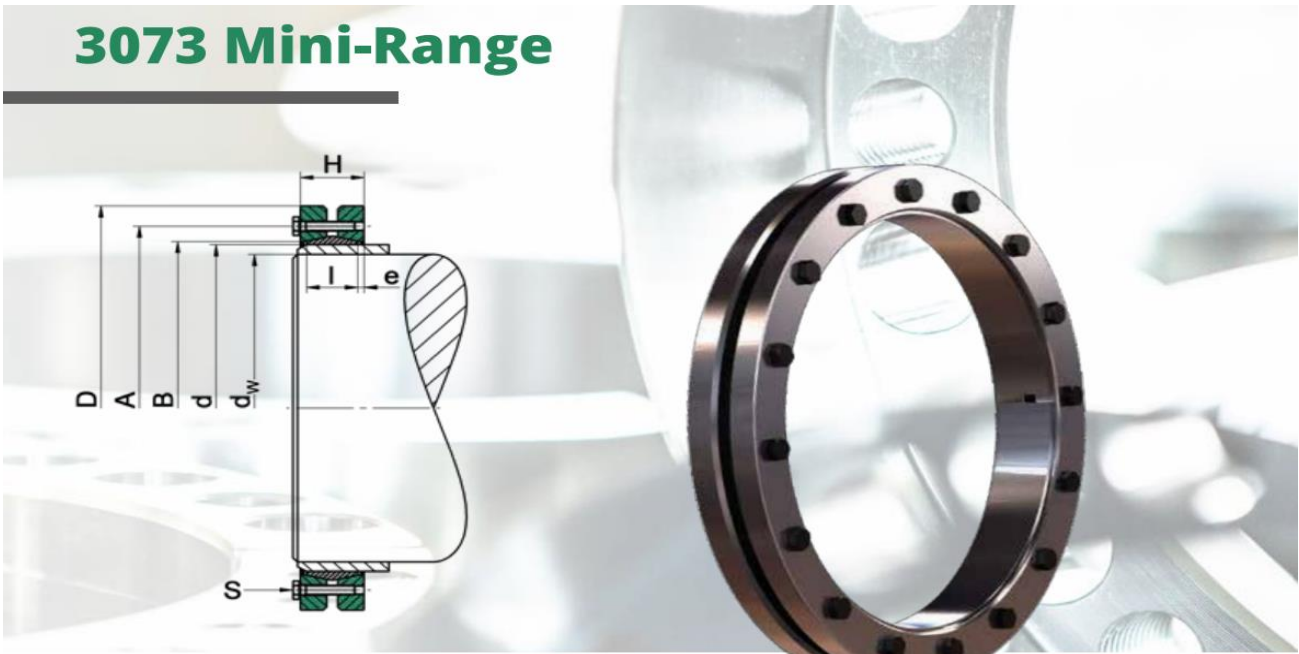


3073 Mini-Range



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)
d _w	[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)

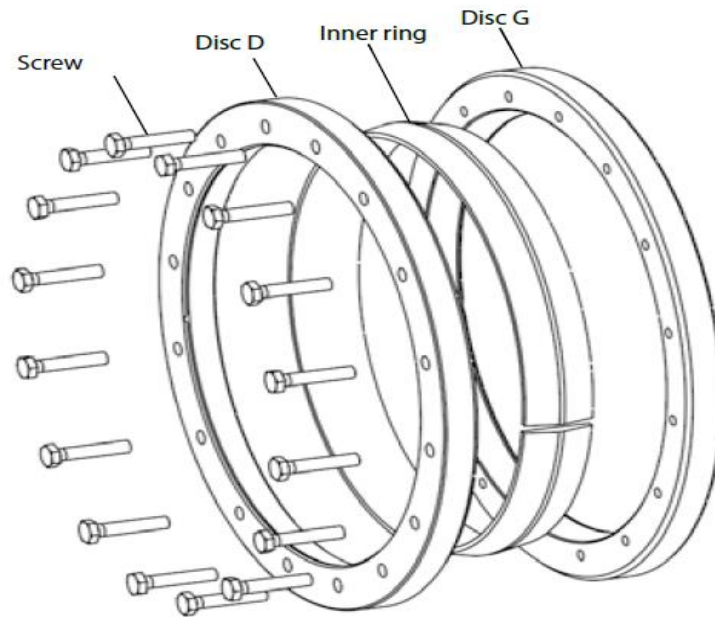
Discs galvanized - without washers (外輪亜鉛メッキ、ワッシャなし)

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	290
Hub	350

(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 d_w からの派生対応領域

dw径		minimal	maximal
>	≤	-	+
mm	mm	mm	mm
20	60	-2	1
60	100	-2	2
100	160	-3	2
160	220	-4	2
220	300	-5	2

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

(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	B	M _A	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
20	18	78	47	10	2	14	34	22	3	4	M5x14	933	8.8	12100	155	0.000042	0.13
24	20	80	52	10	2.5	15	39.5	26	3	5	M5x14	933	8.8	11000	161	0.000070	0.17
25	21	88	56	10	2.5	15	43	30	3	5	M5x14	933	8.8	10200	155	0.000094	0.2
28	24	110	56	10	2.5	15	43	30	3	5	M5x14	933	8.8	10200	138	0.000093	0.19
29	25	110	58	10	2.5	15	44.5	31.5	3	5	M5x14	933	8.8	9800	133	0.000105	0.2
30	26	120	58	10	2.5	15	44.5	31.5	3	5	M5x14	933	8.8	9800	129	0.000107	0.2
31	28	160	60	10	2.5	15	46	33	3	5	M5x14	933	8.8	9500	125	0.000120	0.21
35	30	180	64	10	2.5	15	50	36.5	3	6	M5x14	933	8.8	8900	133	0.000153	0.23
36	31	170	66	10	2.5	15	52	38.5	3	6	M5x14	933	8.8	8600	129	0.000177	0.25
37	32	180	66	10	2.5	15	52	38.5	3	6	M5x14	933	8.8	8600	125	0.000172	0.24
38	33	290	68	10	2.5	15	55	41.5	4	6	M5x14	933	8.8	8400	163	0.000197	0.26
40	35	310	68	10	2.5	15	55	41.5	4	6	M5x14	933	8.8	8400	155	0.000187	0.24
42	37	370	75	14	2.5	19	58	44	4	7	M5x16	933	8.8	7600	123	0.000351	0.38
46	40	460	80	14	2.5	19	63	49	4	8	M5x16	933	8.8	7100	128	0.000447	0.42
47	42	530	80	14	2.5	19	63	49	4	8	M5x16	933	8.8	7100	125	0.000441	0.41
48	43	550	86	14	2.5	19	68.5	53.5	4	8	M5x16	933	8.8	6600	123	0.000606	0.5
51	45	550	86	14	2.5	19	68.5	53.5	4	8	M5x16	933	8.8	6600	115	0.000587	0.47
55	49	710	91	14	2.5	19	73	59	4	9	M5x16	933	8.8	6200	120	0.000735	0.52
56	50	730	91	14	2.5	19	73	59	4	9	M5x16	933	8.8	6200	118	0.0007278	0.51
58	52	710	93	14	2.5	19	74	60	4	9	M5x16	933	8.8	6100	114	0.0007808	0.52
59	53	840	96	14	2.5	19	77	63	4	10	M5x16	933	8.8	5900	125	0.0009047	0.57
60	54	860	96	14	2.5	19	77	63	4	10	M5x16	933	8.8	5900	123	0.0008811	0.55
61	55	880	96	14	2.5	19	77	63	4	10	M5x16	933	8.8	5900	121	0.0008732	0.54
65	59	970	100	14	2.5	19	82	68	4	10	M5x16	933	8.8	5700	113	0.0010135	0.57
66	60	990	100	14	2.5	19	82	68	4	10	M5x16	933	8.8	5700	112	0.0010049	0.56
69	63	1500	105	18	3	24	87	73	6	10	M5x20	933	10.9	5400	117	0.0015194	0.77
70	65	1600	110	18	3	24	90	76	6	10	M5x20	933	10.9	5200	115	0.0018912	0.89
72	67	1600	110	18	3	24	90	76	6	10	M5x20	933	10.9	5200	112	0.0018364	0.85
73	68	1700	110	18	3	24	90	76	6	10	M5x20	933	10.9	5200	110	0.00183	0.84
75	70	1700	114	18	3	24	93	78.5	6	10	M5x20	933	10.9	5000	107	0.0021181	0.91
78	70	1900	120	18	3	24	101	86	6	12	M5x20	933	10.9	4700	124	0.0025605	1
81	73	2000	120	18	3	24	101	86	6	12	M5x20	933	10.9	4700	119	0.0026201	1
83	75	2100	120	18	3	24	101	86	6	12	M5x20	933	10.9	4700	116	0.0024748	0.93
85	77	2400	128	22	3	28	105	88.5	12	8	M6x25	933	10.9	4400	103	0.0038365	1.3
88	80	2500	130	22	3	28	108	91.5	12	8	M6x25	933	10.9	4400	99	0.0040046	1.3
94	85	2500	140	22	3	28	119	103	12	8	M6x25	933	10.9	4000	93	0.0053318	1.5
95	86	2500	140	22	3	28	119	103	12	8	M6x25	933	10.9	4000	92	0.0053672	1.5
98	90	2800	140	22	3	28	119	103	12	8	M6x25	933	10.9	4000	89	0.0051107	1.4
99	91	2800	140	22	3	28	119	103	12	8	M6x25	933	10.9	4000	88	0.0051452	1.4
100	92	2900	140	22	3	28	119	103	12	8	M6x25	933	10.9	4000	87	0.00518	1.4
103	95	3400	150	22	3	28	128	112	12	9	M6x25	933	10.9	3800	95	0.0070357	1.7
104	96	3500	150	22	3	28	128	112	12	9	M6x25	933	10.9	3800	95	0.0070796	1.7
105	97	3500	150	22	3	28	128	112	12	9	M6x25	933	10.9	3800	94	0.006705	1.6
108	100	3700	150	22	3	28	128	112	12	9	M6x25	933	10.9	3800	91	0.0064058	1.5
112	104	3800	158	22	3	28	135	119	12	9	M6x25	933	10.9	3600	88	0.0084393	1.8

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d	dW	Mmax	D	ℓ	e	H	A	B	M _A	Z	S	DIN	Class	n _{max}	P _N	I	Weight
mm	mm	Nm	mm	mm	mm	mm	mm	mm	Nm	Stk				min-1	N/mm2	kgm2	kg
115	107	4000	158	22	3	28	135	119	12	9	M6x25	933	10.9	3600	85	0.0081152	1.7
120	110	4300	164	25	3.5	32	141	124	12	10	M6x25	933	10.9	3400	80	0.010324	2
125	115	4600	169	25	3.5	32	146	129	12	10	M6x25	933	10.9	3300	77	0.0115988	2.1
130	120	6000	179	25	3.5	32	156	139	12	12	M6x25	933	10.9	3200	89	0.0146823	2.4
135	125	6200	179	25	3.5	32	156	139	12	12	M6x25	933	10.9	3200	85	0.0138232	2.2
138	128	6400	182	25	3.5	32	161	144	12	12	M6x25	933	10.9	3100	84	0.0149983	2.3
140	130	6500	182	25	3.5	32	161	144	12	12	M6x25	933	10.9	3100	82	0.0144991	2.2
145	135	6800	194	25	3.5	32	171	154	12	12	M6x25	933	10.9	2900	80	0.0197981	2.7
150	140	7100	194	25	3.5	32	171	154	12	12	M6x25	933	10.9	2900	77	0.0180408	2.4
160	150	7700	204	25	3.5	32	181	164	12	12	M6x25	933	10.9	2800	72	0.0218452	2.6
166	156	7900	210	25	3.5	32	187	170	12	12	M6x25	933	10.9	2700	69	0.0241839	2.7
167	157	9500	214	25	3.5	32	191	174	12	14	M6x25	933	10.9	2600	81	0.0267108	2.9
170	160	9700	214	25	3.5	32	191	174	12	14	M6x25	933	10.9	2600	79	0.0252099	2.7
173	163	9900	220	25	3.5	32	196	179	12	14	M6x25	933	10.9	2600	78	0.0293734	3
175	165	10100	220	25	3.5	32	196	179	12	14	M6x25	933	10.9	2600	77	0.0286466	2.9
180	170	10400	225	25	3.5	32	201	184	12	14	M6x25	933	10.9	2500	75	0.0300966	2.9
185	175	11600	230	25	3.5	32	206	189	12	15	M6x25	933	10.9	2400	78	0.0326719	3
192	180	11500	240	28	3.5	35	220	201	12	15	M6x30	933	10.9	2300	67	0.0436896	3.7
195	183	11600	240	28	3.5	35	220	201	12	15	M6x30	933	10.9	2300	66	0.0418359	3.5
198	186	12700	250	28	3.5	35	225	206	12	16	M6x30	933	10.9	2200	69	0.0533946	4.2
202	190	13100	250	28	3.5	35	225	206	12	16	M6x30	933	10.9	2200	68	0.0503607	3.9
212	200	13900	260	28	3.5	35	235	216	12	16	M6x30	933	10.9	2200	65	0.0576788	4.1
214	202	16000	270	28	3.5	35	245	226	12	18	M6x30	933	10.9	2100	72	0.0727013	4.9
215	203	16100	270	28	3.5	35	245	226	12	18	M6x30	933	10.9	2100	72	0.071475	4.8
220	208	16600	270	28	3.5	35	245	226	12	18	M6x30	933	10.9	2100	70	0.066715	4.4
222	210	16700	270	28	3.5	35	245	226	12	18	M6x30	933	10.9	2100	70	0.0641466	4.2
230	218	17500	280	28	3.5	35	255	236	12	18	M6x30	933	10.9	2000	67	0.0754975	4.6
232	220	17700	280	28	3.5	35	255	236	12	18	M6x30	933	10.9	2000	67	0.0727232	4.4
235	223	17900	290	28	3.5	35	265	246	12	18	M6x30	933	10.9	1900	66	0.0905613	5.2
236	224	18000	290	28	3.5	35	265	246	12	18	M6x30	933	10.9	1900	65	0.0891199	5.1
242	230	18600	290	28	3.5	35	265	246	12	18	M6x30	933	10.9	1900	64	0.0820318	4.6
252	240	19500	300	28	3.5	35	276	256	12	18	M6x30	933	10.9	1900	61	0.0901836	4.7
257	245	22400	310	28	3.5	35	286	266	12	20	M6x30	933	10.9	1800	67	0.1094506	5.4
262	250	22900	310	28	3.5	35	286	266	12	20	M6x30	933	10.9	1800	66	0.1009057	4.9
266	254	25600	325	28	3.5	35	291	271	12	22	M6x30	933	10.9	1700	71	0.1366953	6.2
278	265	28900	352	32	4	40	304	284	12	24	M6x30	933	10.9	1600	65	0.2389108	9.5
280	267	29200	352	32	4	40	304	286	12	24	M6x30	933	10.9	1600	64	0.2351784	9.3
298	283	30600	370	32	4	40	322	302	12	24	M6x30	933	10.9	1500	60	0.2764874	9.8
300	285	30900	370	32	4	40	324	304	12	24	M6x30	933	10.9	1500	60	0.27228	9.6
310	285	31000	385	32	4	40	334	314	12	26	M6x30	933	10.9	1400	63	0.3359469	11
335	300	51800	410	34	5	44	365	340	30	20	M8x35	933	10.9	1300	88	0.3854469	11
350	320	23700	405	28	4.5	37	375	357	18	15	M8x30	933	10.9	1400	46	0.2650356	7.4
360	330	71400	450	40	5	50	390	366	30	24	M8x40	933	10.9	1200	83	0.747225	18
370	340	53500	455	42	5	52	400	376	30	18	M8x40	933	10.9	1200	58	0.7738312	18
380	340	52000	455	32	6	44	410	386	30	18	M8x30	933	10.9	1200	74	0.6149938	14