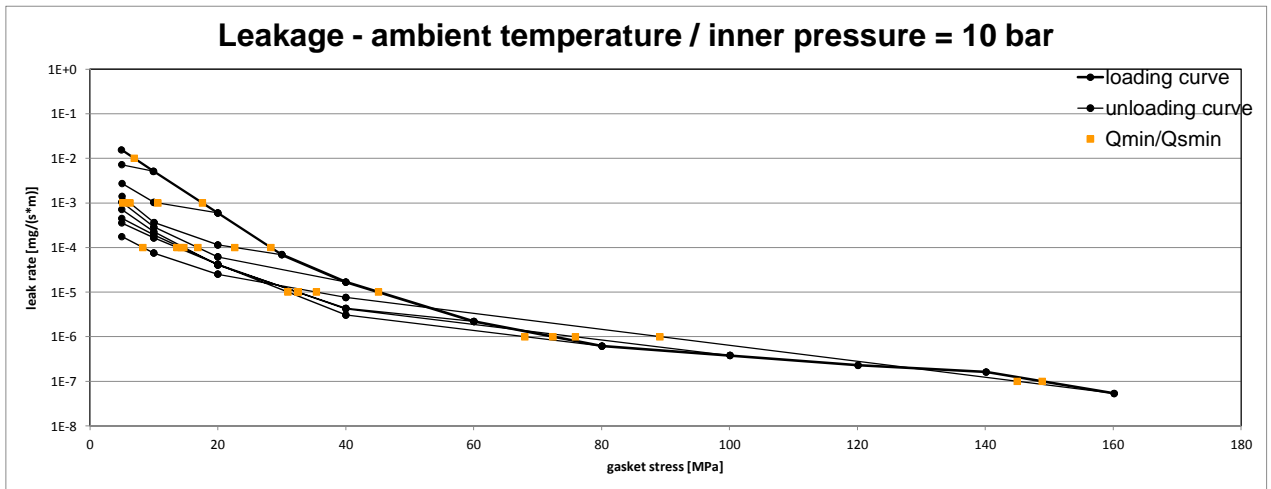
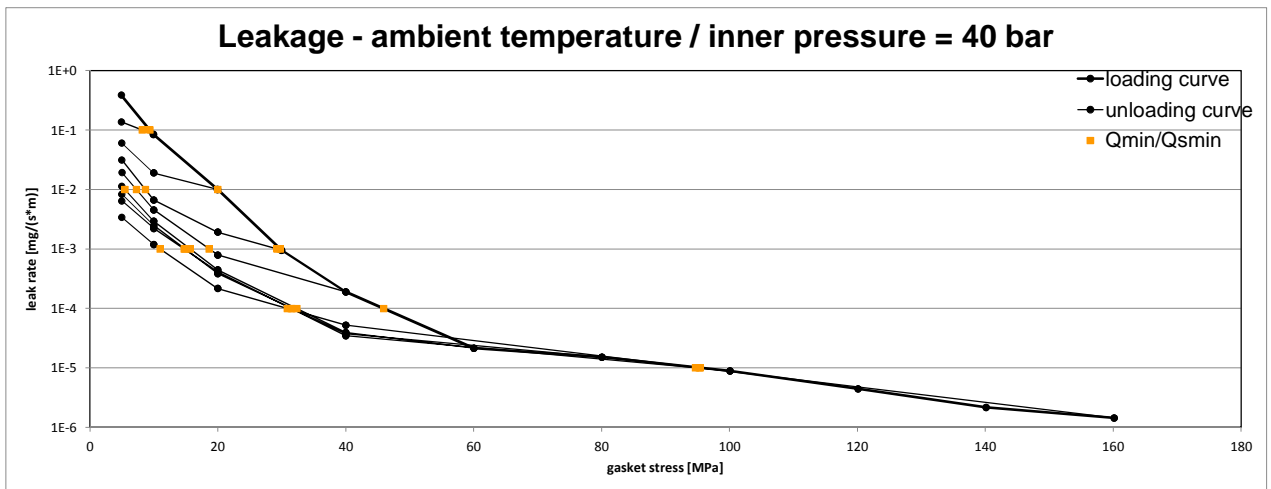


Company Address	IDT Industrie- und Dichtungstechnik GmbH Werk Kupferring, Gewerbering 6, 09456 Annaberg-Buchholz, Germany
Gasket Type	IDT - Corrugated gasket with graphite layers and inner eyelet; WS 1.4571/3803/1.4571; IDT style WD20; LE
Sealing element dimensions [mm]	92 x 49 x 3

L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 10 bar									
		Q _{Smin/L} [MPa]									
		Q _A = 10 MPa	Q _A = 20 MPa	Q _A = 30 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
10 ⁰	5	5	5	5	5	5	5	5			5
10 ⁻¹	5	5	5	5	5	5	5	5			5
10 ⁻²	7	5	5	5	5	5	5	5			5
10 ⁻³	18		11	6	5	5	5	5			5
10 ⁻⁴	28			23	17	15	14	14			8
10 ⁻⁵	45					32	31	33			35
10 ⁻⁶	72						68	76			89
10 ⁻⁷	149										145
10 ⁻⁸											



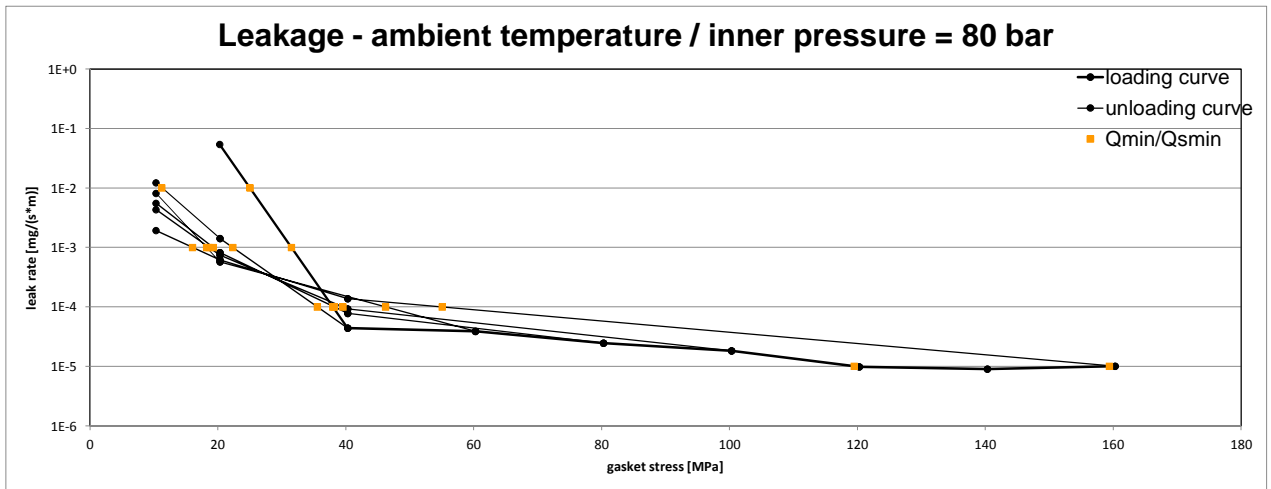
L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 40 bar									
		Q _{Smin/L} [MPa]									
		Q _A = 10 MPa	Q _A = 20 MPa	Q _A = 30 MPa	Q _A = 40 MPa	Q _A = 60 MPa	Q _A = 80 MPa	Q _A = 100 MPa	Q _A = 120 MPa	Q _A = 140 MPa	Q _A = 160 MPa
10 ⁰	5	5	5	5	5	5	5	5			5
10 ⁻¹	9	8	5	5	5	5	5	5			5
10 ⁻²	20			9	7	5	5	5			5
10 ⁻³	30			29	19	16	15	15			11
10 ⁻⁴	46					32	32	31			31
10 ⁻⁵	95							95			95
10 ⁻⁶											
10 ⁻⁷											
10 ⁻⁸											



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 - Corrugated gasket with graphite layers and inner eyelet; WS 1.4571/3803/1.4571; IDT style WD20; LE
Sealing element dimensions [mm]	92 x 49 x 3

L [mg/(s*m)]	Q _{min/L} [MPa]	Minimum stress to seal Q _{min/L} (at assembly), Q _{Smin/L} (after off-loading) for p = 80 bar								
		Q _{Smin/L} [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		
10 ⁻⁰	20	10	10	10	10			10		
10 ⁻¹	20	10	10	10	10			10		
10 ⁻²	25	11	10	10	10			10		
10 ⁻³	31	22	18	19	19			16		
10 ⁻⁴	38	36	46	38	40			55		
10 ⁻⁵	119									
10 ⁻⁶										
10 ⁻⁷										
10 ⁻⁸										



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Gasket Type	IDT - Corrugated gasket with graphite layers and inner eyelet; WS 1.4571/3803/1.4571; IDT style WD20; LE
Sealing element dimensions [mm]	92 x 49 x 3

Relaxation ratio P _{QR} for stiffness C = 500 kN/mm					
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [200 °C]	temperature 3 [300 °C]	temperature 4 [400 °C]
Stress level 1 [30 MPa]	0,96	0,84	0,84	0,81	0,83
Stress level 2 [50 MPa]	0,98	0,92	0,91	0,89	0,90
Stress level 3 [80 MPa]	0,99	0,94	0,95	0,94	0,92
PQR at Q _{Smax}	1,00 at 230 MPa	0,99 at 160 MPa	0,97 at 120 MPa	0,97 at 120 MPa	0,96 at 100 MPa

Maximal applicable gasket stress Q _{Smax}				
Q _{Smax} [MPa] ambient temperature	Q _{Smax} [MPa] – temperature 1 [100 °C]	Q _{Smax} [MPa] – temperature 2 [200 °C]	Q _{Smax} [MPa] – temperature 3 [300 °C]	Q _{Smax} [MPa] – temperature 4 [400 °C]
230	160	120	120	100

Sekant unloading modulus of the gasket E _G [MPa] and gasket thickness e _G [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [100 °C]		temperature 2 [200 °C]		temperature 3 [300 °C]		temperature 4 [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		2,775		2,792		2,781		2,780		2,808
20	896	1,649	1462	1,541	1089	1,524	1141	1,492	1091	1,484
30	1918	1,539	1602	1,477	1687	1,469	1625	1,444	2179	1,437
40	2108	1,488	1714	1,429	1735	1,422	1612	1,393	1892	1,391
50	2478	1,450	1970	1,395	1963	1,385	2146	1,353	2544	1,351
60	2848	1,423	3246	1,377	2432	1,360	3166	1,331	3049	1,324
80	3661	1,378	2901	1,336	3384	1,326	3327	1,290	3825	1,279
100	3868	1,347	3482	1,305	3131	1,293	3401	1,257	3245	1,242
120	3744	1,318	3599	1,276	4134	1,268	3682	1,230		
140	4412	1,293	5432	1,260						
160	4650	1,272	5893	1,242						
180	5106	1,255								
200	6486	1,239								
220	5918	1,220								

Gasket thickness e_G

