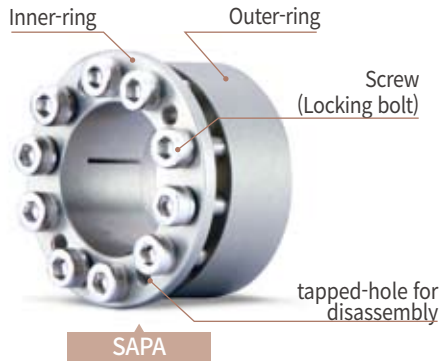


A.P. LOCK : SAPA SERIES



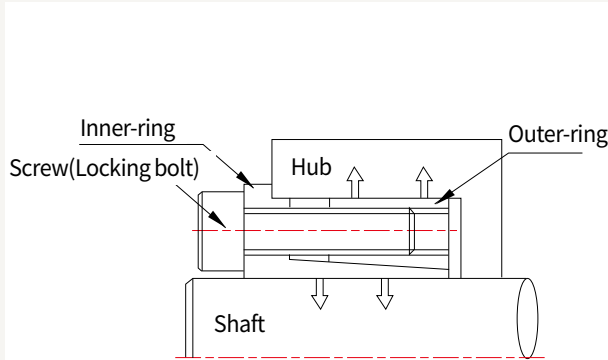
Structure and Material for SAPA Series

| Model | Body (Inner-ring / Outer-ring) | | Screw(Locking bolt) | |
|-------|--------------------------------|-------------------|---------------------|----------------------------|
| | Material | Surface Treatment | Material | Surface Treatment |
| SAPA | AL-7075-T6 | Anodizing | SCM435 | Electroless Nickel Plating |

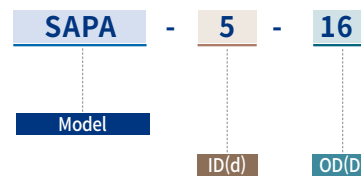
Product Features

- Excellent for high rotating application (AL-Alloy Material has lower moment of inertia)
- Designed to suit not only AL-Alloy pulleys but also steel ones with higher surface pressure comparing to SAPC series
- Designed to suit clean rooms with high corrosion resistance
- Exactly identical dimensions with SAPL-A Series
- Self-centering function (prevention of slight off-center matters)

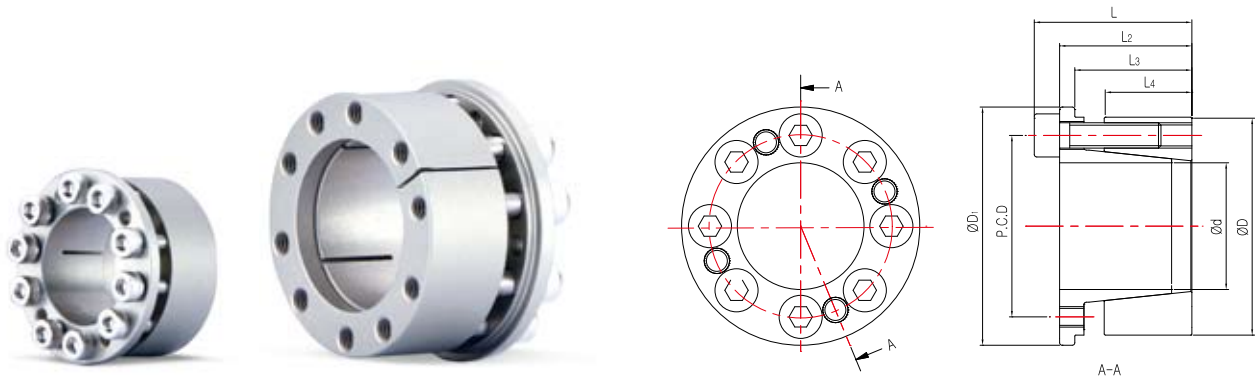
Principles



How to Order



SAPA SERIES : SAPA



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 | L ₂ | L ₃ | L ₄ | D ₁ | P.C.D | | | Shaft(Pi) | Hub(Po) | Size | The no. of screws | Fastening Torque(N·m) | |
| SAPA-5-16 | 16 | 13 | 11.2 | 8 | 18.5 | 11.7 | 6 | 2.24 | 197 | 64 | M3 | 4 | 2.3 | 7 |
| SAPA-6-19 | 18.3 | 14.3 | 12.3 | 9 | 21.5 | 14 | 11 | 3.74 | 285 | 92 | M4 | 4 | 5.1 | 10 |
| SAPA-8-21 | 18.6 | 14.6 | 12.6 | 9.3 | 23.5 | 15.4 | 18 | 4.48 | 214 | 96 | M4 | 4 | 5.1 | 13 |
| SAPA-10-23 | 18.8 | 14.8 | 12.8 | 9.5 | 25.5 | 17.5 | 20 | 4.48 | 167 | 86 | M4 | 4 | 5.1 | 15 |
| SAPA-11-24 | 19.8 | 15.8 | 13.8 | 10.5 | 26.5 | 18.4 | 24 | 4.48 | 153 | 83 | M4 | 4 | 5.1 | 17 |
| SAPA-12-26 | 22 | 18 | 15.5 | 10.5 | 28.5 | 20.2 | 40 | 6.73 | 209 | 103 | M4 | 6 | 5.1 | 20 |
| SAPA-14-28 | 22 | 18 | 15.5 | 10.5 | 30.5 | 22.2 | 52 | 7.57 | 202 | 108 | M4 | 6 | 5.1 | 23 |
| SAPA-15-29 | 23 | 19 | 16.5 | 11.5 | 31.5 | 23.2 | 56 | 7.57 | 167 | 95 | M4 | 6 | 5.1 | 25 |
| SAPA-16-30 | 23.6 | 19.6 | 17.1 | 12 | 33 | 24.2 | 60 | 7.57 | 149 | 88 | M4 | 6 | 5.1 | 28 |
| SAPA-17-31 | 24.1 | 20.1 | 17.6 | 12.5 | 33.5 | 25.4 | 88 | 10.08 | 177 | 109 | M4 | 8 | 5.1 | 28 |
| SAPA-18-32 | 24.1 | 20.1 | 17.6 | 12.5 | 34.5 | 26.4 | 92 | 10.08 | 167 | 106 | M4 | 8 | 5.1 | 30 |
| SAPA-19-33 | 24.1 | 20.1 | 17.6 | 12.5 | 35.5 | 27.4 | 96 | 10.08 | 159 | 102 | M4 | 8 | 5.1 | 31 |
| SAPA-20-38 | 29.1 | 24.1 | 21.1 | 15.3 | 42 | 30.8 | 176 | 17.28 | 186 | 111 | M5 | 8 | 10 | 53 |
| SAPA-22-40 | 29.1 | 24.1 | 21.1 | 15.3 | 44 | 32.8 | 232 | 20.8 | 204 | 126 | M5 | 8 | 10 | 60 |
| SAPA-24-42 | 30.1 | 25.1 | 22.1 | 16.3 | 46 | 34.8 | 256 | 20.8 | 173 | 113 | M5 | 8 | 10 | 65 |
| SAPA-25-43 | 31.1 | 26.1 | 23.1 | 17.3 | 47 | 35.8 | 270 | 21.76 | 172 | 109 | M5 | 8 | 10 | 68 |
| SAPA-28-46 | 31.6 | 26.6 | 23.1 | 17.3 | 50 | 38.8 | 290 | 21.6 | 153 | 101 | M5 | 10 | 10 | 71 |
| SAPA-30-48 | 31.6 | 26.6 | 23.1 | 17.3 | 52 | 40.8 | 320 | 21.6 | 142 | 97 | M5 | 10 | 10 | 76 |
| SAPA-32-50 | 32.6 | 27.6 | 24.1 | 18.3 | 54 | 42.8 | 352 | 21.6 | 124 | 88 | M5 | 10 | 10 | 80 |
| SAPA-35-57 | 36 | 30 | 26 | 19.5 | 62 | 48.4 | 576 | 32.88 | 195 | 132 | M6 | 8 | 18 | 117 |

- 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.