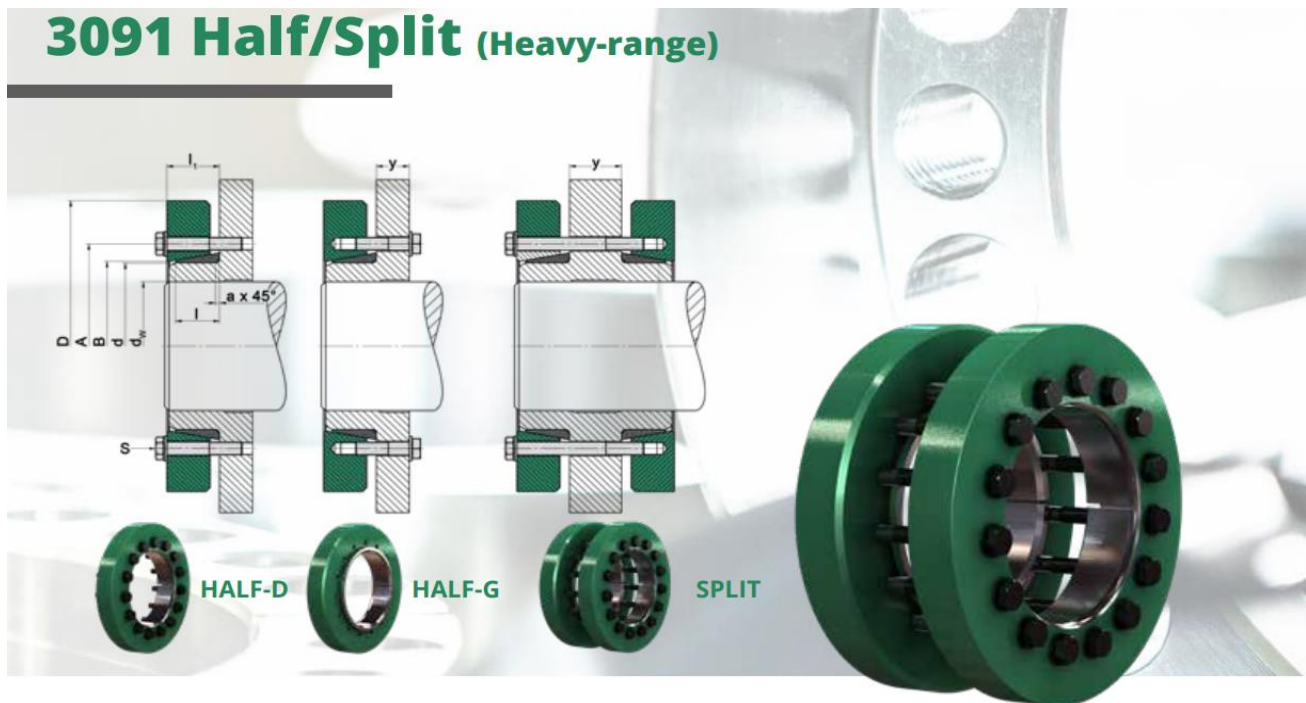


3091 Half/Split (Heavy-range)



Used symbols (使用される記号)

d	[mm]	Nominal diameter of the shrink disc (シュリンクディスク内径)
dW	[mm]	Shaft diameter (軸径)
M _{max}	[mm]	Maximal transmittable torque (伝達トルク)
D	[mm]	Outer diameter (シュリンクディスク外径)
ℓ	[mm]	Length of the bush (内輪高さ)
e	[mm]	Excess length (余長 (約))
H	[mm]	Width of the shrink disc (シュリンクディスク高さ)
A	[mm]	Pitch circle diameter (ボルトピッチ形)
B	[mm]	Attachment size (外輪内径)
M _A	[Nm]	Tightening torque of the clamping screws (ボルト締付トルク)
Z		Number of clamping screws (ボルト数)
S		Size of the clamping screws (ボルトサイズ)
n _{max}	[min ⁻¹]	Permitted rotational frequency (最大許容回転数)
P _N	[N/mm ²]	Moderate pressure to the hub (中空軸 面圧 (中間値))
I	[kgm ²]	Moment of inertia (慣性モーメント)

Design of the shrink disc (シュリンクディスクのデザイン)

d < 115	Discs galvanized - without washers (外輪亜鉛メッキ、ワッシャなし)
d ≥ 115	Discs painted - with washers (外輪塗装、ワッシャあり)

Dimensions H & e in unlocked position (H,e寸法は、無負荷時)

Hexagon head bolts are used as standard. Upon request we provide all sized shrink discs with hexagon socket head bolts (Inbus). (六角ボルト(標準)、六角穴付ボルト(対応可能))

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

(軸 降伏応力最小値)

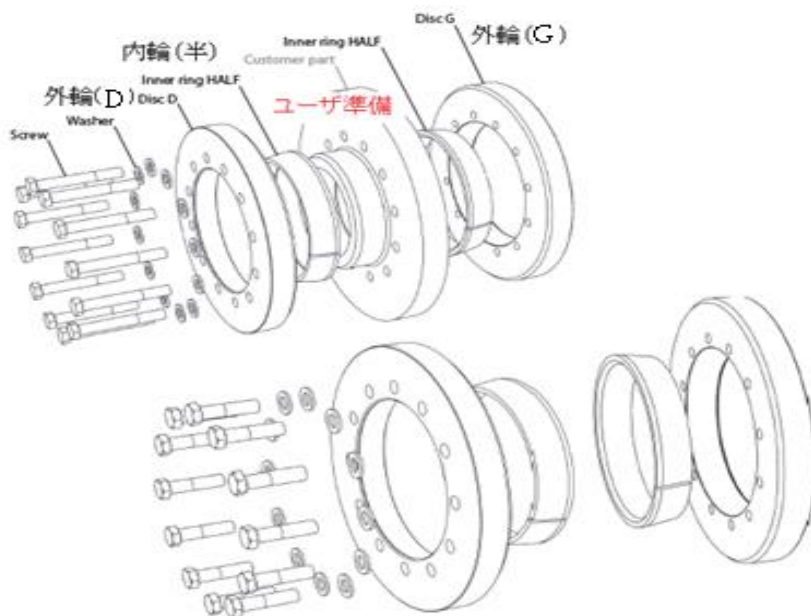
(中空軸 降伏応力最小値)

Ordering information: TAS 3091Typ - d - y (e.g.: TAS 3091GET-200-Y60
oder TAS 3091HALB-G-200-Y30 oder TAS 3091HALB-D-200)

with Inbus: TAS 3091Typ - d - y - Inbus (e.g.: TAS 3091GET-200-Y60-Inbus e.t.c.)

(型番指定例 : TAS 3091**GET**-200-Y60 or TAS 3091**HALB**-G-200-Y30 or
TAS 3091**HALB**-D-200)

(GETはスプリットです。HALB=HALF でも構いません。詳細は問合せください。)



標準シャフト径dw からの派生対応領域

dw径		minimal	maximal
>	≤	-	+
mm	mm	mm	mm
40	50	-3	2
50	140	-5	5
140	180	-10	5
180	320	-15	10
320	440	-20	10
440	600	-30	10

$$M = M_{max (Catalog)} \left(\frac{d_{W (target)}}{d_{W (Catalog)}} \right)^2$$

(see Basics - Calculation)

Please note: (ご注意下さい)

All values refer to shrink disk design HALF! (ハーフ選択時)

Please provide us the dimension of „y“ or the length of screws.

Otherwise we can not provide appropriate screws! (y寸法をかならず教えてください)

Applies to shrink disc design HALF-G: (外輪G選択時)

- The required screw length is: Screw length (必要ボルト長さは以下)
(3091 Standard-Range) - $l_1 + 2 a + y$ (rounded up to standard lengths)

Applies to shrink disc design SPLIT: (スプリット選択時)

- The design consists of 1x HALF-D + 1x HALF-G (Dタイプ: 1set + Gタイプ: 1set)
- Delivery is possible with or without screws (ボルト付き/無指定)
- Maximum transmittable torque: $M_{ges} = 2 M_{max}$ (MTは下記表Mmaxの2倍)
- The required screw length:
Screw length(3091 Standard-Range) + $2 a + y$ (rounded up to standard lengths)

《寸法性能表》

以下、標準サイズ表示(表記以外のものでも、対応可否検討しますのでお問い合わせください。)

HALF-D ONLY															nmax	P _N	I	Weight	
d	dW	Mmax	D	ℓ	a	l ₁	A	B	M _A	Z	d _B	S	DIN	Class					min-1
mm	mm	Nm	mm	mm	mm	mm	mm	mm	Nm	Stk	mm								
40	30	440	80	14.5	2	18	62	43	30	4	9	M8x30	933	10.9	7100	249	0.00041	0.41	
44	34	670	85	16	2	19	66	47	30	5	9	M8x30	933	10.9	6700	253	0.0005611	0.49	
50	40	960	95	17	2	21.5	73	54	30	7	9	M8x35	933	10.9	6000	233	0.0009796	0.68	
55	45	1300	105	17.5	2.5	22	78	59	30	7	9	M8x35	933	10.9	5400	238	0.0014752	0.84	
62	50	1600	115	17.5	2.5	22	85	66	30	7	9	M8x35	933	10.9	4900	235	0.0021336	1	
68	55	1900	120	17.5	2.5	22	92	72	30	8	9	M8x35	933	10.9	4700	244	0.002378	1	
75	60	2900	145	22	4	27	105	84	59	7	11	M10x40	933	10.9	4100	257	0.0052422	1.7	
80	65	3300	145	22	4	27	105	84	59	7	11	M10x40	933	10.9	3900	241	0.0061706	1.8	
90	70	3800	160	25	4	30	116	94	59	8	11	M10x40	933	10.9	3500	220	0.01011	2.4	
100	75	4900	170	27	4	32	126	104	59	10	11	M10x45	931	10.9	3300	225	0.0131288	2.7	
110	80	6000	185	30	5	35	138	114	59	12	11	M10x45	931	10.9	3000	216	0.0208462	3.6	
120	85	7100	210	32.5	5	37.5	155	125	100	10	13.5	M12x50	931	10.9	2700	219	0.0372938	5.1	
125	90	7800	215	32.5	5	37.5	160	129	100	10	13.5	M12x50	931	10.9	2600	210	0.0409756	5.3	
140	10	10500	230	35	5	42	175	144	100	12	13.5	M12x55	931	10.9	2400	207	0.0598125	6.6	
155	110	14700	265	38	5	45	198	164	100	15	13.5	M12x60	931	10.9	2100	212	0.1178125	10	
165	120	24000	290	41	5	49	210	174	250	10	17.5	M16x70	931	10.9	1900	251	0.1809031	13	
175	130	26500	300	41	5	49	220	184	250	10	17.5	M16x70	931	10.9	1900	237	0.2110938	14	
185	140	41700	330	51	5	61	236	194	250	14	17.5	M16x80	931	10.9	1700	245	0.4114844	23	
200	150	47700	350	51	5	61	246	204	250	15	17.5	M16x80	931	10.9	1600	243	0.5078125	25	
220	165	69300	370	65	8	75	270	224	250	20	17.5	M16x90	931	10.9	1500	238	0.7643625	33	
240	180	90100	405	68	8	80	295	244	490	15	22	M20x100	931	10.9	1400	243	1.1912	43	
260	200	123000	430	76	8	88	321	265	490	18	22	M20x110	931	10.9	1300	238	1.6412	52	
280	220	165000	460	84	10	96	346	285	490	21	22	M20x120	931	10.9	1200	237	2.32	64	
300	240	194000	485	86	10	98	364	305	490	22	22	M20x120	931	10.9	1100	225	2.927	72	
320	250	214000	520	90	10	102	386	325	490	24	22	M20x130	931	10.9	1100	219	3.961	85	
340	260	273000	570	98	10	110	420	345	840	21	26	M24x140	931	10.9	1000	236	6.5524	119	
350	280	313000	580	98	10	110	425	355	840	21	26	M24x140	931	10.9	980	229	6.9409	121	
360	290	343000	590	100	10	112	432	365	840	22	26	M24x140	931	10.9	970	228	7.4044	124	
380	305	345000	645	103	13	115	458	387	840	22	26	M24x140	931	10.9	880	216	10.79	154	
390	310	394000	660	107	13	119	468	397	840	24	26	M24x150	931	10.9	860	220	12.34	168	
400	320	408000	680	107	13	119	480	407	840	24	26	M24x150	931	10.9	840	214	13.93	179	
420	340	555000	690	120	13	132	504	427	840	30	26	M24x160	931	10.9	830	224	16.72	205	
440	350	586000	750	125	13	139	527	448	1250	24	30	M27x170	931	10.9	760	215	24.76	262	
460	370	741000	770	125	13	139	547	468	1250	28	30	M27x170	931	10.9	740	240	27.25	271	
480	390	847000	800	138	15	152	580	488	1250	30	30	M27x180	931	10.9	710	224	35.25	324	
500	410	955000	850	138	15	152	600	508	1250	32	30	M27x180	931	10.9	670	229	45.34	373	
530	440	1103000	910	152.5	15	166.5	630	538	1250	34	30	M27x200	931	10.9	630	206	65.15	470	
660	540	2058000	1070	170	15	185	780	670	2800	30	39	M36x240	931	10.9	530	224	132	666	