

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)
Mmax	[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 ℓ)
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)
d1	[mm]	Attachment size (外輪 内径)
MA	[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)
nmax	[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)

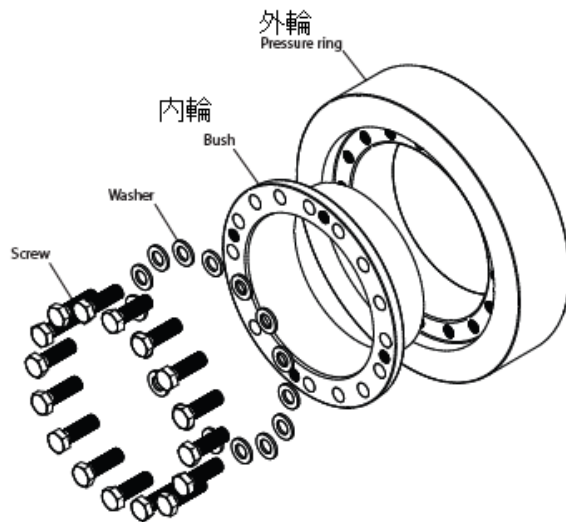
d < 120	Discs galvanized - without washers (亜鉛メッキ、ワッシャなし)
d ≥ 120	Discs painted - with washers
d ≥ 195	Cone of bush not slit (コーン部にスリットなし)

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

min. yield strength Rp0,2	N/mm ²
Solid shaft	350
Hub	450

(軸 降伏応力最小値)

(中空軸 降伏応力最小値)



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
10	30	-1	1
30	50	-3	2
50	140	-5	5
140	180	-10	5
180	320	-15	10
320	500	-20	10
500	700	-30	20

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

(see Basics - Calculation)

《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。)

d	dW	Mmax	D	ℓ	e	H	A	d1	MA	Z	S	DIN	Class	nmax	P _N	I	Weight
mm	mm	Nm	mm	mm	mm	mm	mm	mm	Nm	Stk				min-1	N/mm2	kgm2	kg
24	20	275	50	16	2	18	36	26	14	4	M6x16	933	12.9	11459	387	0.0001	0.19
30	25	570	60	18	2	20	44	32	14	6	M6x16	933	12.9	9549	400	0.0002	0.3
36	30	880	72	20	2	22	52	38	35	5	M8x20	933	12.9	7958	564	0.0004	0.47
38	32	910	72	20	2	22	53	40	35	5	M8x20	933	12.9	7958	536	0.0004	0.45
44	35	960	80	22	2	24	61	47	35	5	M8x20	933	12.9	7162	398	0.0006	0.59
50	40	1700	90	23.5	2.5	26	68	53	35	7	M8x20	933	12.9	6366	451	0.0011	0.81
55	45	2000	99.3	26	3	29	72	58	35	6	M8x20	933	12.9	5770	316	0.0018	1.11
62	50	2400	110	26	3	29	80	66	35	8	M8x20	933	12.9	5209	371	0.0027	1.34
68	55	3000	115	26	3	29	86	72	35	9	M8x20	933	12.9	4982	384	0.0031	1.4
75	60	4600	138	27	4	31	100	79	69	8	M10x25	933	12.9	4152	496	0.0070	2.28
80	65	5200	138	27	4	31	104	84	69	8	M10x25	933	12.9	4152	467	0.0068	2.15
85	68	6700	155	34	4	38	114	94	69	10	M10x30	933	12.9	3697	396	0.014	3.53
90	70	7100	155	34	4	38	114	94	69	10	M10x30	933	12.9	3697	396	0.013	3.35
100	75	8800	170	39	4	43	124	104	69	12	M10x30	933	12.9	3370	357	0.022	4.54
105	80	12600	185	44	5	49	136	114	120	10	M12x30	933	12.9	3097	360	0.036	6.42
110	85	14600	185	44	5	49	136	114	120	10	M12x30	933	12.9	3097	360	0.035	6.12
125	95	18700	215	47.5	5.5	53	160	134	120	12	M12x35	933	12.9	2665	333	0.070	9.11
130	100	22900	215	47.5	5.5	53	160	134	120	12	M12x35	933	12.9	2665	333	0.069	8.73
135	100	23400	230	52	6	58	173	145	190	10	M14x40	933	12.9	2491	334	0.101	11.4
140	105	23500	230	52	6	58	173	145	190	10	M14x40	933	12.9	2491	334	0.099	10.9
150	110	31300	263	56	6	62	190	164	190	12	M14x40	933	12.9	2179	321	0.186	16.3
155	115	34200	263	56	6	62	190	164	190	12	M14x40	933	12.9	2179	321	0.183	15.7
160	120	38300	263	56	6	62	190	164	190	12	M14x40	933	12.9	2179	321	0.180	15.2
165	125	48300	290	61	7	68	204	175	290	10	M16x45	933	12.9	1976	349	0.304	21.9
175	135	58200	300	60	8	68	214	185	290	12	M16x50	933	12.9	1910	405	0.344	22.8
185	145	82000	330	77	8	85	224	194	290	14	M16x50	933	12.9	1736	326	0.646	36.1
195	150	98200	350	77	8	85	240	205	290	16	M16x50	933	12.9	1637	353	0.815	40.6
200	155	102000	350	77	8	85	240	205	290	16	M16x50	933	12.9	1637	353	0.806	39.7
220	165	134000	370	94	10	104	270	226	570	16	M20x60	933	12.9	1549	401	1.208	52.1
240	180	172000	405	97	10	107	296	246	570	18	M20x60	933	12.9	1415	400	1.808	65.3
260	200	226000	430	109	10	119	318	266	570	21	M20x60	933	12.9	1332	373	2.526	80
280	220	295000	460	124	10	134	340	287	570	22	M20x60	933	12.9	1246	315	3.672	101
300	230	367000	485	132	10	142	360	307	980	20	M24x70	933	12.9	1181	379	4.756	117
320	250	410000	520	133	10	143	380	327	980	21	M24x70	933	12.9	1102	374	6.283	135
340	260	525000	570	146	12	158	402	348	980	22	M24x80	931	12.9	1005	327	10.253	186
360	280	553000	590	150	12	162	424	368	980	21	M24x80	931	12.9	971	285	11.921	200
380	290	636000	635	149	14	163	448	388	1450	18	M27x80	933	12.9	902	303	16.561	242
390	300	666700	650	152	14	166	458	398	1450	18	M27x80	933	12.9	881	296	18.154	253
400	310	769000	660	158	15	173	475	410	1450	20	M27x80	931	12.9	868	299	20.351	273
420	330	868000	690	171	15	186	495	430	1450	21	M27x80	931	12.9	830	278	25.715	315
440	350	1081000	740	181	15	196	516	448	1450	24	M27x80	931	12.9	774	285	36.376	393
460	370	1214000	770	181	15	196	536	468	1450	25	M27x80	933	12.9	744	285	42.527	423
480	390	1393000	800	201	15	216	556	488	1450	27	M27x80	933	12.9	716	262	54.381	500
500	410	1525000	850	201	15	216	580	510	1450	28	M27x80	933	12.9	674	260	70.091	577
530	440	1960000	910	226	15	241	616	538	1950	27	M30x90	931	12.9	630	257	102.597	740

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d	dW	Mmax	D	ℓ	e	H	A	d1	MA	Z	S	DIN	Class	nmax	P _N	I	Weight
mm	mm	Nm	mm	mm	mm	mm	mm	mm	Nm	Stk				min-1	N/mm ²	kgm ²	kg
560	460	2457000	1000	223	22	245	646	568	1950	28	M30x90	931	12.9	610	293	152.439	928
590	480	2524000	1000	240	23	263	670	598	1950	28	M30x100	931	12.9	597	257	160.466	953
620	510	3018000	1020	268	28	296	716	630	1950	28	M30x100	931	12.9	562	241	189.625	1065
640	530	2805000	1020	269	18	287	736	650	1950	28	M30x100	931	12.9	562	208	185.566	1024
660	550	3356000	1070	270	22	292	770	670	2600	28	M33x110	931	12.9	535	230	229.122	1160