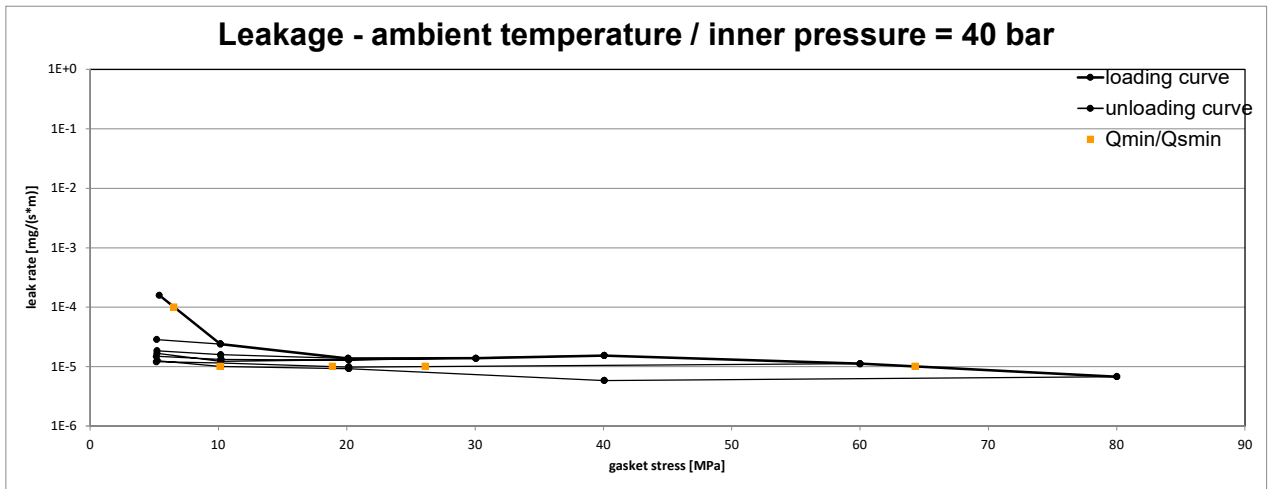


Company Address	KLINGER GmbH, Richard-Klinger-Str.37, 65510 Idstein, Germany	According to <b>DIN EN 13555</b> 2014-07
Gasket Type	KGS G 2 EPDM	
Sealing element dimensions [mm]	92 x 49 x 3 (compressed area 66 x 49)	

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> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 30 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa		
10 <sup>0</sup>	5	5	5	5	5	5	5		
10 <sup>-1</sup>	5	5	5	5	5	5	5		
10 <sup>-2</sup>	5	5	5	5	5	5	5		
10 <sup>-3</sup>	5	5	5	5	5	5	5		
10 <sup>-4</sup>	7	5	5	5	5	5	5		
10 <sup>-5</sup>	64					26	10		
10 <sup>-6</sup>									
10 <sup>-7</sup>									
10 <sup>-8</sup>									

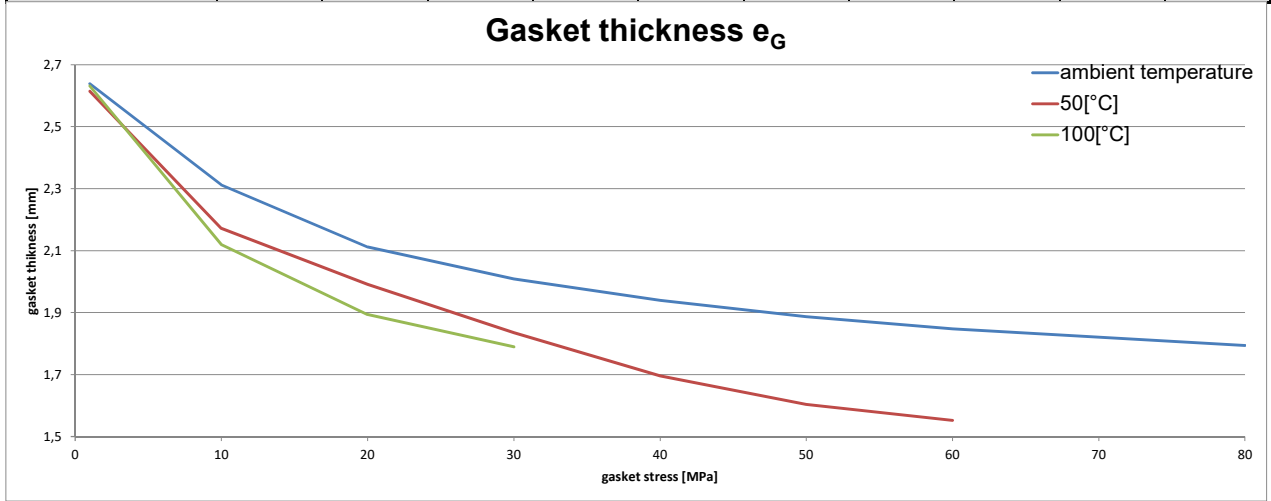


Note: the content of darkened cells was not determined respectively is unnecessary      Rev - No: 2      Creation date of this sheet: 2019-08-11

Company Address	KLINGER GmbH, Richard-Klinger-Str.37, 65510 Idstein, Germany	According to DIN EN 13555 2014-07
Gasket Type	KGS G 2 EPDM	
Sealing element dimensions [mm]	92 x 49 x 3 (compressed area 66 x 49)	

Relaxation ratio $P_{QR}$ for stiffness $C = 500$ kN/mm										
Gasket stress	ambient temperature		temperature 1 [50 °C]		temperature 2 [100 °C]					
	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]	$P_{QR}$	$\Delta e_{Gc}$ [mm]
Stress level 1 [15 MPa]	0.70	0.014	0.59	0.019	0.35	0.030				
Stress level 2 [20 MPa]			0.60	0.025	0.35	0.040				
Stress level 3 [30 MPa]	0.75	0.023								
P <sub>QR</sub> and $\Delta e_{Gc}$ at maximal applicable gasket stress $Q_{Smax}$										
$P_{QR}$ at $Q_{Smax}$	0.82	0.044	0.47	0.098	0.29	0.055				
$Q_{Smax}$	80 MPa		60 MPa		25 MPa					

Sekant unloading modulus of the gasket $E_G$ [MPa] and gasket thickness $e_G$ [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [50 °C]		temperature 2 [100 °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		3.000		3.000		3.000				
1		2.639		2.615		2.632				
10	190	2.313	164	2.172	173	2.120				
20	490	2.112	415	1.992	419	1.894				
30	834	2.009	724	1.835	620	1.789				
40	1215	1.939	1131	1.695						
50	1698	1.887	1574	1.604						
60	2151	1.847	1998	1.552						
80	3177	1.794								



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