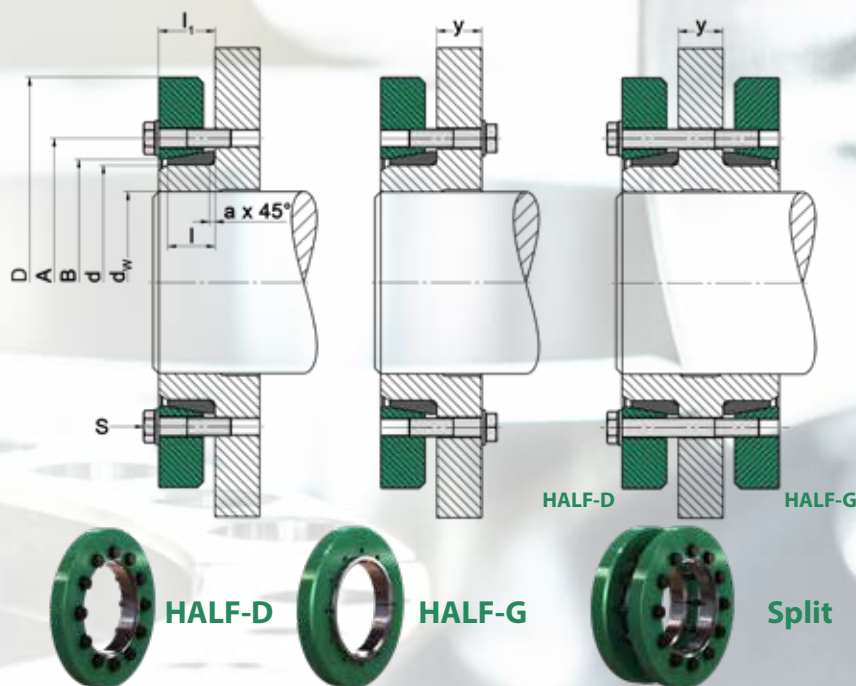


3071 Half/Split (Standard-Range)



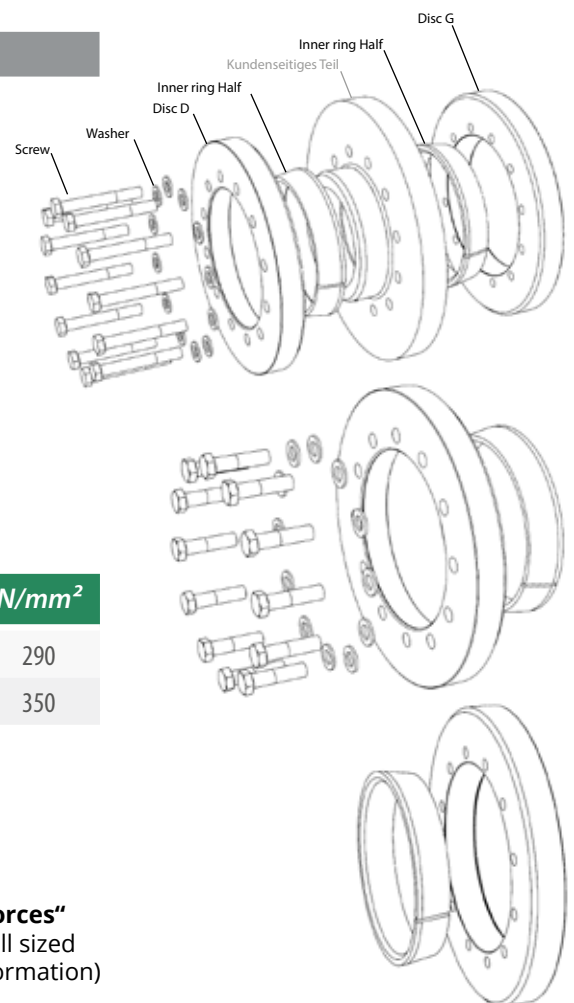
Used symbols

d	[mm]	Nominal diameter of the shrink disc
d_w	[mm]	Shaft diameter
M_{max}	[Nm]	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]	Average Pressure to the hub
I	[kgm ²]	Moment of inertia

Design of the shrink disc

$d < 115$	Discs galvanized without washers
$d \geq 115$	Discs painted with washers

min. yield strength Rp0,2	N/mm ²
Solid shaft	290
Hub	350



Dimensions H & e in unlocked position

Deviation from the standard shaft diameter d_w see the table „3071 Standard-Range“ and „Calculation of transmissible torques and forces“

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

Ordering information: TAS 3071Typ - d - y (z.B.: TAS 3071GET-200-Y60 oder TAS 3071HALB-G-200-Y30 oder TAS 3071HALB-D-200)
with Inbus: TAS 3071Typ - d - y - Inbus (z.B.: TAS 3071GET-200-Y60-Inbus u.s.w.)

3071 Half/Split (Standard-Range)

Please note:

All values refer to shrink disk design **HALF!** Please provide us the dimension of „y“ or the length of screws. Otherwise we can not provide appropriate screws! (see ordering information)

Applies to shrink disc design HALF-G:

- The required screw length is: Screw length **(3071 Standard-Range)** - $l_1 + 2 a + y$ (rounded up to standard lengths)

Applies to shrink disc design SPLIT:

- The design consists of 1x HALF-D + 1x HALF-G
- Delivery is possible with or without screws
- Maximum transmittable torque: $M_{ges} = 2 M_{max}$
- The required screw length: Screw length **(3071 Standard-Range)** + $2 a + y$ (rounded up to standard lengths)

											HALF-D only							
d mm	d _w mm	M _{max} Nm	D mm	l mm	a mm	l ₁ mm	A mm	B mm	M _A Nm	Z Stk	d _B mm	S	DIN	Class	n _{max} min ⁻¹	p _N N/mm ²	I kgm ²	Weight kg
14	11	14	37	6	0,8	7,5	24	15	2,4	3	4,5	M 4 x 12	933	10.9	15400	257	0,0000078	0,04
16	13	39	41	7,5	0,8	9	27	17	4,8	3	5,5	M 5 x 14	933	10.9	13900	282	0,0000121	0,05
18	15	59	43	7,5	0,8	9	29	19	4,8	4	5,5	M 5 x 14	933	8.8	13300	285	0,0000163	0,06
20	17	110	48	8,5	1,5	11,25	34	24	6	5	5,5	M 5 x 18	933	10.9	11900	322	0,0000304	0,09
21	18	120	48	8,5	1,5	11,25	34	24	6	5	5,5	M 5 x 18	933	10.9	11900	307	0,0000309	0,09
22	19	120	48	8,5	1,5	11,25	36	26	6	5	5,5	M 5 x 18	933	10.9	11900	293	0,0000314	0,09
24	20	150	50	9	1,5	11,5	36	26	6	6	5,5	M 5 x 18	933	10.9	11400	322	0,0000366	0,09
30	25	180	60	10	2	12,75	44	32	6	6	5,5	M 5 x 18	931	10.9	9500	225	0,0000844	0,15
36	30	320	72	11	2	13,75	52	38	12	5	6,6	M 6 x 20	933	10.9	7900	231	0,0001944	0,24
38	31	450	80	12	2	15	56	41	12	7	6,6	M 6 x 22	933	10.9	7100	275	0,0003334	0,34
40	32	370	75	11,5	2	14,25	57	43	12	6	6,6	M 6 x 22	933	10.9	7600	236	0,0002438	0,27
41	33	470	80	12	2	14,75	61	46	12	7	6,6	M 6 x 22	933	10.9	7100	255	0,0003232	0,32
44	35	480	80	12	2	14,75	61	47	12	7	6,6	M 6 x 22	933	10.9	7100	238	0,0003126	0,30
50	40	640	90	13	2	16	70	53	12	8	6,6	M 6 x 25	933	10.9	6300	217	0,0005432	0,41
55	45	750	100	14	2,5	17,75	75	58	12	8	6,6	M 6 x 25	933	10.9	5700	189	0,0009118	0,56
62	50	1000	110	14	2,5	17,75	86	66	12	10	6,6	M 6 x 25	933	10.9	5200	210	0,0013154	0,66
68	55	1100	115	14	2,5	17,75	86	72	12	10	6,6	M 6 x 25	933	10.9	4900	191	0,0015395	0,69
75	60	1800	138	16,5	3	20,25	100	79	30	7	9	M 8 x 30	933	10.9	4100	233	0,0037004	1,2
80	65	2000	145	16,5	3	20,25	100	84	30	7	9	M 8 x 30	933	10.9	3900	218	0,0044566	1,3
90	70	3000	155	20	4	24,5	114	94	30	10	9	M 8 x 35	931	10.9	3600	231	0,0068266	1,7
100	75	3600	170	22	4	27	124	104	30	12	9	M 8 x 35	931	10.9	3300	220	0,0106975	2,2
110	80	4400	185	24,5	4	30	136	114	59	9	11	M 10 x 40	931	10.9	3000	208	0,0173719	3,0
115	80	4600	200	25	4	30	150	124	59	10	11	M 10 x 40	931	10.9	2800	215	0,0239512	3,6
120	85	4800	200	25	4	30	150	124	59	10	11	M 10 x 40	931	10.9	2800	206	0,0238000	3,5
125	90	6500	215	26	5	32	160	134	59	12	11	M 10 x 45	931	10.9	2600	226	0,0332444	4,3
140	100	8900	230	28	5	35,25	175	146	100	10	13,5	M 12 x 50	931	10.9	2400	224	0,0480312	5,3
155	110	11900	265	30	5	37,25	192	165	100	12	13,5	M 12 x 50	931	10.9	2100	224	0,0942500	8,0
165	120	19300	290	33	5	40,5	210	175	250	8	17,5	M 16 x 55	931	10.9	1900	258	0,1530719	11
175	130	21300	300	33	5	40,5	220	185	250	8	17,5	M 16 x 55	931	10.9	1900	243	0,1658594	11

3071 Half/Split (Standard-Range)

											HALF-D only							
<i>d</i> mm	<i>d_w</i> mm	<i>M_{max}</i> Nm	<i>D</i> mm	<i>l</i> mm	<i>a</i> mm	<i>l₁</i> mm	<i>A</i> mm	<i>B</i> mm	<i>M_A</i> Nm	<i>Z</i> Stk	<i>d_B</i> mm	<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
185	140	29500	330	40,5	5	48	236	195	250	10	17,5	M 16 x 70	931	10.9	1700	227	0,3220312	18
195	150	39700	350	40,5	5	48	246	210	250	12	17,5	M 16 x 70	931	10.9	1600	258	0,4013125	20
200	155	40800	350	40,5	5	48	246	210	250	12	17,5	M 16 x 70	931	10.9	1600	252	0,3859375	19
220	165	51800	370	52	8	60	270	230	250	15	17,5	M 16 x 80	931	10.9	1500	231	0,6022250	26
240	180	72400	405	54	8	62,5	295	248	490	12	22	M 20 x 90	931	10.9	1400	254	0,8865000	32
245	185	73900	410	55,5	8	63,5	298	251	490	12	22	M 20 x 90	931	10.9	1300	241	0,9410156	33
260	190	85300	440	59,5	8	68	321	268	490	14	22	M 20 x 90	931	10.9	1300	244	1,3713	42
280	210	112000	460	67	10	77	346	288	490	16	22	M 20 x 100	931	10.9	1200	234	1,7762	49
300	230	143000	485	71	10	81	364	308	490	18	22	M 20 x 100	931	10.9	1100	230	2,3172	57
320	240	163000	520	71	10	81	386	328	490	20	22	M 20 x 100	931	10.9	1100	239	3,0756	66
340	250	163000	570	77	10	88	408	348	490	24	22	M 20 x 110	931	10.9	1000	205	5,0658	92
350	270	228000	580	80	10	91	432	358	490	24	22	M 20 x 110	931	10.9	980	229	5,5068	96
360	290	259000	590	80	10	91	432	368	490	24	22	M 20 x 110	931	10.9	970	222	5,8518	98
380	300	317000	645	85	13	97	458	387	840	20	26	M 24 x 120	931	10.9	880	245	8,8967	127
390	310	348000	660	85	13	97	468	397	840	21	26	M 24 x 120	931	10.9	860	251	9,7705	133
400	320	361000	680	85	13	97	480	407	840	21	26	M 24 x 120	931	10.9	840	245	11,05	142
420	340	445000	690	95	13	107	504	427	840	24	26	M 24 x 130	931	10.9	830	234	12,97	159
440	350	445000	750	101,5	13	114	527	447	840	24	26	M 24 x 140	931	10.9	760	207	19,56	207
460	370	478000	770	101,5	13	114	547	468	840	28	26	M 24 x 140	931	10.9	740	198	21,52	214
480	390	599000	800	109	15	121,5	570	488	840	30	26	M 24 x 150	931	10.9	710	208	26,44	243
500	410	715000	850	109	15	121,5	590	508	1250	24	30	M 27 x 150	931	10.9	670	225	34,04	280
530	440	980000	900	122,5	15	135	620	538	1250	30	30	M 27 x 170	931	10.9	630	232	46,77	343
560	460	1082000	950	122,5	15	135	650	568	1250	32	30	M 27 x 170	931	10.9	600	234	58,07	382
590	480	1257000	980	132,5	15	147,5	685	600	1250	36	30	M 27 x 180	931	10.9	580	229	71,15	435
620	510	1428000	1020	132,5	15	147,5	715	630	1250	38	30	M 27 x 180	931	10.9	560	230	82,99	466
660	540	1838000	1100	145	15	160	760	670	1700	38	33	M 30 x 200	931	10.9	520	238	123	598
700	580	2116000	1200	145	15	160	800	710	1700	40	33	M 30 x 200	931	10.9	470	236	177	733
720	600	2319000	1230	145	15	160	820	730	1700	42	33	M 30 x 200	931	10.9	460	241	195	767
750	620	2483000	1230	155	15	172,5	855	762	1700	44	33	M 30 x 220	931	10.9	460	225	210	810
800	660	2750000	1310	155	15	172,5	905	812	1700	46	33	M 30 x 220	931	10.9	430	220	270	917
850	700	3161000	1330	170	15	187,5	965	862	1700	50	33	M 30 x 230	931	10.9	430	204	302	969
900	740	3475000	1400	170	15	187,5	1015	912	1700	52	33	M 30 x 230	931	10.9	400	200	369	1065
950	780	4210000	1550	185	15	205	1075	962	2800	42	39	M 36 x 250	931	10.9	370	199	643	1556
1000	820	5281000	1620	185	15	205	1125	1012	2800	50	39	M 36 x 250	931	10.9	350	225	763	1685