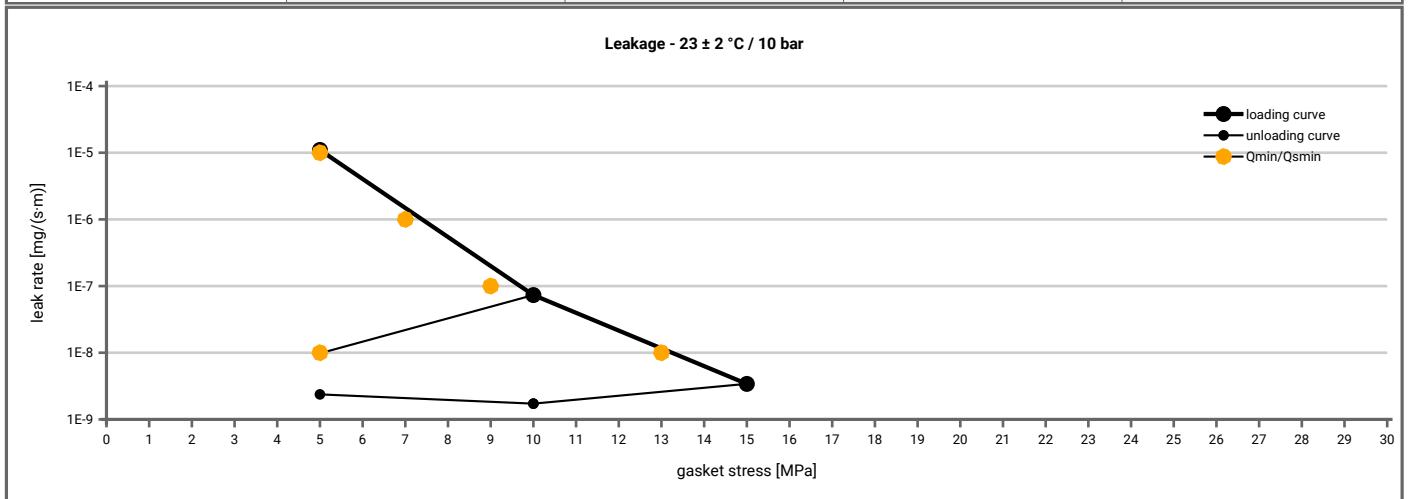


Manufacturer address	KLINGER Kempchen GmbH, Im Waldteich 21, 46147 Oberhausen, DE	According to DIN EN 13555 2005-2
Product name	rubber-steel gasket profile WG (EPDM)	
Product dimensions	92 x 49 x 3.95 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ 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]	$Q_A = 15$ [MPa]
1E-0	5		5	5
1E-1	5		5	5
1E-2	5		5	5
1E-3	5		5	5
1E-4	5		5	5
1E-5	5		5	5
1E-6	8		5	5
1E-7	10		5	5
1E-8	13		5	5
1E-9				



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Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [50 °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 [5 MPa]	0.84	7	0.85	7	0.74	11				
Stress level 2 [10 MPa]	0.84	14	0.81	16	0.36	54				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.84	20	0.82	23	0.59	52				
Q_{smax}	15 MPa		15 MPa		15 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [50 °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	2.888	0	2.795	0	2.782				
1	0	2.888	0	2.795	0	2.782				
2	467	2.796	828	2.694	225	2.704				
5	336	2.662	226	2.578	146	2.468				
10	372	2.516	364	2.442	288	2.144				
15	730	2.427	655	2.307	688	1.911				

