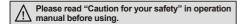
# Flexible coupling

### Features

- Zero(0) Backlash
- High torsional stiffness by high strength aluminum alloy AL 7075-T6
- High corrosion resistance by alumite treated surface
- Two connection types(Clamp type, Set screw type)

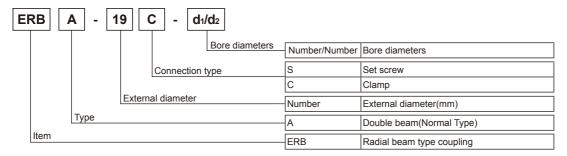


# NEW ERB-A-26C Autonics O

# Applications

 Stepper motor, Servo motor, Precision motor, high-precision encoder, dynamometer driver, high speed/precision position control system

# Ordering information



# Specifications

| Model   |                          | ERB-A-19C- □                                  | ERB-A-19S- □     | ERB-A-26C- □                           | ERB-A-26S- □ |  |  |
|---|--------------------------|---|------------------|--|--------------|--|--|
| Connection type                               |                          | Clamp   | Set screw        | Clamp                                  | Set screw    |  |  |
| Max. revolutions                              |                          | 8000rpm                                       | 8000rpm 20000rpm |  | 15000 rpm    |  |  |
| Max. torque                                   |                          | 1.2 N·m(12.17 kgf·cm)                         |                  | 3.0 N·m(30.42 kgf·cm)                  |              |  |  |
| Rated torque  Mounting bolt (Mounting torque) |                          | 0.6 N·m(6.08 kgf·cm)                          |                  | 1.5 N·m(15.21 kgf·cm)                  |              |  |  |
|   |                          | M2.5(1N·m) M3(0.7N·m)                         |                  | M3(1.7N·m)                             | M4(1.7N·m)   |  |  |
| Torsional stiffness                           |                          | 140 N·m/rad                                   |                  | 240 N·m/rad                            |              |  |  |
| Moment of inertia                             |                          | 6.4×10 <sup>-7</sup> kg·m <sup>2</sup>        |                  | 3.4×10 <sup>-6</sup> kg·m <sup>2</sup> |              |  |  |
| Max.<br>allowable<br>misalign-<br>ment        | Angular<br>misalignment  | 2.5°  |                  |  |              |  |  |
|   | Parallel<br>misalignment | 0.15mm  |                  | 0.2mm                                  |              |  |  |
|   | End-play                 | ±0.3mm  |                  | ±0.4mm                                 |              |  |  |
| Standard bore diameter (tolerance h7)         |                          | ø4, ø5, ø6mm                                  |                  | ø6, ø8mm                               |              |  |  |
| Min. allowable bore diameter                  |                          | ø4mm  |                  | ø5mm                                   |              |  |  |
| Max. allowable bore diameter                  |                          | ø8mm  |                  | ø12mm                                  |              |  |  |
| Material                                      |                          | Aluminum(AL 7075-T6), Alumite treated surface |                  | ·                                      |              |  |  |
| Unit weight                                   |                          | 12g   |                  | 33g                                    |              |  |  |

(A) Photo electric

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

(F) Rotary encoder

(G) Connector/ Socket

Temp. controller

(I) SSR/ Power controller

(J) Counter

L)

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

> O) Sensor controller

(P) Switching mode power supply

Stepper motor& Driver&Controller (R) Graphic/ Logic panel

S) Field network

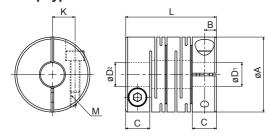
T)

(U) Other

Autonics F-71

### Dimensions

### O Clamp type



ØA L ØD<sub>1</sub> ØD<sub>2</sub> M C B K

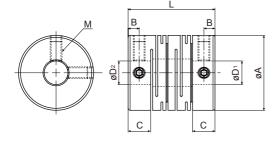
4 \*6.018 5 \*6.018

(unit: mm)

| ERB-A-19C-04/04 |    |      |                 | 4 +0.018 |        |     |     |      | l |
|-----------------|----|------|-----------------|----------|--------|-----|-----|------|---|
| ERB-A-19C-04/05 |    | 23   | 4 *0.018        | 5 +0.018 | M2.5 6 | 6.1 | 3   | 5.75 |   |
| ERB-A-19C-04/06 | 19 |      |                 | 6 +0.018 |        |     |     |      |   |
| ERB-A-19C-05/05 |    |      | 5 +0.018        | 5 +0.018 |        |     |     |      |   |
| ERB-A-19C-05/06 |    |      |                 | 6 *0.018 |        |     |     |      |   |
| ERB-A-19C-06/06 |    |      | 6 0 0 0 0 0 0 0 |          |        |     |     |      |   |
| ERB-A-26C-06/06 |    |      | 6 +0.018        | 6 +0.018 |        |     |     |      | l |
| ERB-A-26C-06/08 | 26 | 31.4 | 0 5000          | 8 *0.018 | М3     | 7.4 | 3.7 | 8.55 |   |
| ERB-A-26C-08/08 |    |      | 8 +0.018        | 8 55.5   |        |     |     |      |   |

Model

### Set screw type



| Model           | øΑ | L  | øD₁                 | øD <sub>2</sub> | М   | С   | В   |
|-----------------|----|----|---------------------|-----------------|-----|-----|-----|
| ERB-A-19S-04/04 | 19 | 22 | 4 <sup>+0.018</sup> | 4+0.018         | ∙M3 | 5.7 | 2.8 |
| ERB-A-19S-04/05 |    |    |                     | 5+0.018         |     |     |     |
| ERB-A-19S-04/06 |    |    |                     | 6+0.018         |     |     |     |
| ERB-A-19S-05/05 |    |    | 5*0.018             | 5+0.018         |     |     |     |
| ERB-A-19S-05/06 |    |    |                     | 6*0.018         |     |     |     |
| ERB-A-19S-06/06 |    |    | 6*0.018             |                 |     |     |     |
| ERB-A-26S-06/06 |    | 30 | 6*0.018             | 6+0.018         | M4  | 6.8 | 3.4 |
| ERB-A-26S-06/08 | 26 |    |                     | 0+0.018         |     |     |     |
| ERB-A-26S-08/08 |    |    | 8+0.018             | 8*0.018         |     |     |     |

# Proper usage

The flexible coupling is available where there are vibration and misalignment. It must be used within the rated allowable misalignment range.

If using the flexible coupling over the rated misalignment range, it may cause vibration or shorten the life cycle. When there are over than two misalignments, each allowable value is 50%.

It is recommended to use the flexible coupling below 1/3 of the allowable value to extend the life of the coupling and the applied equipment.

### © Caution for using

- Couplings are for transferring rotation angle and power between shafts. Before using this, be sure the use and the purpose.
- This product uses high strength aluminum alloy and has spring power as Radial beam type. However, if the coupling is dropped, hit or applied excessive power, it may be damaged or transformed.
- If the coupling is applied over the rated misalignment, or the tolerance of the shaft is over the allowable value, it may cause plastic deformation, damage of the product or shorten the life cycle.
- When it occurs abnormal sound during operating the equipment with this coupling, stop the operation and remove the cause such as misalignment, unscrewing, or rotation hazard.
- If this coupling is applied to the equipment which has big fluctuation of load, shaft may be loose by unscrewing.
   Tighten the screw securely and prevent from unscrewing.

- This product is for transferring rotation power. If there is a risk of human contact, attach the caution label or install a safety cover in a prominent position.
- Rated torque is available to transfer the power continuously. Check the rated capacity before using this product.
- Max. torque is available to transfer the power in a moment. Check the rated capacity before using this product.

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