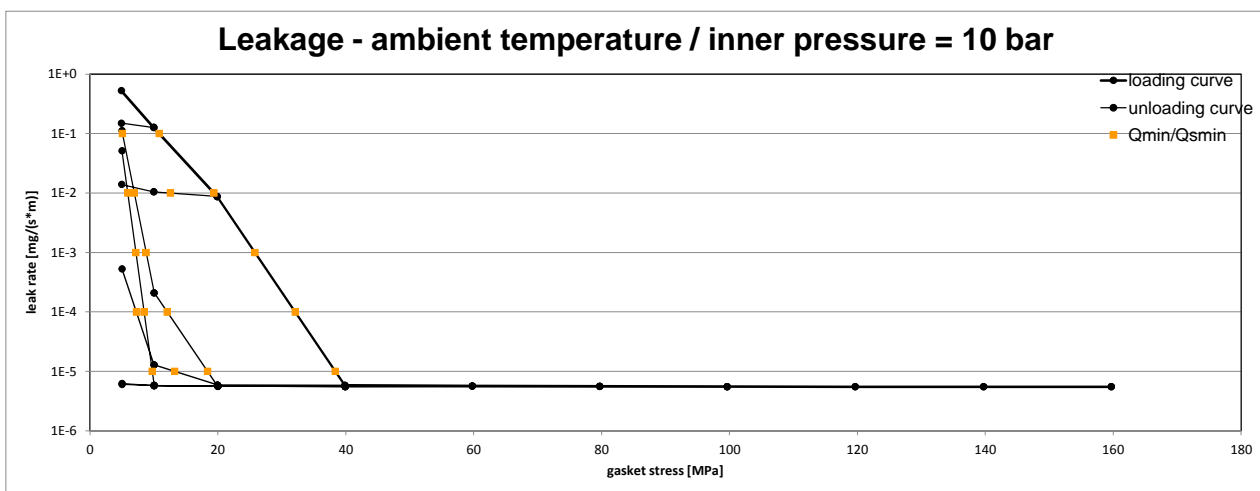
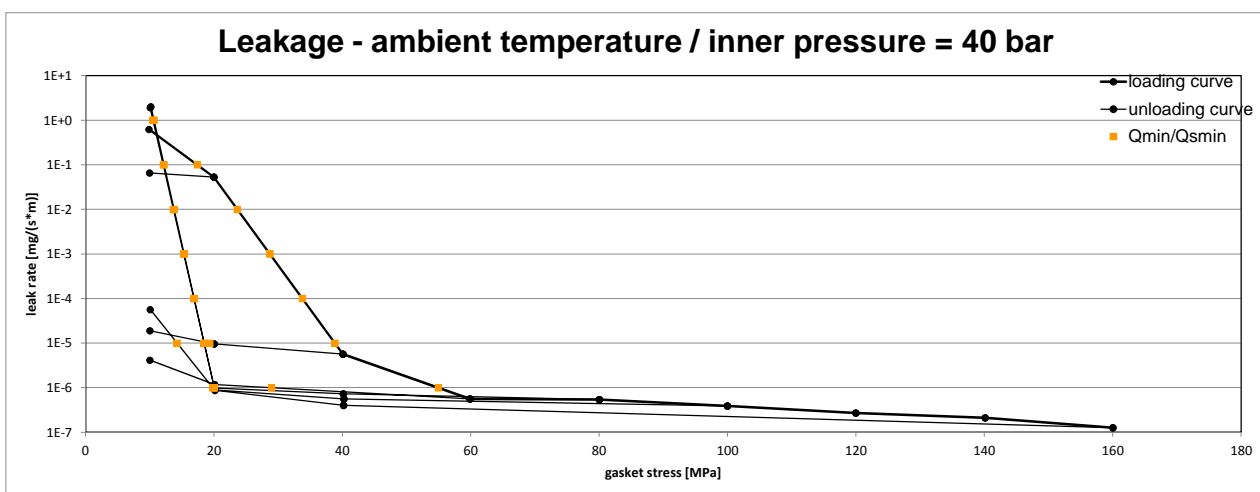


Company Address	Kempchen Dichtungstechnik GmbH, Im Waldteich 21, 46147 Oberhausen, Germany
Gasket Type	Grooved gasket B7A / B9A / B15A PTFE unsintered
Sealing element dimensions [mm]	53 / 69 x 92 x 4,8 (WN 145 , DIN 1514-6)

L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 10 bar									
		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	
10 ⁰	5	5	5	5	5	5	5			5	
10 ⁻¹	11		5	5	5	5	5			5	
10 ⁻²	19		13	5	6	7	5			5	
10 ⁻³	26			5	7	9	5			5	
10 ⁻⁴	32			7	8	12	5			5	
10 ⁻⁵	38			13	10	18	5			5	



L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 40 bar									
		Q _{Smin/L} [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		
10 ⁰	10	10	10	10	10	11			10		
10 ⁻¹	17	10	10	10	12	12			10		
10 ⁻²	24		10	10	14	14			10		
10 ⁻³	29		10	10	15	15			10		
10 ⁻⁴	34		10	10	17	17			10		
10 ⁻⁵	39		19	10	18	18			14		
10 ⁻⁶	55			29	20	20			20		



Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 1 Creation date of this sheet: 20.01.2014



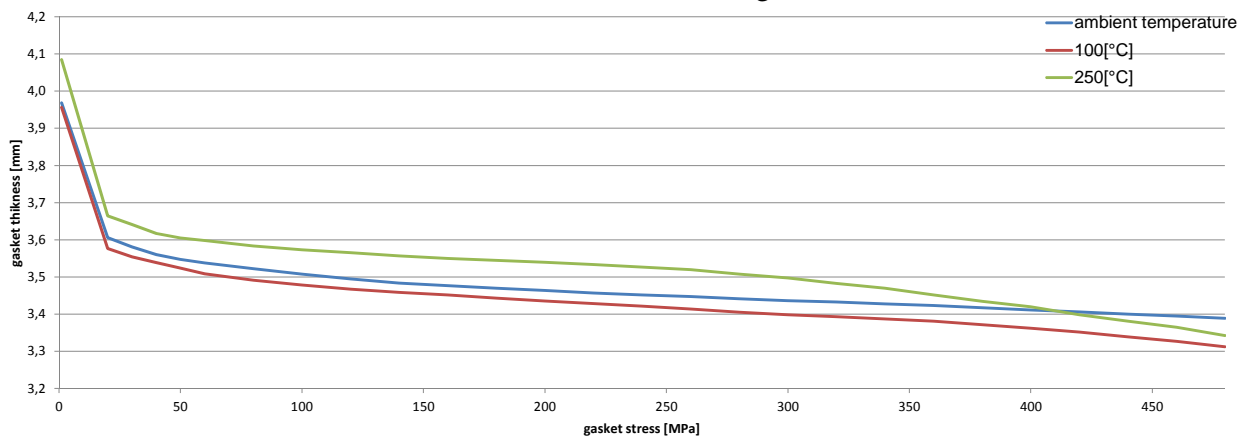
Company Address	Kempchen Dichtungstechnik GmbH, Im Waldteich 21, 46147 Oberhausen, Germany
Gasket Type	Grooved gasket B7A / B9A / B15A PTFE unsintered
Sealing element dimensions [mm]	53 / 69 x 92 x 4,8 (WN 145 , DIN 1514-6)

Relaxation ratio P_{GR} for stiffness $C = 500$ kN/mm					
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [150 °C]	temperature 3 [200 °C]	temperature 4 [250 °C]
Stress level 1 [60 MPa]	0,97	10,00	0,90		
Stress level 2 [90 MPa]	0,99	0,84	0,70	0,63	
Stress level 3 [180 MPa]	0,98	0,86		0,83	0,80
PQR at Q_{Smax}	0,99 at 480 MPa	0,98 at 480 MPa		0,94 at 480 MPa	0,95 at 480 MPa

Maximal applicable gasket stress Q_{Smax}				
Q_{Smax} [MPa] ambient temperature	Q_{Smax} [MPa] – temperature 1 [100 °C]	Q_{Smax} [MPa] – temperature 2 [200 °C]	Q_{Smax} [MPa] – temperature 3 [250 °C]	
480	480	480	480	

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]						
Gasket stress [MPa]	ambient temperature		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]
0		4,800		4,800		4,800
1		3,969		3,956		4,085
20	2811	3,606	3654	3,577	3788	3,665
30	5150	3,581	5100	3,555	5302	3,642
40	5672	3,560	6595	3,539	8376	3,618
50	7891	3,548	7308	3,525	10594	3,605
60	9737	3,538	6707	3,509	12320	3,598
80	10969	3,523	9546	3,492	11937	3,584
100	10125	3,508	15313	3,479	12607	3,573
120	10746	3,495	15571	3,468	14528	3,565
140	12307	3,484	15934	3,459	14744	3,557
160	13384	3,477	17597	3,452	15158	3,550
180	14903	3,470	17077	3,443	17713	3,545
200	17490	3,464	17424	3,436	19717	3,540
220	17954	3,457	18303	3,429	20088	3,534
240	18757	3,452	19054	3,422	18239	3,527
260	19402	3,448	20037	3,414	17529	3,520
280	18961	3,441	17309	3,406	17236	3,508
300	19344	3,437	16280	3,399	19616	3,497
320	19232	3,433	16297	3,393	19098	3,483
340	19503	3,428	16350	3,388	19963	3,470
360	19361	3,424	18305	3,382	19083	3,452
380	19469	3,418	17972	3,372	17404	3,435
400	19426	3,412	18555	3,362	20493	3,420
420	19487	3,406	20372	3,352	17966	3,399
440	19662	3,400	21907	3,339	17960	3,381
460	19748	3,395	20707	3,327	21484	3,365
480	20301	3,389	19276	3,313	20583	3,343

Gasket thickness e_G



Note: the content of darkened cells was not determined respectively is unnecessary

Rev - No: 1

Creation date of this sheet:

20.01.2014

page 2 of 2

