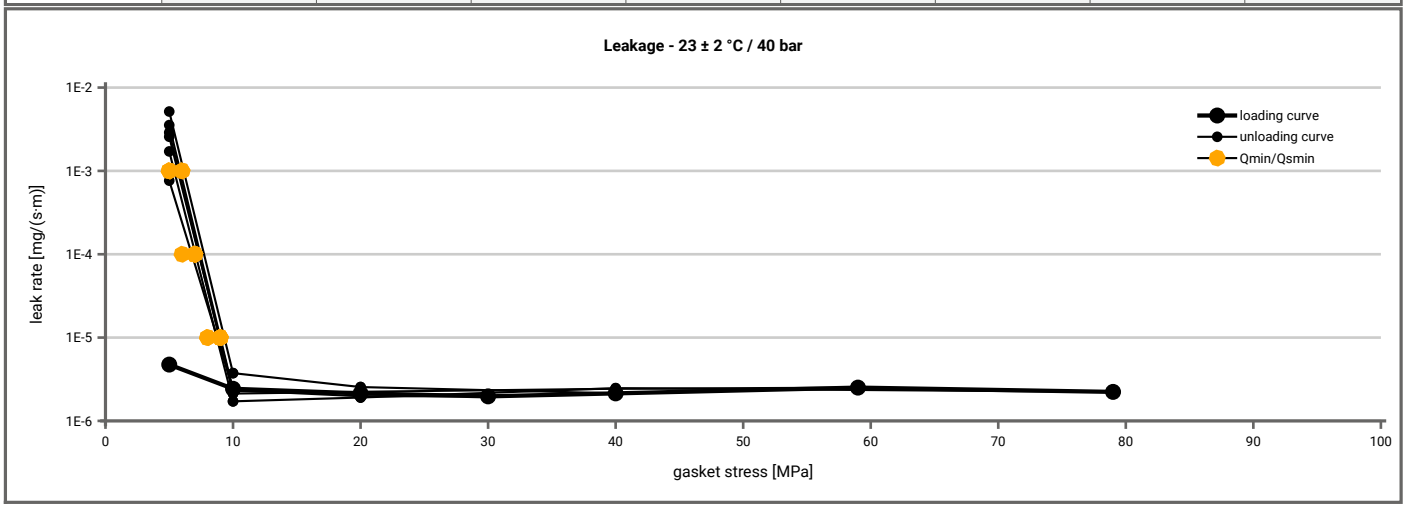
Manufacturer address	KLINGER GmbH, Richard Klinger Str. 37, 65510 Idstein, DE	According to **DIN EN 13555 2014-7**
Product name	KGS G 2 NBR (compressed area 66 x 49)	
Product dimensions	92 x 49 x 3 mm (DIN EN 1514-1 1997-8)	

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 = 5 [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]
1E-0	5		5	5	5	5	5	5
1E-1	5		5	5	5	5	5	5
1E-2	5		5	5	5	5	5	5
1E-3	5		5	6	6	6	6	6
1E-4	5		7	7	8	8	7	7
1E-5	5		9	9	9	9	9	9
1E-6								
1E-7								
1E-8								

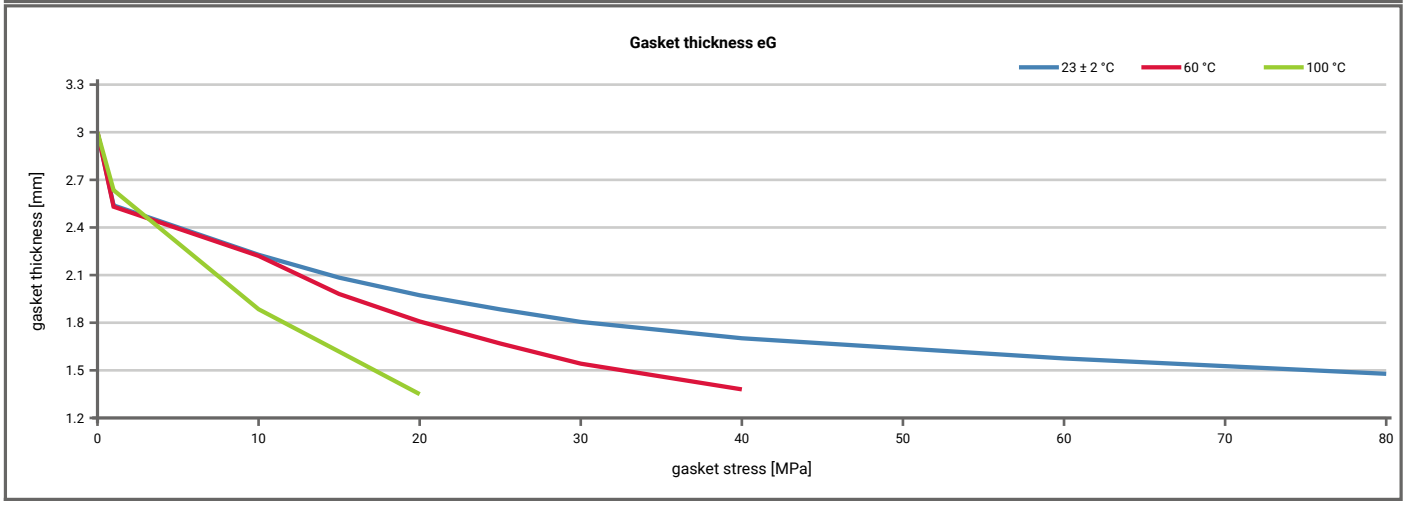


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **1**	Creation date of this sheet: **2018-11-21**

Manufacturer address	KLINGER GmbH, Richard Klinger Str. 37, 65510 Idstein, DE	According to
Product name	KGS G 2 NBR (compressed area 66 x 49)	**DIN EN 13555**
Product dimensions	92 x 49 x 3 mm (DIN EN 1514-1 1997-8)	**2014-7**

Relaxation ratio P_{QR} for stiffness C = 500 [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [60 °C]		Temperature 2 [100 °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 [10 MPa]	0.90	3	0.70	9	0.56	14				
Stress level 2 [15 MPa]	0.77	11	0.61	18	0.54	21				
Stress level 3 [30 MPa]	0.84	15								
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.87	33	0.44	69	0.47	33				
Q_{smax}	80 MPa		40 MPa		20 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [60 °C]		Temperature 2 [100 °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	3.000	0	3.000	0	3.000				
1	0	2.539	0	2.531	0	2.635				
10	143	2.228	129	2.221	158	1.885				
15	252	2.084	251	1.981	449	1.618				
20	380	1.973	387	1.808	449	1.350				
25	530	1.884	543	1.669						
30	712	1.805	705	1.542						
40	1118	1.702	1011	1.380						
60	1972	1.575								
80	2720	1.478								



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