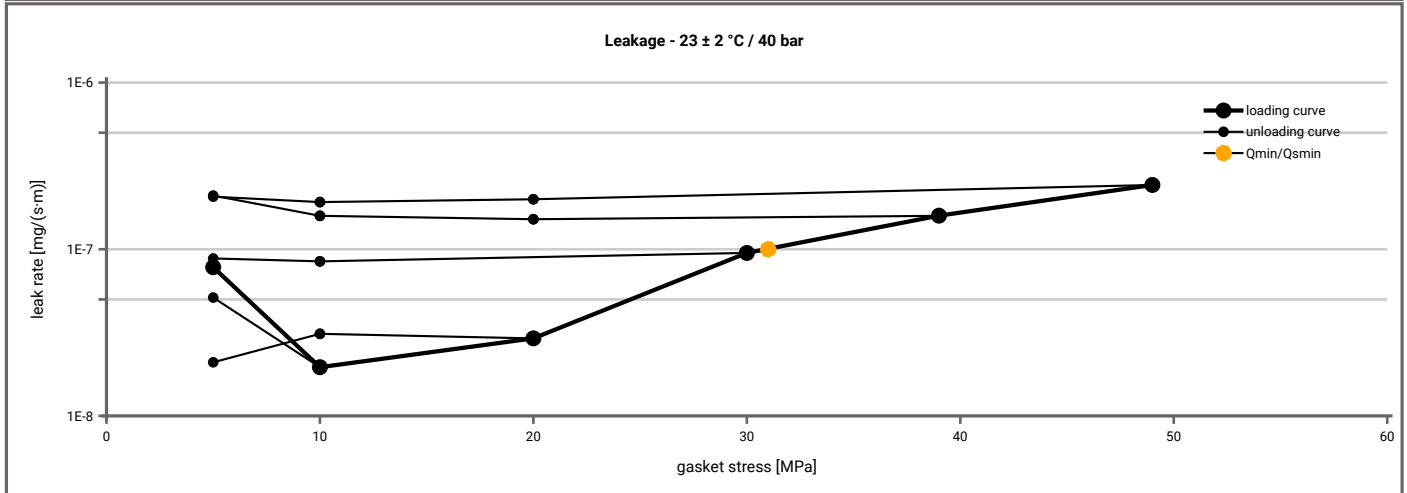


Manufacturer address	KLINGER GmbH, Richard Klinger Str. 37, 65510 Idstein, DE	According to DIN EN 13555 2005-2
Product name	KGS/NBR	
Product dimensions	92 x 49 x 4 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °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]	$Q_A = 50$ [MPa]
1E-0	5		5	5	5	5	5
1E-1	5		5	5	5	5	5
1E-2	5		5	5	5	5	5
1E-3	5		5	5	5	5	5
1E-4	5		5	5	5	5	5
1E-5	5		5	5	5	5	5
1E-6	5		5	5	5	5	5
1E-7	31		5	5	5		
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]							
	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]			0.47	44						
Stress level 2 [15 MPa]	0.85	20	0.38	78						
Stress level 3 [30 MPa]	0.81	48								
P _{QR} and Δe _{Gc} at maximum gasket stress to be applied Q _{smax}										
P_{QR} at Q_{smax}	0.80	84	0.40	102						
Q_{smax}	50 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 [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	4.000	0	4.000						
1		3.562	0	3.609						
10	138	2.642	139	2.227						
20	430	2.314	444	1.847						
30	885	2.127								
40	1219	2.025								
50	1679	1.938								

