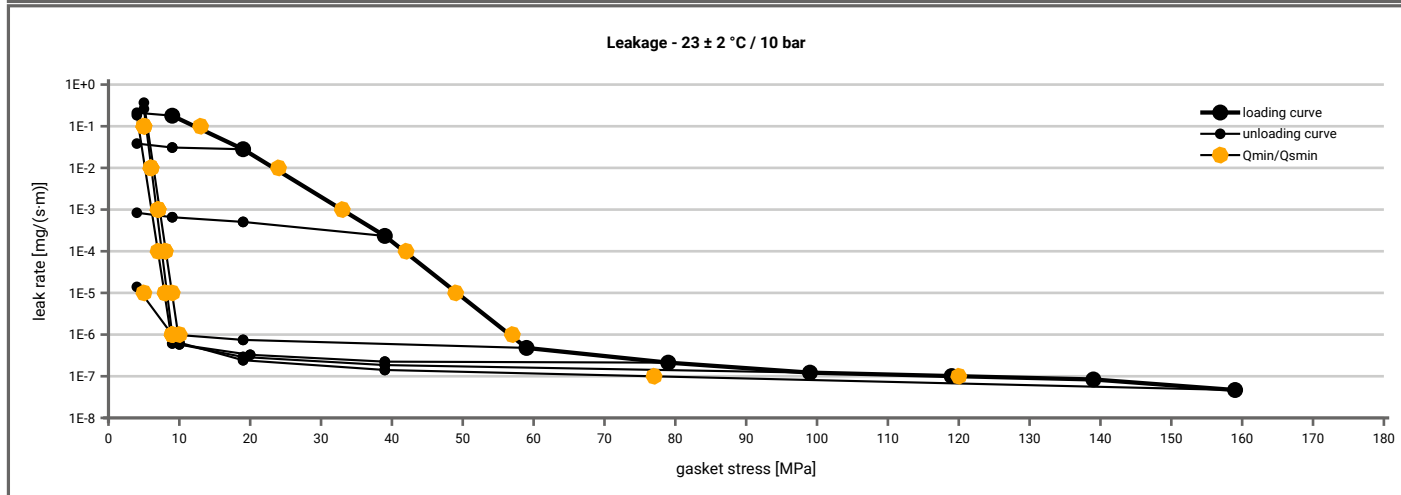
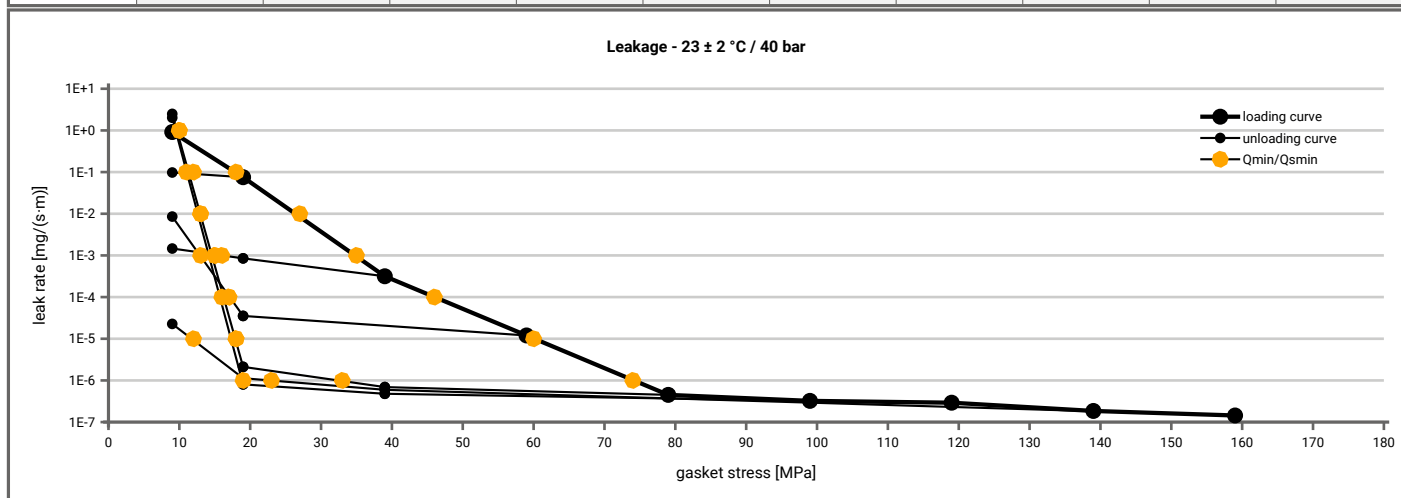


Manufacturer address	Kempchen Dichtungstechnik GmbH, Im Waldteich 21, 46147 Oberhausen, DE	According to DIN EN 13555 2005-2
Product name	Grooved gasket B7A / B9A / B15A PTFE unsintered (1.4541 / 0,35 mm)	
Product dimensions	69 x 53 x 4.8 mm (DIN EN 1514-6 2004-3)	

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]								
		$Q_A = 10$ [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	5	5	5	5	5	5			5
1E-1	13		5	5	5	5	5			6
1E-2	24			5	6	6	5			6
1E-3	34			5	7	7	5			7
1E-4	42				8	8	5			8
1E-5	50				9	9	5			9
1E-6	57				10	10	9			10
1E-7	120									77
1E-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]								
		$Q_A = 9.7$ [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+1	10		10	10	10	10	10			10
1E-0	10		10	10	10	10	10			10
1E-1	18		10	10	10	12	12			10
1E-2	27			10	10	14	13			10
1E-3	35			17	14	15	15			10
1E-4	47				18	17	17			10
1E-5	61					19	18			13
1E-6	75					33	20			24
1E-7										
1E-8										

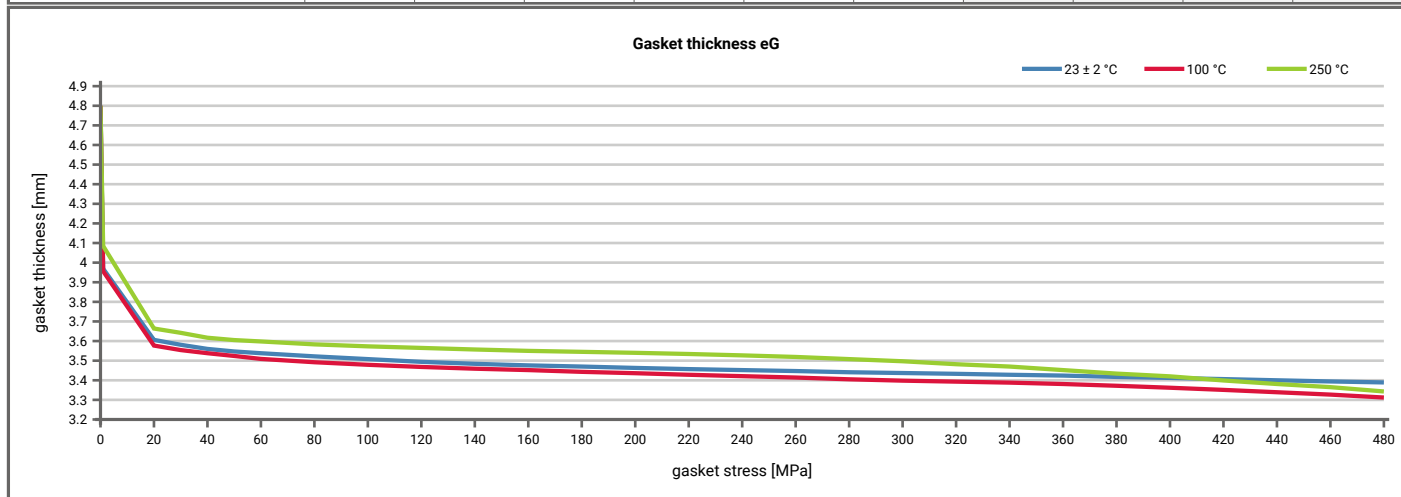


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2014-02-20
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Manufacturer address	Kempchen Dichtungstechnik GmbH, Im Waldteich 21, 46147 Oberhausen, DE	According to DIN EN 13555 2005-2
Product name	Grooved gasket B7A / B9A / B15A PTFE unsintered (1.4541 / 0,35 mm)	
Product dimensions	69 x 53 x 4.8 mm (DIN EN 1514-6 2004-3)	

Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [200 °C]		Temperature 3 [250 °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 [90 MPa]	0.99	4	0.84	44	0.70	83	0.63	102		
Stress level 2 [180 MPa]	0.98	14	0.86	77	0.83	94	0.80	113		
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.99	15	0.98	37	0.94	88	0.95	74		
Q_{smax}	480 MPa		480 MPa		480 MPa		480 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]		Temperature 2 [250 °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	4.800	0	4.800	0	4.800				
1	0	3.969	0	3.956	0	4.085				
20	2811	3.606	3655	3.577	3788	3.664				
30	5150	3.581	5100	3.554	5303	3.642				
40	5672	3.560	6595	3.538	8376	3.617				
50	7891	3.547	7308	3.524	10594	3.605				
60	9737	3.538	6708	3.509	12320	3.598				
80	10969	3.522	9546	3.492	11938	3.583				
100	10126	3.508	15313	3.479	12607	3.573				
120	10746	3.494	15571	3.468	14528	3.565				
140	12307	3.484	15934	3.459	14744	3.557				
160	13385	3.476	17597	3.452	15158	3.550				
180	14904	3.470	17077	3.443	17713	3.545				
200	17491	3.463	17424	3.436	19717	3.540				
220	17954	3.457	18303	3.428	20089	3.534				
240	18757	3.452	19054	3.421	18239	3.527				
260	19402	3.447	20038	3.414	17529	3.519				
280	18962	3.441	17310	3.405	17236	3.508				
300	19344	3.437	16281	3.398	19616	3.497				
320	19233	3.433	16297	3.393	19098	3.482				
340	19503	3.428	16350	3.388	19963	3.470				
360	19362	3.424	18305	3.381	19083	3.452				
380	19469	3.417	17972	3.372	17404	3.434				
400	19427	3.412	18556	3.362	20493	3.420				
420	19487	3.406	20372	3.351	17966	3.399				
440	19662	3.400	21908	3.339	17960	3.381				
460	19748	3.394	20707	3.327	21484	3.365				
480	20301	3.389	19276	3.312	20583	3.343				



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