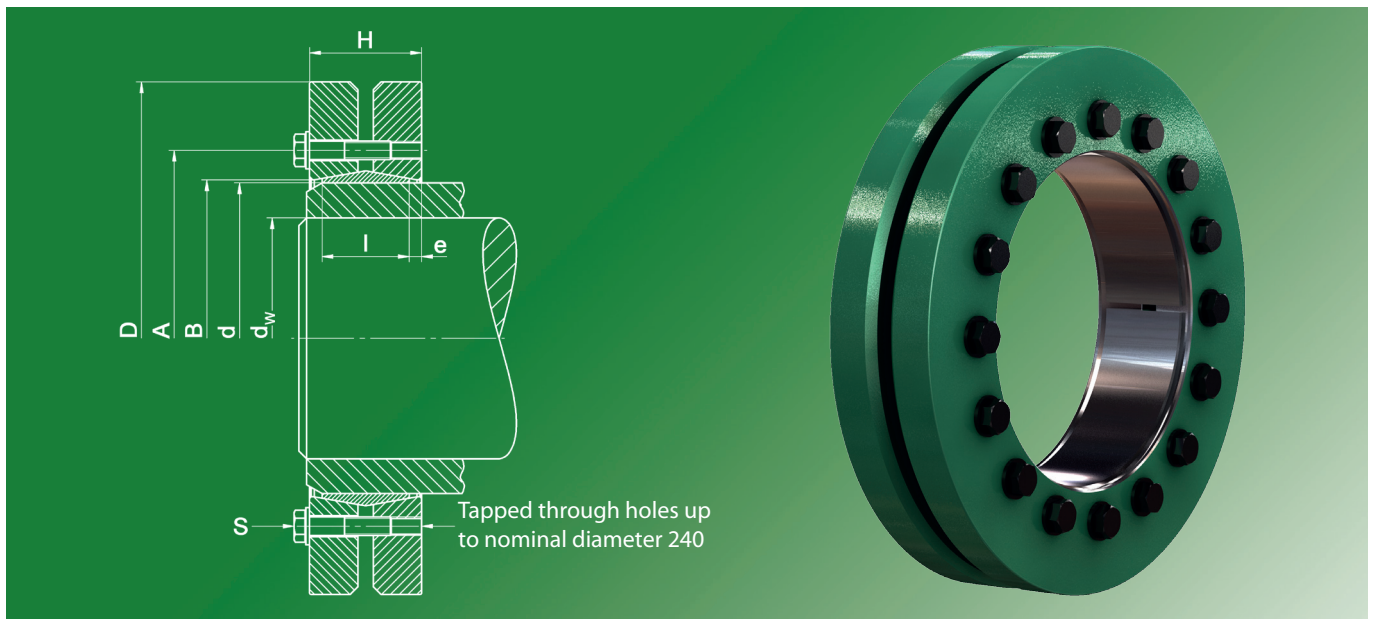
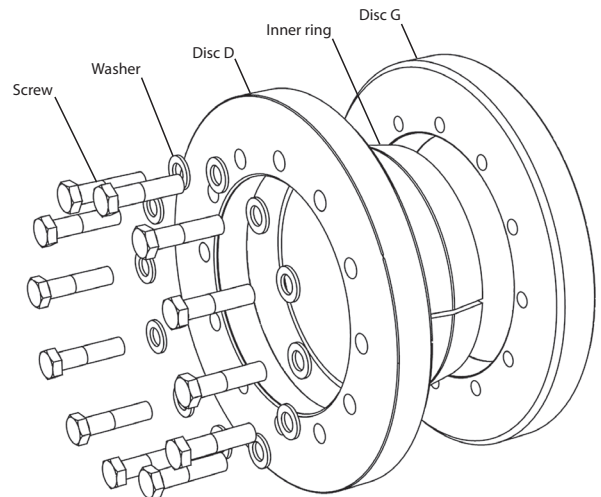




Used symbols

d	[mm]	Nominal diameter of the shrink disc
d_w	[mm]	Shaft diameter
M_{max}	[mm]	Maximal transmittable torque
D	[mm]	Outer diameter
l	[mm]	Length of the inner ring
e	[mm]	Excess length
H	[mm]	Width of the shrink disc
A	[mm]	Pitch circle diameter
B	[mm]	Attachment size
M_A	[Nm]	Tightening torque of the clamping screws
Z		Number of clamping screws
S		Size of the clamping screws
n_{max}	[min ⁻¹]	Permitted rotational frequency
p_N	[N/mm ²]	Moderate pressure to the hub
I	[kgm ²]	Moment of inertia



Design of the shrink disc

$d < 140$ - Discs galvanized - without washers

$d \geq 140$ - Discs painted - with washers

Dimensions **H** & **e** in unlocked position

Hexagon head bolts are used as standard.

Upon request we provide all sized shrink discs with hexagon socket head bolts (Inbus). (See ordering information)

Variation from the standard shaft diameter d_w

> mm	≤ mm	minimal - mm	maximal + mm
100	170	-5	5
170	230	-10	5
230	320	-10	10
320	480	-15	10
480	510	-20	10

$$M = M_{max (Catalog)} \frac{d_w (target)}{d_w (Catalog)}$$

(see Basics - Calculation)

min. yield strength $R_{p0.2}$	N/mm ²
Solid shaft	290
Hub	350

Ordering information: TAS 3051 - d (e.g.: TAS 3051-200 ... further sizes on request)
with Inbus: TAS 3051 - d - Inbus (e.g.: TAS 3051-200-Inbus)

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Light-Range

<i>d</i> mm	<i>d_w</i> mm	<i>M_{max}</i> Nm	<i>D</i> mm	<i>l</i> mm	<i>e</i> mm	<i>H</i> mm	<i>A</i> mm	<i>B</i> mm	<i>M_A</i> Nm	<i>Z</i> Stk	<i>S</i>	<i>DIN</i>	<i>Class</i>	<i>n_{max}</i> min ⁻¹	<i>p_N</i> N/mm ²	<i>I</i> kgm ²	<i>Weight</i> kg
120	100	11900	185	39	6	51	158	129	59	8	M 10 x 40	931	10.9	3000	169	0,0328219	5,4
125	100	10900	185	39	6	51	158	129	59	8	M 10 x 40	931	10.9	3000	163	0,0317794	5,1
140	120	17300	220	39	6	51	175	144	59	9	M 10 x 40	931	10.9	2600	163	0,0663000	7,8
155	135	24800	245	39	6	51	192	159	59	11	M 10 x 40	931	10.9	2300	180	0,1029612	9,8
165	140	33100	260	46	8	62	210	169	100	10	M 12 x 50	931	10.9	2200	190	0,1540906	13
175	150	40000	275	46	8	62	220	179	100	11	M 12 x 50	931	10.9	2000	198	0,1859375	14
185	160	47000	295	46	8	62	225	189	100	12	M 12 x 50	931	10.9	1900	204	0,2576562	17
195	170	63400	315	56	8	72	237	199	100	15	M 12 x 55	931	10.9	1800	199	0,3945938	23
200	180	75700	330	56	8	72	242	204	100	16	M 12 x 55	931	10.9	1700	207	0,4839250	26
220	190	96500	345	66	9	84	265	224	250	10	M 16 x 70	931	10.9	1600	205	0,6487719	31
240	210	132000	370	66	9	84	290	244	250	12	M 16 x 70	931	10.9	1500	226	0,8509	35
260	230	172000	395	72	10	92	310	265	250	14	M 16 x 70	931	10.9	1400	223	1,2299	44
280	240	196000	425	84	10	104	333	285	250	16	M 16 x 75	931	10.9	1300	203	1,8779	58
300	260	243000	460	84	10	104	358	305	250	18	M 16 x 75	931	10.9	1200	213	2,6013	69
320	280	297000	495	84	11	106	378	325	250	20	M 16 x 75	931	10.9	1100	222	3,6914	85
340	300	339000	535	84	11	106	402	345	250	21	M 16 x 75	931	10.9	1000	219	5,0730	101
350	300	388000	545	100	11	122	413	360	490	16	M 20 x 90	931	10.9	1000	213	6,0831	116
360	310	404000	555	100	11	122	423	365	490	16	M 20 x 90	931	10.9	1000	207	6,5097	119
380	330	487000	585	112	12	136	442	387	490	18	M 20 x 100	931	10.9	970	197	8,94	147
390	340	564000	595	112	12	136	452	397	490	20	M 20 x 100	931	10.9	960	214	9,49	150
400	350	614000	615	112	12	136	462	407	490	21	M 20 x 100	931	10.9	930	219	10,90	162
420	360	643000	630	120	12	144	485	427	490	22	M 20 x 100	931	10.9	900	204	12,47	174
440	380	751000	660	120	12	144	505	447	490	24	M 20 x 100	931	10.9	860	212	15,02	191
460	400	934000	685	132	13	158	527	468	490	28	M 20 x 110	931	10.9	830	215	19,23	226
480	420	981000	715	132	13	158	547	488	490	28	M 20 x 110	931	10.9	800	206	22,80	246
500	440	1113000	750	132	13	158	567	508	490	30	M 20 x 110	931	10.9	760	212	27,83	274
530	470	1319000	800	150	12,5	175	600	540	490	33	M 20 x 120	931	10.9	710	194	39,83	346
560	500	1550000	850	150	12,5	175	630	570	490	36	M 20 x 120	931	10.9	670	200	51,03	394
590	530	1652000	870	150	12,5	175	676	602	490	36	M 20 x 130	931	10.9	650	190	54,42	394
620	560	1759000	880	150	12,5	175	686	624	490	36	M 20 x 130	931	10.9	650	181	54,46	376