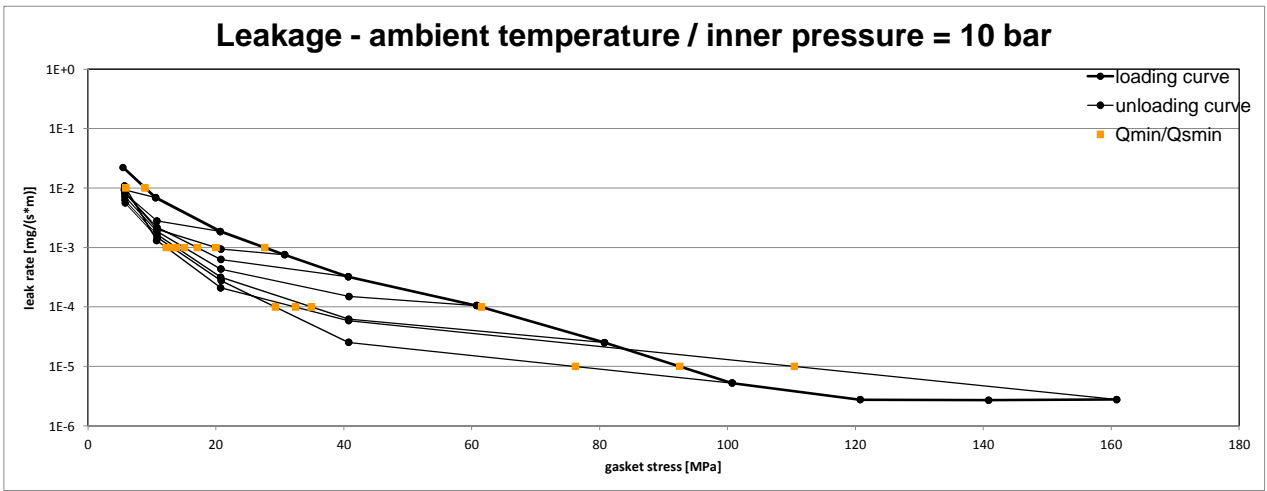
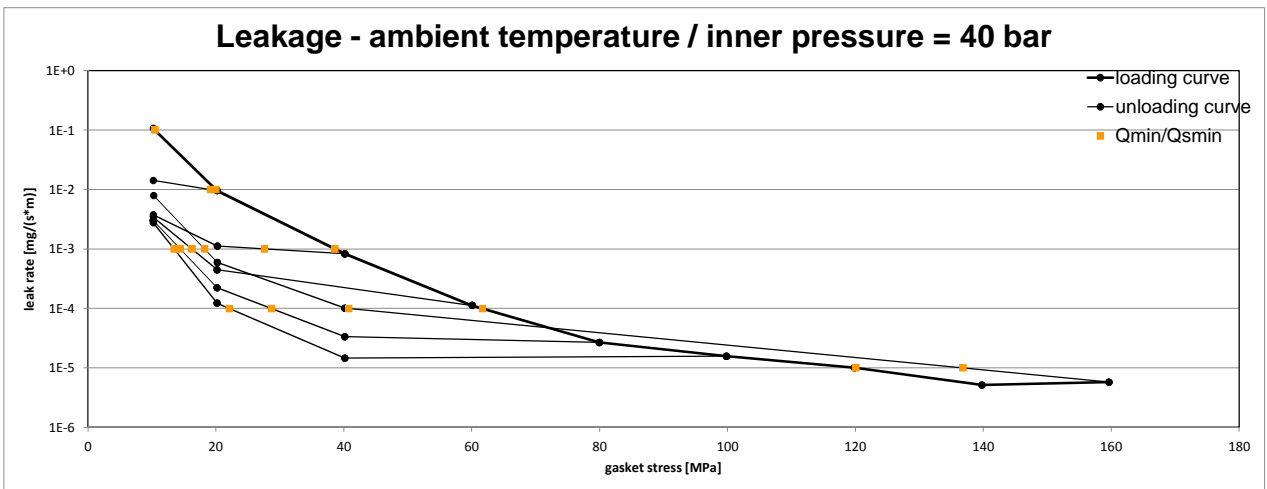


Company Address	IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany
Gasket Type	IDT – Spiral-wound gasket with graphite filler; WS 1.4301/3800/St37 coated; IDT style SD10; LE
Sealing element dimensions [mm]	68 x 56 x 4,9

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>	9	5	5	5	5	5	5	5			6
10 <sup>-3</sup>	28			20	17	15		13			12
10 <sup>-4</sup>	62						35	29			32
10 <sup>-5</sup>	93							76			110
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>	10	10	10	10	10	10			10	
10 <sup>-2</sup>	20	19	10	10	10	10			10	
10 <sup>-3</sup>	39		28	16	14	13			18	
10 <sup>-4</sup>	62				29	22			41	
10 <sup>-5</sup>	120								137	
10 <sup>-6</sup>										
10 <sup>-7</sup>										
10 <sup>-8</sup>										

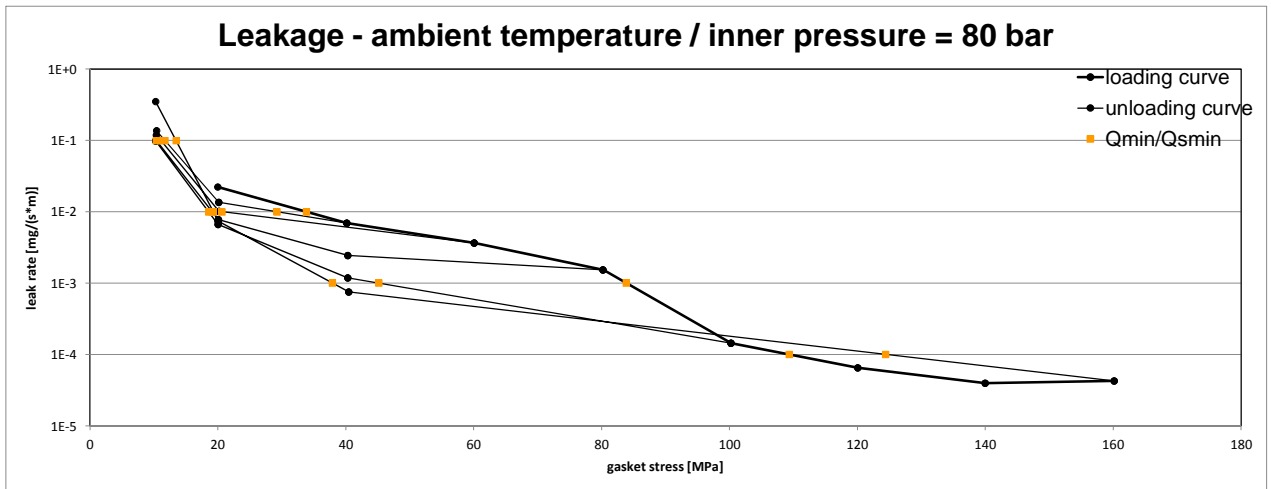


Note: the content of darkened cells was not determined respectively is unnecessary      Rev - No: 1      Creation date of this sheet: 18.06.2012



Company Address	IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany
Gasket Type	IDT – Spiral-wound gasket with graphite filler; WS 1.4301/3800/Si37 coated; IDT style SD10; LE
Sealing element dimensions [mm]	68 x 56 x 4,9

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 = 80 bar									
		Q <sub>Smin/L</sub> [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>	20	10	10	10	10			10			
10 <sup>-1</sup>	20	12	11	10	10			13			
10 <sup>-2</sup>	34	29	21	19	19			19			
10 <sup>-3</sup>	84				45			38			
10 <sup>-4</sup>	109							124			
10 <sup>-5</sup>											
10 <sup>-6</sup>											
10 <sup>-7</sup>											
10 <sup>-8</sup>											



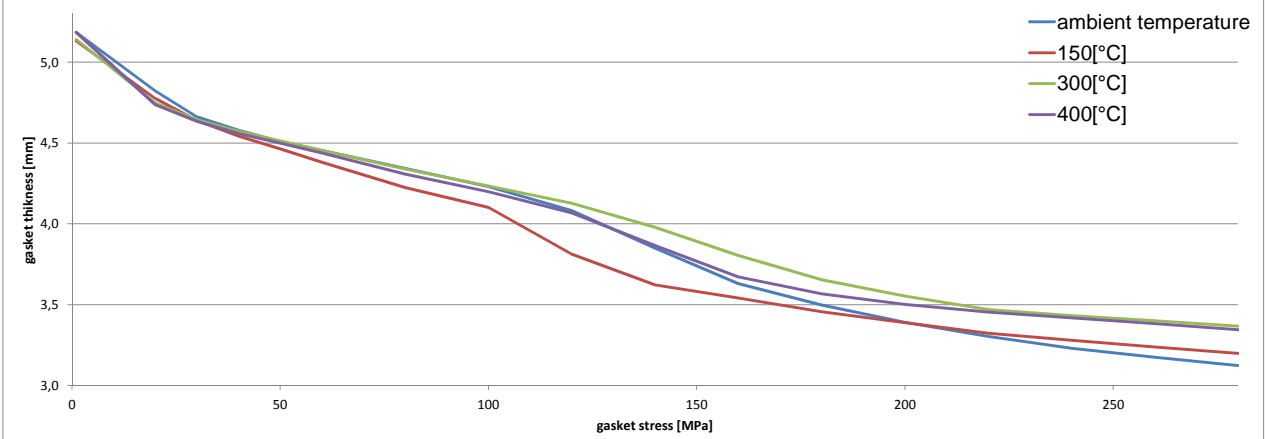
Company Address	IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany
Gasket Type	IDT – Spiral-wound gasket with graphite filler; WS 1.4301/3800/Si37 coated; IDT style SD10; LE
Sealing element dimensions [mm]	68 x 56 x 4,9

Relaxation ratio P <sub>QR</sub> for stiffness C = 500 kN/mm					
Gasket stress [MPa]	ambient temperature	temperature 1 [150 °C]	temperature 2 [300 °C]	temperature 3 [400 °C]	
Stress level 1 [50 MPa]	0,98	0,91	0,85	0,72	
Stress level 2 [130 MPa]	0,97	0,89	0,82	0,78	
Stress level 3 [200 MPa]	0,98	0,93	0,89	0,90	
PQR at Q <sub>Smax</sub>	1,00 at 280 MPa	0,98 at 280 MPa	0,98 at 280 MPa	0,88 at 280 MPa	

Maximal applicable gasket stress Q <sub>Smax</sub>				
Q <sub>Smax</sub> [MPa]	Q <sub>Smax</sub> [MPa] – temperature 1 [150 °C]	Q <sub>Smax</sub> [MPa] – temperature 2 [300 °C]	Q <sub>Smax</sub> [MPa] – temperature 3 [400 °C]	
ambient temperature				
280	280	280	280	

Sekant unloading modulus of the gasket E <sub>G</sub> [MPa] and gasket thickness e <sub>G</sub> [mm]									
Gasket stress [MPa]	ambient temperature		temperature 1 [150 °C]		temperature 2 [300 °C]		temperature 3 [400 °C]		
	E <sub>G</sub> [MPa]	e <sub>G</sub> [mm]	E <sub>G</sub> [MPa]	e <sub>G</sub> [mm]	E <sub>G</sub> [MPa]	e <sub>G</sub> [mm]	E <sub>G</sub> [MPa]	e <sub>G</sub> [mm]	
0									
1		5,185		5,131		5,140		5,185	
20	1737	4,822	1778	4,774	1725	4,747	2766	4,737	
30	2733	4,662	3679	4,638	5743	4,644	4461	4,633	
40	4966	4,578	3755	4,542	5859	4,573	8507	4,559	
50	5278	4,509	5391	4,464	8419	4,512	8828	4,499	
60	7032	4,454	6379	4,381	8609	4,453	10054	4,437	
80	8644	4,343	8460	4,223	11355	4,339	14800	4,308	
100	7987	4,229	10002	4,102	15646	4,234	17420	4,197	
120	8085	4,082	8926	3,812	22612	4,127	24038	4,067	
140	8888	3,850	8065	3,621	20801	3,978	20122	3,865	
160	8428	3,629	11575	3,541	29200	3,804	16987	3,671	
180	8731	3,497	14194	3,456	23264	3,653	20323	3,566	
200	10186	3,391	18062	3,389	24739	3,553	21053	3,500	
220	13232	3,303	19254	3,324	27062	3,468	23516	3,453	
240	13302	3,229	25097	3,279	35171	3,431	46284	3,417	
260	19605	3,174	25184	3,237	40594	3,400	38321	3,382	
280	24562	3,123	30256	3,198	40993	3,367	76682	3,345	

**Gasket thickness e<sub>G</sub>**



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