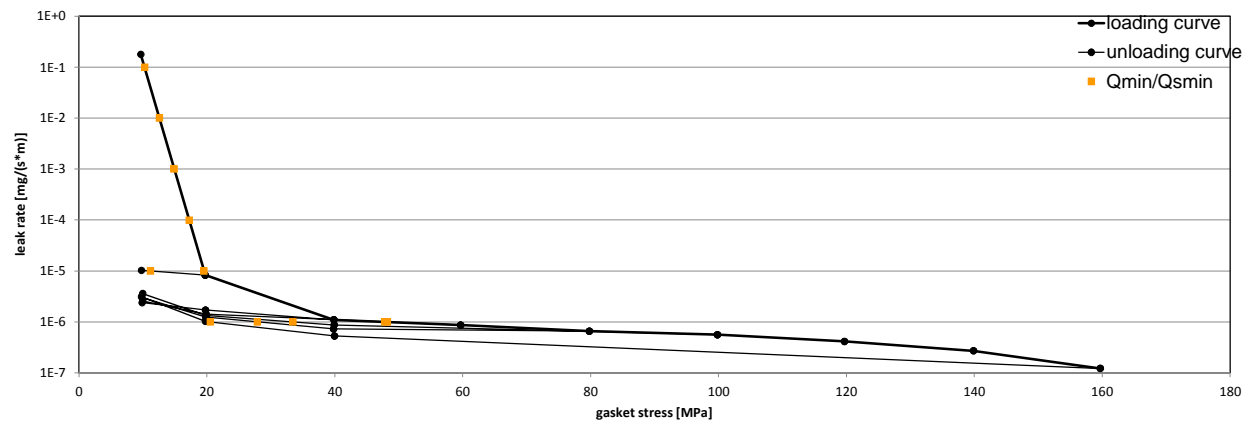


Company Address	Kempchen Dichtungstechnik GmbH, Im Waldteich 21, 46147 Oberhausen, Germany
Gasket Type	Grooved gasket B25A / B27A / B29A-PTFE unsintered (1.4541 / 0,35 mm)
Sealing element dimensions [mm]	53 / 73 x 92 x 4,85 mm (WN101)

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	10			10		
10 ⁻¹	10	10	10	10	10	10			10		
10 ⁻²	13	10	10	10	10	10			10		
10 ⁻³	15	10	10	10	10	10			10		
10 ⁻⁴	17	10	10	10	10	10			10		
10 ⁻⁵	20	11	10	10	10	10			10		
10 ⁻⁶	48			48	28	33			21		

Leakage - ambient temperature / inner pressure = 40 bar



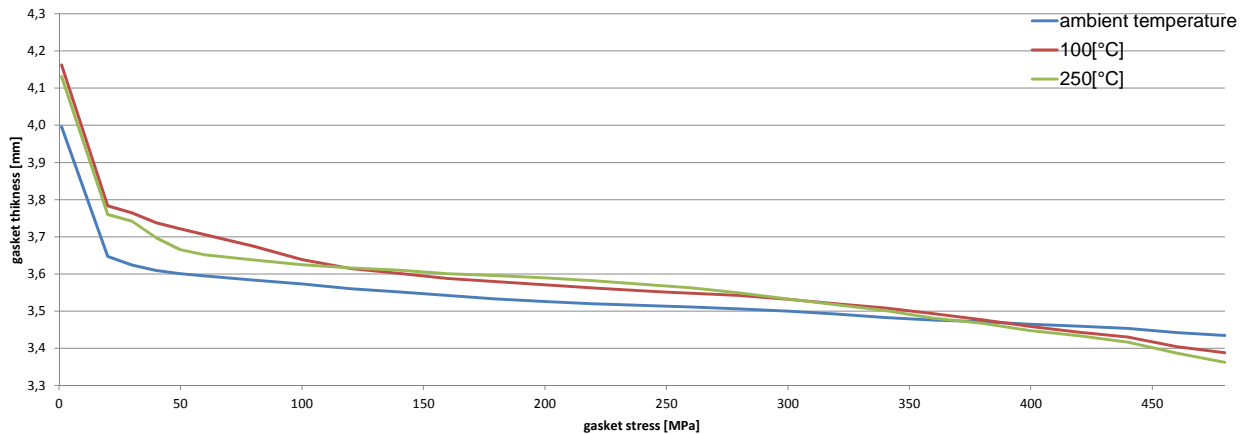
Company Address	Kempchen Dichtungstechnik GmbH, Im Waldteich 21, 46147 Oberhausen, Germany
Gasket Type	Grooved gasket B25A / B27A / B29A-PTFE unsintered (1.4541 / 0,35 mm)
Sealing element dimensions [mm]	53 / 73 x 92 x 4,85 mm (WN101)

Relaxation ratio P_{GR} for stiffness $C = 500$ kN/mm				
Gasket stress [MPa]	ambient temperature	temperature 1 [200 °C]	temperature 2 [250 °C]	
Stress level 1 [90 MPa]	0,94	0,74	0,66	
Stress level 2 [180 MPa]	1,00	0,98	0,89	
PQR at Q_{Smax}	1,00 at 480 MPa	0,99 at 480 MPa	0,98 at 480 MPa	

Maximal applicable gasket stress Q_{Smax}			
Q_{Smax} [MPa] ambient temperature	Q_{Smax} [MPa] – temperature 1 [200 °C]	Q_{Smax} [MPa] – temperature 2 [250 °C]	
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						
1		3,996		4,162		4,132
20	3053	3,647	4597	3,783	4052	3,761
30	5322	3,625	6043	3,765	6451	3,742
40	5674	3,610	8392	3,738	8002	3,698
50	6501	3,601	10076	3,722	10199	3,666
60	7983	3,595	11839	3,706	14370	3,652
80	9575	3,584	14501	3,675	12175	3,638
100	10880	3,574	20571	3,639	12661	3,625
120	11715	3,561	18175	3,615	15507	3,616
140	15751	3,552	17616	3,602	19272	3,610
160	15145	3,542	16112	3,588	18875	3,601
180	15484	3,533	17531	3,579	20080	3,596
200	16221	3,526	19405	3,571	23066	3,590
220	17041	3,520	19825	3,563	22613	3,582
240	18812	3,516	19065	3,555	19433	3,573
260	19555	3,512	21203	3,549	21741	3,563
280	20000	3,507	24167	3,542	20479	3,549
300	19715	3,500	22102	3,532	19395	3,533
320	18652	3,492	22794	3,520	21217	3,517
340	17377	3,483	24166	3,509	20430	3,502
360	16730	3,476	23311	3,493	18740	3,481
380	16921	3,472	22314	3,477	19170	3,467
400	16976	3,465	20976	3,459	17945	3,448
420	18669	3,460	22457	3,444	18457	3,434
440	20410	3,454	23457	3,430	21575	3,417
460	19389	3,443	23409	3,405	17928	3,388
480	19818	3,435	21281	3,389	21378	3,362

Gasket thickness e_G



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

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Creation date of this sheet:

20.01.2014

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