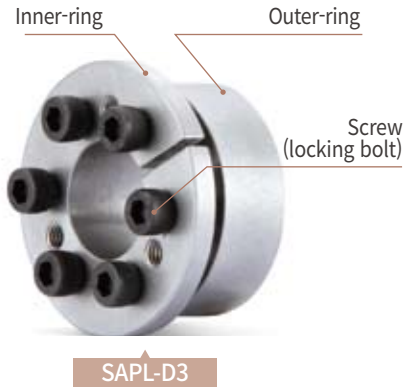


# A.P. LOCK : SAPL-D3



## Structure and Material for SAPL-D3 Series

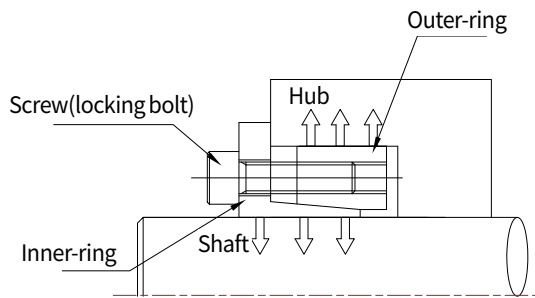
| Model   | Body (Inner-ring / Outer-ring) |                   | Screw(locking bolt) |                   |
|---------|--------------------------------|-------------------|---------------------|-------------------|
|         | Material                       | Surface Treatment | Material            | Surface Treatment |
| SAPL-D3 | STEEL                          | -                 | SCM435              | Black Oxide       |

※ Please contact Sung-il Customer Service team for eletroless nickel plating surface treatment option for SAPL-D3 Series.

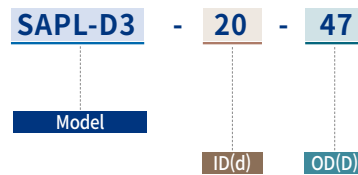
## Product Features

- Equivalent to SAPL-D1 series with the same dimensions (which is the most standard clamping structure between shaft and hub)
- Effective installation with less quantity of fastening screws
- No movement while installed as the flange-shaped part is directly attached to hub surface
- Self-centering function (prevention of slight off-center matters)
- Recommended tolerance (Shaft's OD: h8, Hub's ID: H8)

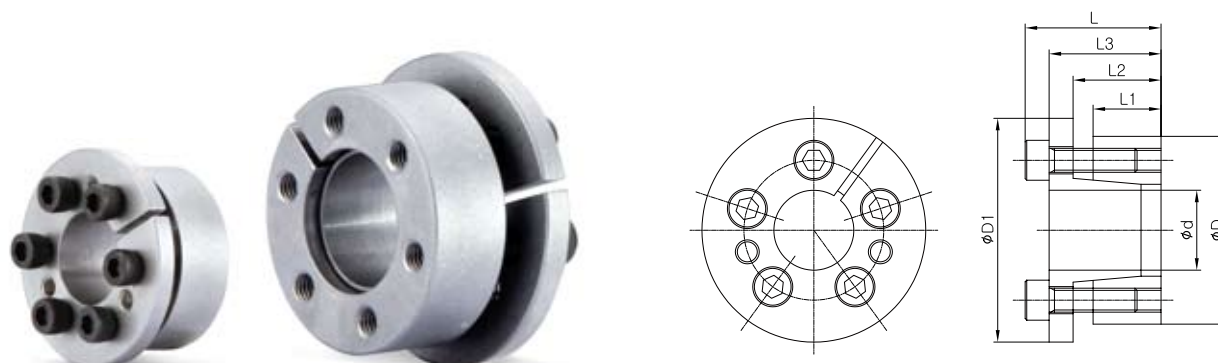
## Principles



## How to Order



# SAPL-D SERIES : SAPL-D3



## Dimensions / Performance

| Model<br>d x D  | Size ( $\pm 0.3\text{mm}$ ) |                |                |                |    | Max.<br>Permissible<br>Torque(Tc)<br>(N·m) | Max. Permissible<br>Thrust Load(Pt)<br>(kN) | Surface Pressure (Mpa) |         | screw(locking bolt) |                      |                          | Mass(g) |
|-----------------|-----------------------------|----------------|----------------|----------------|----|--|---|------------------------|---------|---------------------|----------------------|--------------------------|---------|
|                 | D <sub>1</sub>              | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L  |  |   | Shaft(Pi)              | Hub(Po) | Size                | The no. of<br>screws | Fastening<br>Torque(N·m) |         |
| SAPL-D3-19 x 47 | 56                          | 17             | 22             | 28             | 34 | 243  | 26  | 234                    | 94      | M6x20               | 5                    | 17                       | 300     |
| SAPL-D3-20 x 47 | 56                          | 17             | 22             | 28             | 34 | 256  | 26  | 222                    | 94      | M6x20               | 5                    | 17                       | 300     |
| SAPL-D3-22 x 47 | 56                          | 17             | 22             | 28             | 34 | 282  | 26  | 202                    | 94      | M6x20               | 5                    | 17                       | 300     |
| SAPL-D3-24 x 50 | 59                          | 17             | 22             | 28             | 34 | 368  | 31  | 222                    | 106     | M6x20               | 6                    | 17                       | 300     |
| SAPL-D3-25 x 50 | 59                          | 17             | 22             | 28             | 34 | 383  | 31  | 213                    | 106     | M6x20               | 6                    | 17                       | 300     |
| SAPL-D3-28 x 55 | 64                          | 17             | 22             | 28             | 34 | 429  | 31  | 190                    | 97      | M6x20               | 6                    | 17                       | 400     |
| SAPL-D3-30 x 55 | 64                          | 17             | 22             | 28             | 34 | 460  | 31  | 177                    | 97      | M6x20               | 6                    | 17                       | 400     |
| SAPL-D3-32 x 60 | 69                          | 17             | 22             | 28             | 34 | 655  | 41  | 222                    | 118     | M6x20               | 8                    | 17                       | 400     |
| SAPL-D3-35 x 60 | 69                          | 17             | 22             | 28             | 34 | 716  | 41  | 203                    | 118     | M6x20               | 8                    | 17                       | 400     |
| SAPL-D3-38 x 65 | 74                          | 17             | 22             | 28             | 34 | 778  | 41  | 187                    | 109     | M6x20               | 8                    | 17                       | 500     |
| SAPL-D3-40 x 65 | 74                          | 17             | 22             | 28             | 34 | 819  | 41  | 178                    | 109     | M6x20               | 8                    | 17                       | 500     |
| SAPL-D3-42 x 75 | 84                          | 17             | 25             | 33             | 41 | 1361                                       | 65  | 227                    | 127     | M8x25               | 7                    | 41                       | 800     |
| SAPL-D3-45 x 75 | 84                          | 20             | 25             | 33             | 41 | 1458                                       | 65  | 212                    | 127     | M8x25               | 7                    | 41                       | 700     |
| SAPL-D3-48 x 80 | 89                          | 20             | 25             | 33             | 41 | 1550                                       | 65  | 200                    | 123     | M8x25               | 7                    | 41                       | 800     |
| SAPL-D3-50 x 80 | 89                          | 20             | 25             | 33             | 41 | 1620                                       | 65  | 191                    | 119     | M8x25               | 7                    | 41                       | 800     |
| SAPL-D3-55 x 85 | 94                          | 20             | 25             | 33             | 41 | 2037                                       | 74  | 199                    | 129     | M8x25               | 8                    | 41                       | 900     |
| SAPL-D3-60 x 90 | 99                          | 20             | 25             | 33             | 41 | 2223                                       | 74  | 182                    | 121     | M8x25               | 8                    | 41                       | 900     |

- 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.