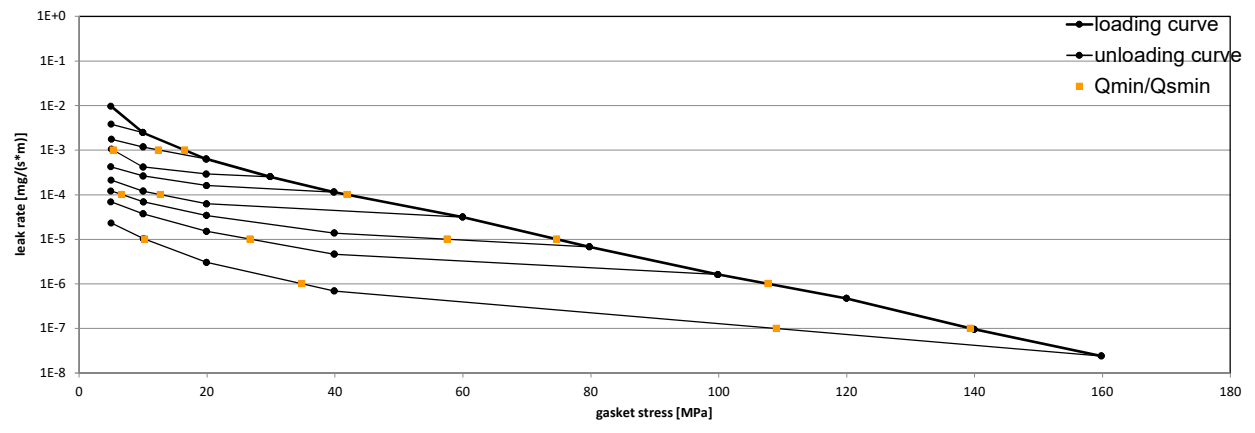


Company Address	IDT Industrie- und Dichtungstechnik GmbH Gewerberg 6, 09456 Annaberg-Buchholz	According to <b>DIN EN 13555</b> 2014-07
Gasket Type	IDT SIGRAFLEX Universal Pro, IDT-WS 3865, IDT-Profil FD01	
Sealing element dimensions [mm]	92 x 49 x 2	

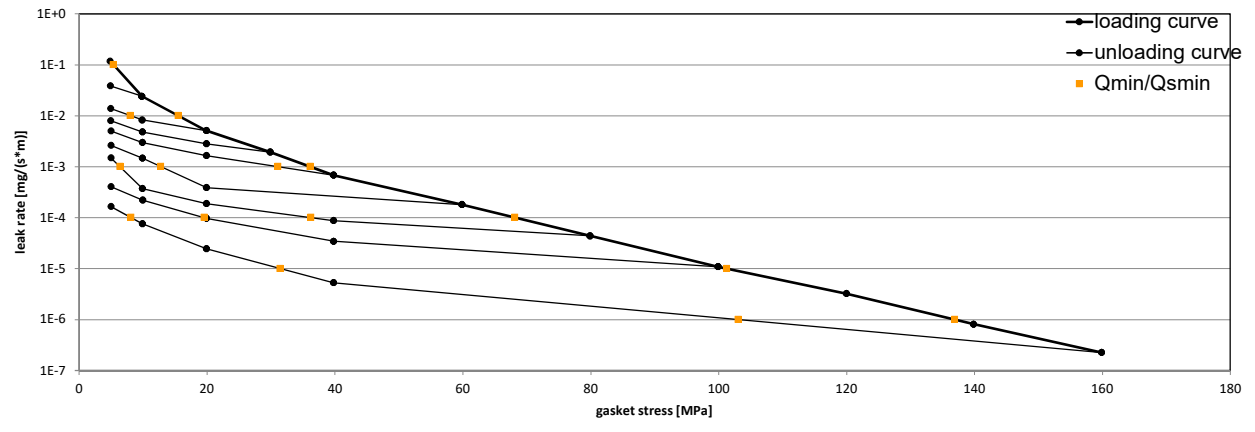
L [mg/(s*m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 10 bar									
		Q <sub>Smin/L</sub> [MPa]									
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 30 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</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			5
10 <sup>-1</sup>	5	5	5	5	5	5	5	5			5
10 <sup>-2</sup>	5	5	5	5	5	5	5	5			5
10 <sup>-3</sup>	17		12	5	5	5	5	5			5
10 <sup>-4</sup>	42					13	7	5			5
10 <sup>-5</sup>	75						58	27			10
10 <sup>-6</sup>	108										35
10 <sup>-7</sup>	139										109
10 <sup>-8</sup>											

### Leakage - ambient temperature / inner pressure = 10 bar



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	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			5
10 <sup>-1</sup>	5	5	5	5	5	5	5	5			5
10 <sup>-2</sup>	16		8	5	5	5	5	5			5
10 <sup>-3</sup>	36				31	13	6	5			5
10 <sup>-4</sup>	68						36	20			8
10 <sup>-5</sup>	101										31
10 <sup>-6</sup>	137										103
10 <sup>-7</sup>											
10 <sup>-8</sup>											

### Leakage - ambient temperature / inner pressure = 40 bar

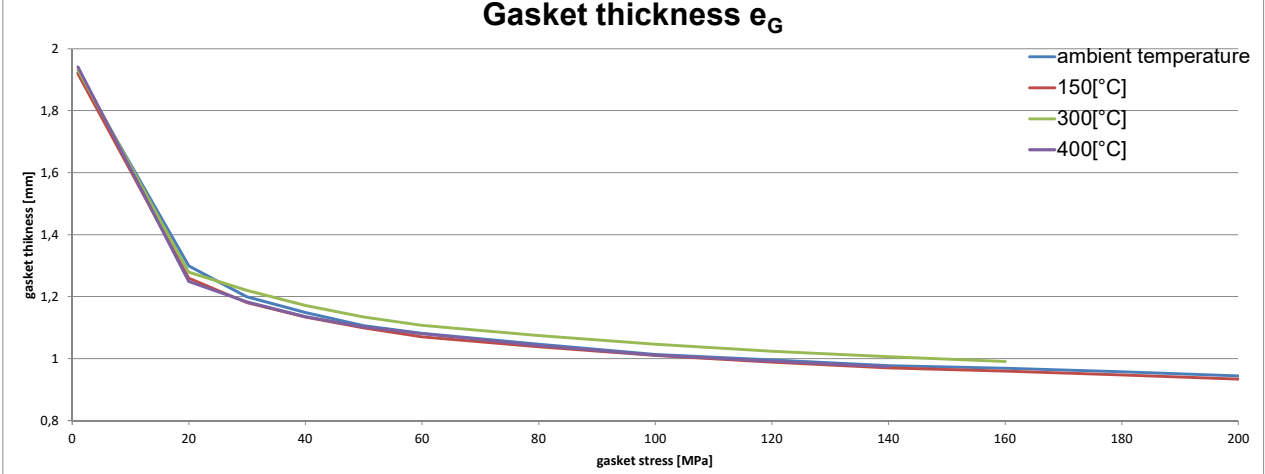


Note: the content of darkened cells was not determined respectively is unnecessary      Rev - No: 2      Creation date of this sheet: 2019-06-24

<b>Company Address</b>	<i>IDT Industrie- und Dichtungstechnik GmbH Gewerberg 6, 09456 Annaberg-Buchholz</i>	<b>According to DIN EN 13555 2014-07</b>
<b>Gasket Type</b>	<i>IDT SIGRAFLEX Universal Pro, IDT-WS 3865, IDT-Profil FD01</i>	
<b>Sealing element dimensions [mm]</b>	<i>92 x 49 x 2</i>	

Relaxation ratio $P_{QR}$ for stiffness $C = 500$ kN/mm										
Gasket stress	ambient temperature		temperature 1 [150 °C]		temperature 2 [300 °C]		temperature 3 [400 °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 [30 MPa]	0.97	0.008	0.94	0.016	0.89	0.029	0.84	0.040		
Stress level 2 [50 MPa]	0.99	0.004	0.97	0.015	0.95	0.021	0.91	0.040		
$P_{QR}$ and $\Delta e_{Gc}$ at maximal applicable gasket stress $Q_{Smax}$										
$P_{QR}$ at $Q_{Smax}$	1.00	0.000	0.99	0.017	0.99	0.013	0.98	0.023		
$Q_{Smax}$	200 MPa		200 MPa		160 MPa		140 MPa			

Sekant unloading modulus of the gasket $E_G$ [MPa] and gasket thickness $e_G$ [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [150 °C]		temperature 2 [300 °C]		temperature 3 [400 °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		1.991		1.995		1.976		2.017		
1		1.924		1.920		1.933		1.942		
20	433	1.300	569	1.260	547	1.279	624	1.248		
30	814	1.200	1030	1.181	1032	1.220	770	1.183		
40	1066	1.149	1086	1.134	1170	1.172	1092	1.135		
50	1077	1.107	1289	1.099	1339	1.134	1314	1.102		
60	1645	1.081	1366	1.070	1550	1.107	2018	1.080		
80	2628	1.046	3210	1.038	3184	1.074	2216	1.042		
100	2375	1.013	2859	1.010	2984	1.046	2383	1.011		
120	4666	0.996	3119	0.988	3266	1.024	3101	0.991		
140	4919	0.977	4768	0.970	4307	1.006	4254	0.974		
160	7545	0.969	6044	0.959	5493	0.990				
180	11339	0.958	8752	0.947						
200	9901	0.945	7804	0.934						



Note: the content of darkened cells was not determined respectively is unnecessary Rev - No: 2 Creation date of this sheet: 2019-06-24