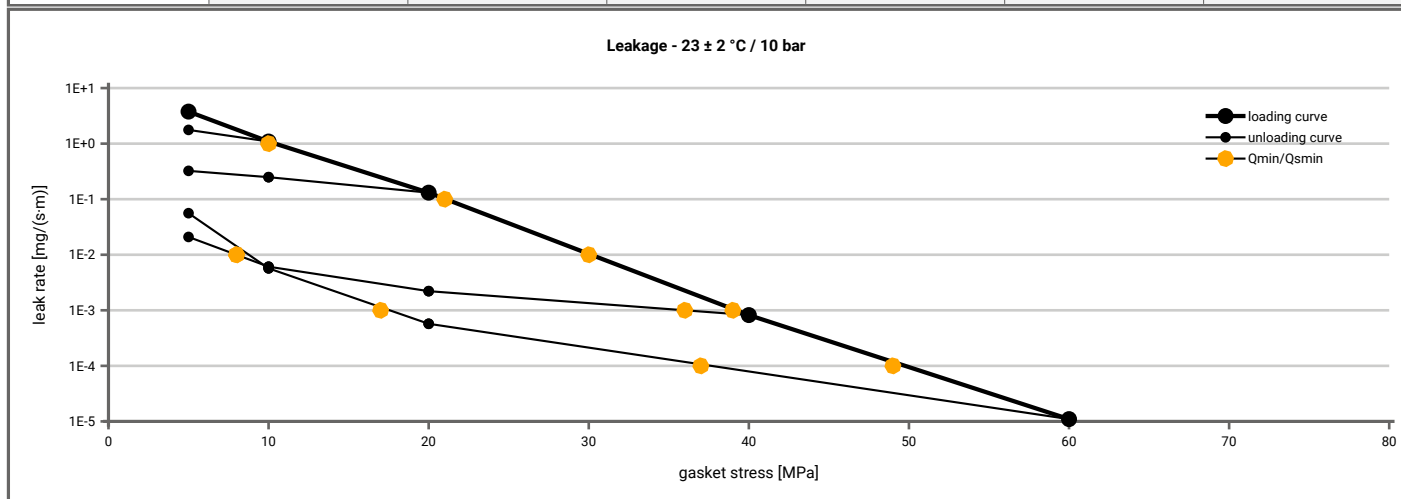
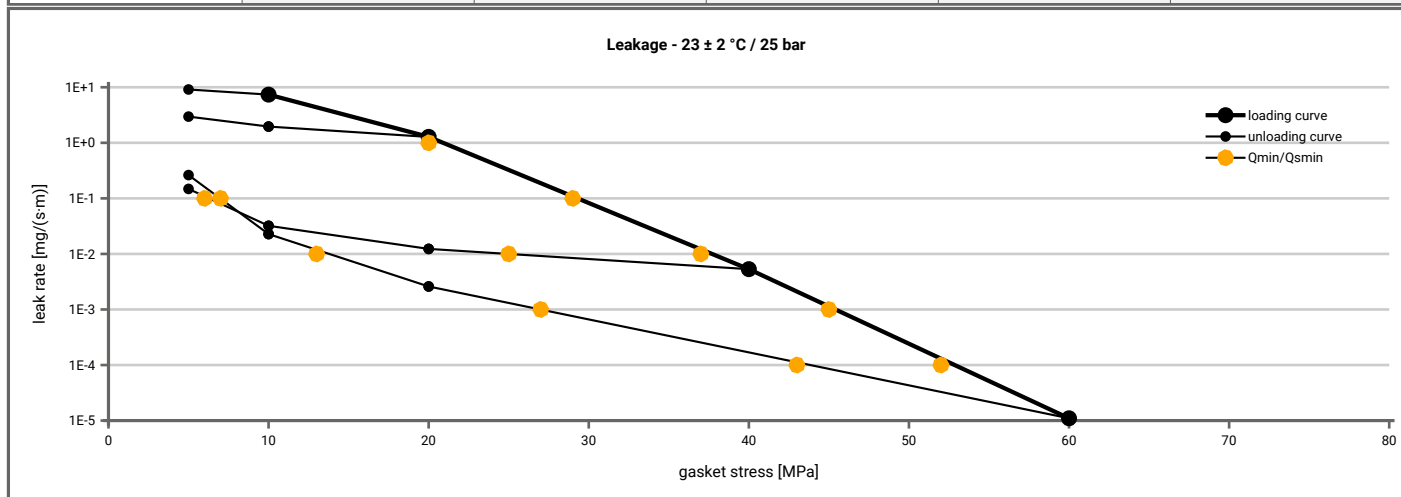


Manufacturer address	KLINGER GmbH, Richard Klinger Str. 37, 65510 Idstein, DE	According to DIN EN 13555 2014-7
Product name	KLINGER® MilamPSS200BI with inner eyelet	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ 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]	$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]
1E+1	5		5	5	5	5
1E-0	10			5	5	5
1E-1	21				5	5
1E-2	30				8	9
1E-3	39				36	18
1E-4	50					38
1E-5						
1E-6						
1E-7						
1E-8						



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 25$ bar ($T = 23 \pm 2$ °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]	
1E+1	10	5	5	5	5	
1E-0	21			5	5	
1E-1	29			6	7	
1E-2	38			25	14	
1E-3	45				27	
1E-4	53				44	
1E-5						
1E-6						
1E-7						
1E-8						



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 2	Creation date of this sheet: 2019-06-07
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Product name	KLINGER® MilamPSS200BI with inner eyelet	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [200 °C]		Temperature 2 [400 °C]		Temperature 3 [650 °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 [30 MPa]	0.82	45	0.48	131	0.47	133	0.34	166		
Stress level 2 [50 MPa]	0.91	38	0.58	178	0.59	174	0.63	155		
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.94	50	0.76	206	0.78	189	0.86	122		
Q_{smax}	100 MPa		100 MPa		100 MPa		100 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 [400 °C]		Temperature 3 [650 °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	2.190	0	2.125	0	2.173	0	2.280		
1	0	1.969	0	1.970	0	1.947	0	1.984		
20	2241	1.786	1598	1.567	5840	1.567	1300	1.554		
30	3963	1.752	2586	1.547	6465	1.555	2117	1.544		
40	6623	1.712	4437	1.529	7255	1.547	2551	1.530		
50	8006	1.657	7310	1.517	9314	1.540	2993	1.511		
60	9711	1.620	9976	1.510	10130	1.529	3534	1.484		
80	10963	1.585	16287	1.499	8887	1.511	4777	1.453		
100	9129	1.561	11334	1.486	8202	1.496	5703	1.433		

