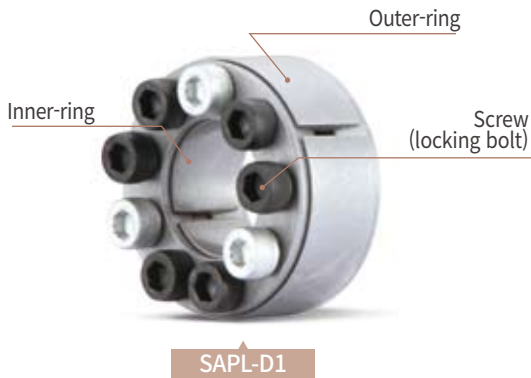


A.P. LOCK : SAPL-D1



Structure and Material for SAPL-D1 Series

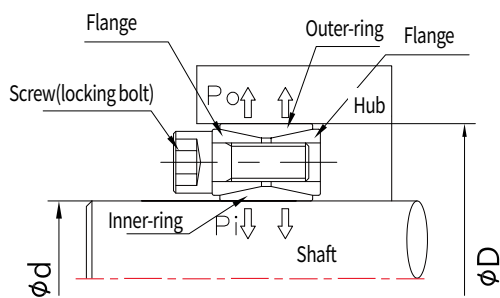
Model	Body (Inner-ring / Outer-ring)		Screw(locking bolt)	
	Material	Surface Treatment	Material	Surface Treatment
SAPL-D1	STEEL	-	SCM435	Black Oxide

※ Please contact Sung-il Customer Service team for eletroless nickel plating surface treatment option for SAPL-D1 Series.

Product Features

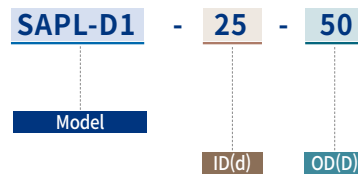
- The most standard clamping structure between shaft and hub
- Relatively higher clamping force
- A wide range of standard inner diameters (from Ø18 to Ø200)
- Recommended tolerance (Shaft's OD: h8, Hub's ID: H8)
- Simple structure for easier installation & handier maintenance

Principles

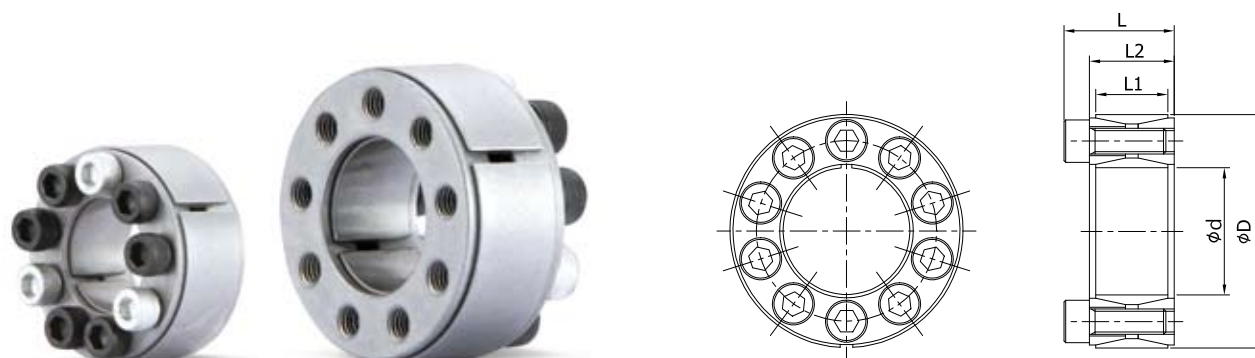


- ※ If more than 2pcs of SAPL-D1 are mounted simultaneously, the clamping force on shaft (permissible torque) becomes higher.
- SAPL-D1/ 1pc mounted: T_c (Max. Permissible Torque)
 - SAPL-D1/ 2pcs mounted : T_c (Max. Permissible Torque) x 1.9
 - SAPL-D1/ 3pcs mounted : T_c (Max. Permissible Torque) x 2.7

How to Order



SAPL-D SERIES : SAPL-D1



Dimensions / Performance

Model d x D	Size (±0.3mm)			Max. Permissible Torque(Tc) (N·m)	Max. Permissible Thrust Load(Pt) (kN)	Surface Pressure (Mpa)		screw(locking bolt)			Mass(g)
	L ₁	L ₂	L			Shaft(Pi)	Hub(Po)	Size	The no. of screws	Fastening Torque(N·m)	
SAPL-D1-18 x 47	17	20	26	240	26.5	210	85	M6x18	8	14.9	200
SAPL-D1-19 x 47	17	20	26	245	26.5	210	85	M6x18	8	14.9	200
SAPL-D1-20 x 47	17	20	26	265	26.5	199	85	M6x18	8	14.9	200
SAPL-D1-22 x 47	17	20	26	294	26.5	181	85	M6x18	8	14.9	190
SAPL-D1-24 x 50	17	20	26	402	33.3	211	101	M6x18	9	14.9	220
SAPL-D1-25 x 50	17	20	26	421	33.3	203	101	M6x18	9	14.9	220
SAPL-D1-28 x 55	17	20	26	470	33.3	180	92	M6x18	10	14.9	220
SAPL-D1-30 x 55	17	20	26	510	33.3	169	92	M6x18	10	14.9	240
SAPL-D1-32 x 60	17	20	26	676	42.1	198	106	M6x18	12	14.9	270
SAPL-D1-35 x 60	17	20	26	745	42.1	181	106	M6x18	12	14.9	270
SAPL-D1-38 x 65	17	20	26	892	47	183	107	M6x18	14	14.9	300
SAPL-D1-40 x 65	17	20	26	941	47	174	107	M6x18	14	14.9	300
SAPL-D1-42 x 75	20	24	32	1490	70.6	214	121	M8x22	12	35	510
SAPL-D1-45 x 75	20	24	32	1600	70.6	200	121	M8x22	12	35	510
SAPL-D1-48 x 80	20	24	32	1700	70.6	188	113	M8x22	12	35	550
SAPL-D1-50 x 80	20	24	32	1770	70.6	180	113	M8x22	12	35	550
SAPL-D1-55 x 85	20	24	32	2390	86.2	201	130	M8x22	14	35	600
SAPL-D1-60 x 90	20	24	32	2610	86.2	184	123	M8x22	14	35	640
SAPL-D1-65 x 95	20	24	32	3228	99	225	154	M8x22	16	35	700
SAPL-D1-70 x 110	24	28	38	4811	138	241	154	M10x25	14	69	1240
SAPL-D1-75 x 115	24	28	38	5154	138	225	147	M10x25	14	69	1290
SAPL-D1-80 x 120	24	28	38	5497	138	212	140	M10x25	14	69	1350
SAPL-D1-85 x 125	24	28	38	6675	158	227	155	M10x25	16	69	1430
SAPL-D1-90 x 130	24	28	38	7069	158	214	149	M10x25	16	69	1500
SAPL-D1-95 x 135	24	28	38	8393	176	229	161	M10x25	18	69	1540
SAPL-D1-100 x 145	26	33	45	10226	204	232	160	M12x30	14	69	2200
SAPL-D1-110 x 155	26	33	45	11248	204	211	149	M12x30	14	123.3	2300
SAPL-D1-120 x 165	26	33	45	14020	234	221	160	M12x30	16	123.3	2400
SAPL-D1-130 x 180	34	38	50	18986	293	195	140	M12x35	20	123.3	3600
SAPL-D1-140 x 190	34	38	50	22494	321	199	147	M12x35	22	123.3	3900
SAPL-D1-150 x 200	34	38	50	26295	351	203	152	M12x35	24	123.3	4000
SAPL-D1-160 x 210	34	38	50	33756	422	229	174	M12x35	26	123.3	4300
SAPL-D1-170 x 225	38	44	58	39483	465	212	160	M14x40	22	187	5700
SAPL-D1-180 x 235	38	44	58	45606	507	218	167	M14x40	24	187	6000
SAPL-D1-190 x 250	46	52	66	56163	591	199	152	M14x45	28	187	8200
SAPL-D1-200 x 260	46	52	66	63342	633	203	156	M14x45	30	187	8600

- Pt(Max. Permissible Thrust Load) indicates values at the zero(0) torque, and Tc(Max. Permissible Torque) at the zero(0) thrust load respectively. In case torque and thrust load occur simultaneously, please refer to the formula in the [Selection guide] page for combined load calculation.
- For the best performance, make sure all foreign substances e.g. corrosion, dust etc. are removed from each surface of shaft, hub, and A.P. Lock's inner and outer ring.