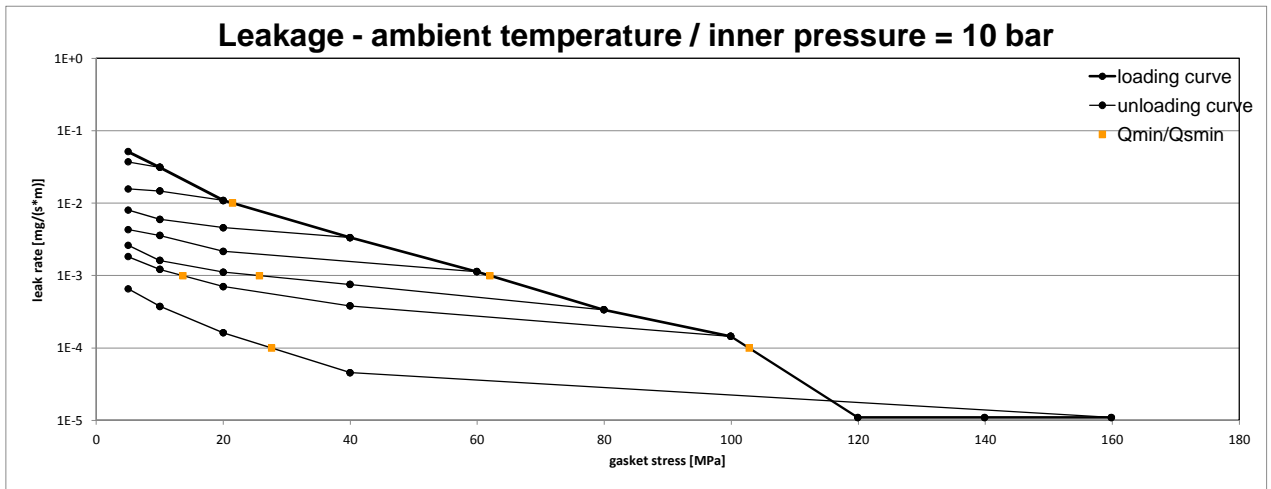
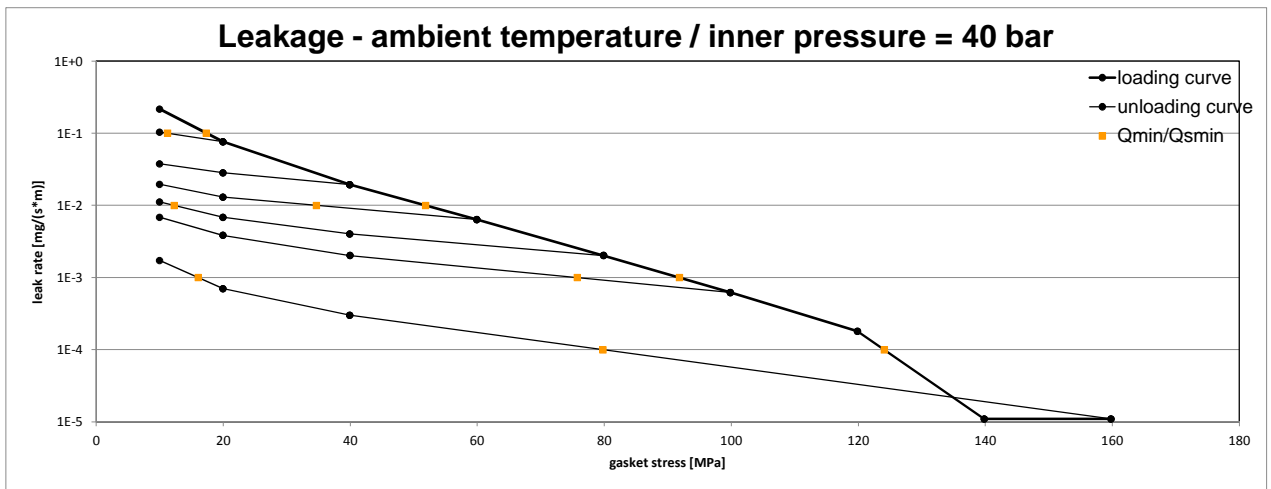


Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany
Gasket Type	KLINGER® Graphite Laminate PSM150B
Sealing element dimensions [mm]	92 x 49 x 1.5

L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 10 bar									
		Q <sub>Smin/L</sub> [MPa]									
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa	Q <sub>A</sub> = 100 MPa	Q <sub>A</sub> = 120 MPa	Q <sub>A</sub> = 140 MPa	Q <sub>A</sub> = 160 MPa	
10 <sup>0</sup>	5	5	5	5	5	5	5			5	
10 <sup>-1</sup>	5	5	5	5	5	5	5			5	
10 <sup>-2</sup>	21			5	5	5	5			5	
10 <sup>-3</sup>	62					26	14			5	
10 <sup>-4</sup>	103									28	
10 <sup>-5</sup>											
10 <sup>-6</sup>											
10 <sup>-7</sup>											
10 <sup>-8</sup>											



L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 40 bar								
		Q <sub>Smin/L</sub> [MPa]								
		Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa	Q <sub>A</sub> = 100 MPa	Q <sub>A</sub> = 120 MPa	Q <sub>A</sub> = 140 MPa	Q <sub>A</sub> = 160 MPa	
10 <sup>0</sup>	10	10	10	10	10	10			10	
10 <sup>-1</sup>	17	11	10	10	10	10			10	
10 <sup>-2</sup>	52			35	12	10			10	
10 <sup>-3</sup>	92					76			16	
10 <sup>-4</sup>	124								80	
10 <sup>-5</sup>										
10 <sup>-6</sup>										
10 <sup>-7</sup>										
10 <sup>-8</sup>										



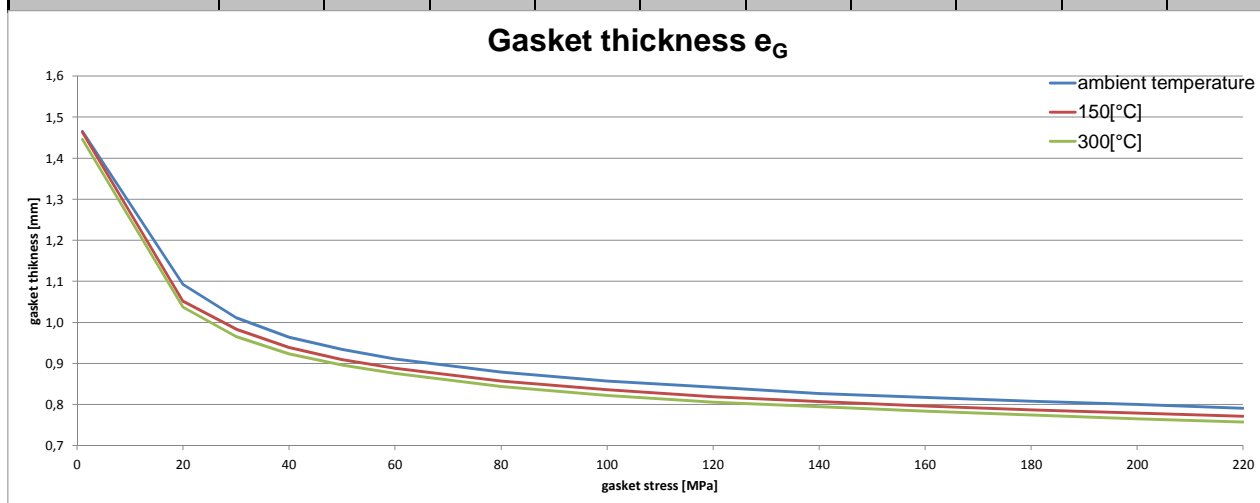
Note: the content of darkened cells was not determined respectively is unnecessary      Rev - No: 1      Creation date of this sheet: 28.03.2012

Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany
Gasket Type	KLINGER® Graphite Laminate PSM150B
Sealing element dimensions [mm]	92 x 49 x 1.5

Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [300 °C]
Stress level 1 [30 MPa]	0,99	0,95	0,92
Stress level 2 [50 MPa]	0,99	0,96	0,94
PQR at $Q_{Smax}$	1,00 at 220 MPa	0,99 at 220 MPa	0,98 at 220 MPa

$Q_{Smax}$ [MPa] ambient temperature	$Q_{Smax}$ [MPa] – temperature 1 [150 °C]	$Q_{Smax}$ [MPa] – temperature 2 [300 °C]
220	220	220

Gasket stress [MPa]	ambient temperature		temperature 1 [150 °C]		temperature 2 [300 °C]	
	$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]
0						
1		1,466		1,463		1,446
20	509	1,092	504	1,051	656	1,037
30	800	1,011	845	0,983	702	0,965
40	1217	0,964	1213	0,939	1142	0,923
50	1578	0,934	1522	0,909	1623	0,896
60	1944	0,911	2006	0,888	2076	0,876
80	2590	0,879	2693	0,857	2769	0,844
100	3340	0,857	3488	0,836	3200	0,822
120	4911	0,842	4003	0,819	3681	0,806
140	4456	0,827	4746	0,807	4409	0,794
160	5538	0,817	5409	0,797	5067	0,784
180	5629	0,808	5422	0,787	5318	0,774
200	6198	0,800	5945	0,779	5455	0,765
220	6620	0,791	6356	0,771	6174	0,757



Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: 1	Creation date of this sheet: 28.03.2012
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