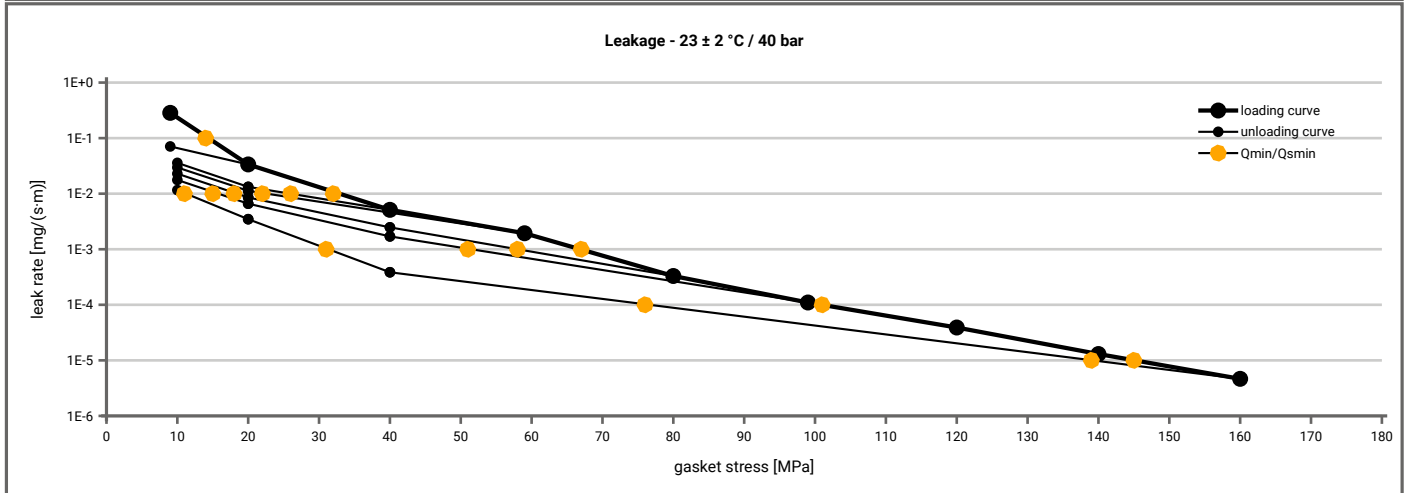


<b>Manufacturer address</b>	Kempchen Dichtungstechnik GmbH, Im Waldteich 21, 46147 Oberhausen, DE	According to <b>DIN EN 13555</b> <b>2005-2</b>
<b>Product name</b>	Grooved gasket B25A / B27A / B29A - Graphite	
<b>Product dimensions</b>	73 x 53 x 4.85 mm (Nonstandard)	

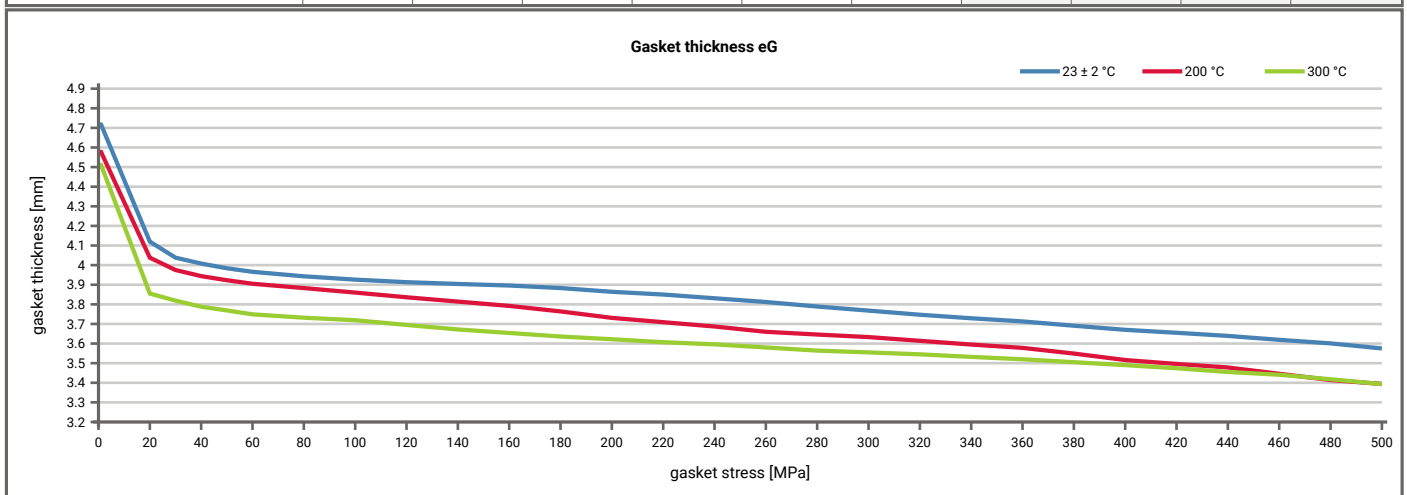
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ( $T = 23 \pm 2$ °C)										
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E-0	10		10	10	10	10	10			10
1E-1	15		10	10	10	10	10			10
1E-2	33			26	23	19	16			11
1E-3	67					58	52			31
1E-4	102									77
1E-5	145									139
1E-6										
1E-7										
1E-8										



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Relaxation ratio $P_{QR}$ for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [200 °C]		Temperature 2 [300 °C]		$P_{QR}$	$\Delta e_{Gc}$ [ $\mu$ m]	$P_{QR}$	$\Delta e_{Gc}$ [ $\mu$ m]
	$P_{QR}$	$\Delta e_{Gc}$ [ $\mu$ m]	$P_{QR}$	$\Delta e_{Gc}$ [ $\mu$ m]	$P_{QR}$	$\Delta e_{Gc}$ [ $\mu$ m]				
Stress level 1 [90 MPa]	1.00	0	0.99	5	0.97	12				
Stress level 2 [180 MPa]	0.99	7	0.99	7	0.99	7				
$P_{QR}$ and $\Delta e_{Gc}$ at maximum gasket stress to be applied $Q_{Smax}$										
$P_{QR}$ at $Q_{Smax}$	1.00	0	0.98	47	0.98	47				
$Q_{Smax}$	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 [200 °C]		Temperature 2 [300 °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	4.717	0	4.577	0	4.511				
1	0	4.717	0	4.577	0	4.511				
20	3244	4.120	2761	4.038	2986	3.855				
30	4775	4.038	5358	3.975	5521	3.819				
40	6024	4.008	7058	3.944	5901	3.788				
50	6631	3.984	6351	3.923	6771	3.769				
60	7250	3.966	8715	3.905	6387	3.749				
80	10068	3.943	13110	3.883	13400	3.732				
100	11379	3.926	11335	3.860	17868	3.719				
120	12565	3.913	11176	3.836	13889	3.695				
140	14950	3.904	13727	3.814	12016	3.672				
160	19507	3.896	17238	3.792	13243	3.654				
180	19066	3.883	14200	3.764	13487	3.636				
200	16015	3.864	12466	3.731	16002	3.622				
220	20987	3.850	17035	3.709	16911	3.607				
240	19488	3.831	18431	3.687	17599	3.596				
260	17930	3.812	14756	3.660	15207	3.580				
280	18168	3.789	16723	3.646	15129	3.564				
300	17428	3.768	21487	3.633	17451	3.555				
320	20259	3.747	19722	3.614	19030	3.545				
340	20948	3.729	20654	3.595	19428	3.532				
360	25085	3.713	23604	3.578	20888	3.520				
380	22017	3.691	19360	3.549	20565	3.505				
400	20010	3.670	16347	3.516	22136	3.490				
420	24137	3.655	19236	3.496	23544	3.474				
440	26733	3.639	27669	3.478	21389	3.455				
460	27801	3.619	23380	3.446	23789	3.441				
480	25663	3.601	17678	3.414	22372	3.418				
500	23162	3.575	19532	3.394	19039	3.393				



Note: the content of darkened cells was not determined respectively is unnecessary      Rev.-No.: 1      Creation date of this sheet: 2014-01-20