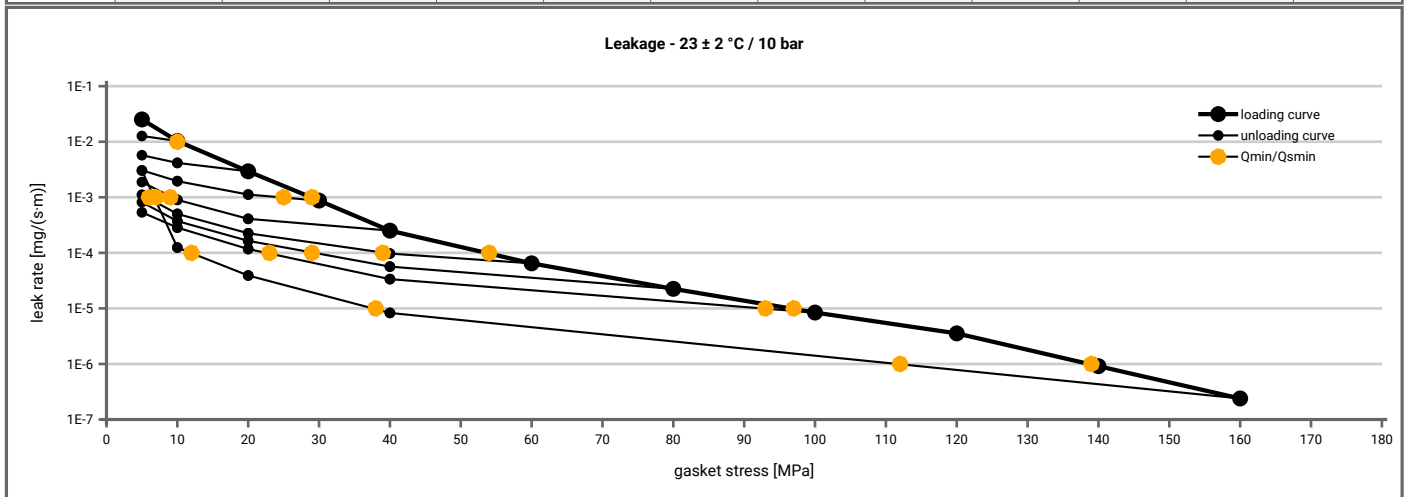
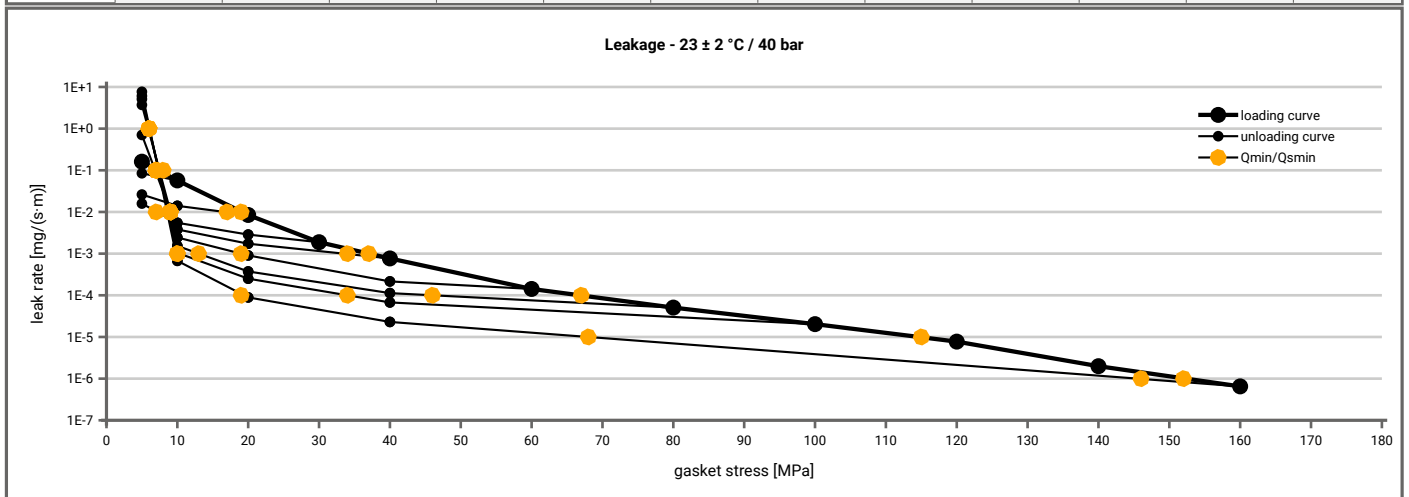


Manufacturer address	IDT Industrie- und Dichtungstechnik GmbH, Adlerstraße 18, 45307 Essen, DE	According to DIN EN 13555 2005-2
Product name	IDT-KD10-20-30 WS 1.4571/3803	
Product dimensions	69 x 53 x 5 mm (DIN EN 1514-6 2004-3)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ bar ($T = 23 \pm 2$ °C)												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5.4$ [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]	$Q_A = 121$ [MPa]	$Q_A = 141$ [MPa]	$Q_A = 161$ [MPa]
1E-0	5		5	6	6	6	6	5	6			6
1E-1	5		5	6	6	6	6	5	6			6
1E-2	11			6	6	6	6	5	6			6
1E-3	29				25	10	6	5	6			7
1E-4	54						40	30	23			12
1E-5	97								93			38
1E-6	139											112
1E-7												
1E-8												



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °C)												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5.2$ [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]	$Q_A = 141$ [MPa]	$Q_A = 161$ [MPa]
1E+1	5		5	5	5	5	6	6	5			6
1E-0	5		5	5	5	5	6	7	7			7
1E-1	8		5	5	5	7	8	8	8			8
1E-2	19			17	8	10	10	9	9			9
1E-3	37					34	19	14	11			10
1E-4	67							47	35			20
1E-5	115											69
1E-6	153											146
1E-7												
1E-8												



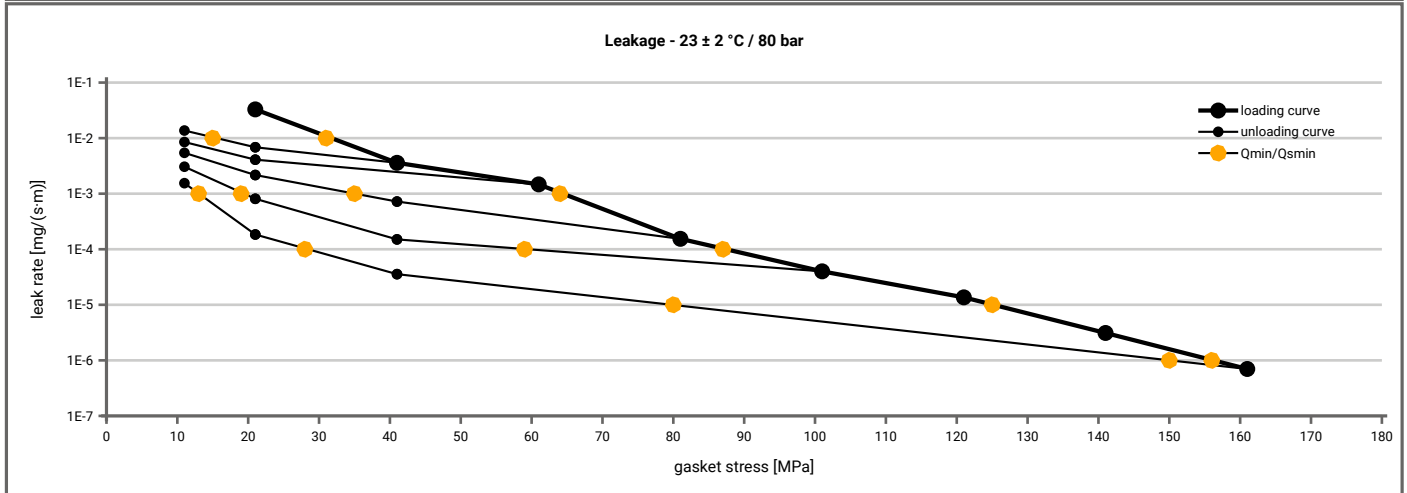
Note: the content of darkened cells was not determined respectively is unnecessary

Rev.-No.: 1

Creation date of this sheet: 2012-06-18

Manufacturer address	IDT Industrie- und Dichtungstechnik GmbH, Adlerstraße 18, 45307 Essen, DE	According to DIN EN 13555 2005-2
Product name	IDT-KD10-20-30 WS 1.4571/3803	
Product dimensions	69 x 53 x 5 mm (DIN EN 1514-6 2004-3)	

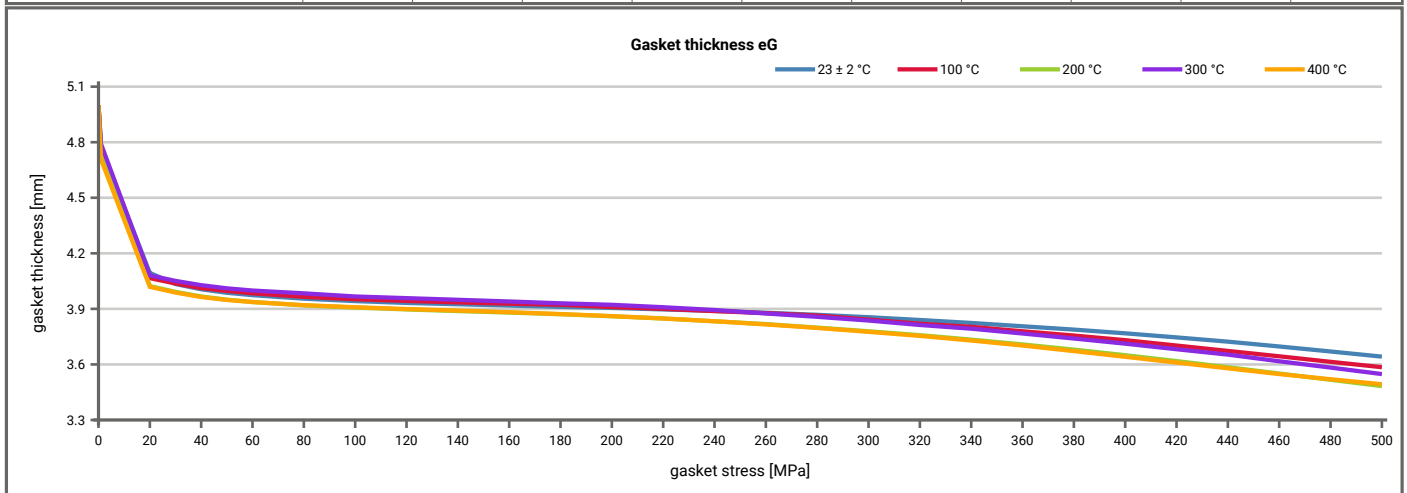
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 80$ bar ($T = 23 \pm 2$ °C)									
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]							
		$Q_A = 21$ [MPa]	$Q_A = 41$ [MPa]	$Q_A = 61$ [MPa]	$Q_A = 81$ [MPa]	$Q_A = 101$ [MPa]	$Q_A = 121$ [MPa]	$Q_A = 141$ [MPa]	$Q_A = 161$ [MPa]
1E-0	21		11	11	11	11			11
1E-1	21		11	11	11	11			11
1E-2	32		16	11	11	11			11
1E-3	65				35	20			13
1E-4	88					60			29
1E-5	125								80
1E-6	156								150
1E-7									
1E-8									



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Product name	IDT-KD10-20-30 WS 1.4571/3803	
Product dimensions	69 x 53 x 5 mm (DIN EN 1514-6 2004-3)	

Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [200 °C]		Temperature 3 [300 °C]		Temperature 4 [400 °C]	
	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]
Stress level 1 [30 MPa]	0.94	6	0.78	21	0.72	26	0.59	38	0.53	44
Stress level 2 [50 MPa]	0.97	5	0.91	15	0.83	27	0.76	38	0.63	57
Stress level 3 [90 MPa]	0.99	3	0.95	14	0.90	29	0.88	34	0.81	54
Stress level 4 [150 MPa]	1.00	2	0.97	16	0.94	28	0.93	32	0.91	44
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.99	15	0.97	46	0.95	84	0.94	100	0.92	130
Q_{smax}	500 MPa		500 MPa		500 MPa		500 MPa		500 MPa	

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		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	0	5.000	0	5.000	0	5.000	0	5.000	0	5.000
1	0	4.768	0	4.726	0	4.769	0	4.790	0	4.706
20	4494	4.094	3559	4.066	5687	4.023	7006	4.081	4299	4.019
30	6916	4.034	11626	4.037	7936	3.992	10768	4.051	8492	3.988
40	8876	4.006	9555	4.012	9869	3.967	16497	4.028	12673	3.964
50	11386	3.987	12696	3.997	12323	3.950	12943	4.011	16992	3.948
60	13578	3.974	12577	3.984	13963	3.937	14410	3.999	19830	3.937
80	19664	3.955	16591	3.965	19060	3.919	21265	3.984	24122	3.920
100	25757	3.942	22078	3.952	23042	3.907	18325	3.967	28102	3.909
120	31137	3.932	25042	3.943	27304	3.897	28208	3.958	30848	3.899
140	37501	3.925	29931	3.935	30329	3.888	29690	3.949	33723	3.891
160	42401	3.918	37383	3.928	33792	3.880	31347	3.940	35826	3.882
180	47361	3.911	47784	3.922	37799	3.871	37251	3.930	40067	3.872
200	52278	3.905	40633	3.910	42177	3.860	48551	3.922	40339	3.861
220	58273	3.897	39823	3.900	45527	3.848	50347	3.909	45151	3.848
240	63132	3.889	38163	3.888	48298	3.833	47232	3.894	50080	3.833
260	67524	3.879	48611	3.877	52295	3.818	51827	3.875	50437	3.816
280	71797	3.868	84247	3.864	53907	3.799	51386	3.857	53066	3.797
300	76653	3.855	45951	3.842	56598	3.779	62938	3.837	55918	3.776
320	83994	3.840	34665	3.820	59884	3.758	54931	3.813	58205	3.754
340	92166	3.824	54663	3.803	64167	3.734	71544	3.793	60936	3.729
360	100337	3.806	67690	3.779	67218	3.708	81341	3.767	64998	3.702
380	110857	3.788	64936	3.756	71531	3.680	68148	3.740	66096	3.672
400	121721	3.768	97986	3.731	74611	3.650	91889	3.712	68617	3.641
420	131018	3.746	73660	3.702	77019	3.618	116026	3.682	72585	3.610
440	138135	3.723	73249	3.673	82567	3.585	123237	3.653	74745	3.579
460	142610	3.697	94386	3.644	88163	3.551	109961	3.617	76094	3.548
480	153473	3.670	90514	3.614	91090	3.517	119086	3.583	80998	3.520
500	165038	3.642	167191	3.585	98758	3.483	119268	3.548	84064	3.493



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