

Servo Hydraulic Swivel Mount Actuators

AC-02-XXXX

BiSS uses low friction wear resistance seals and hydrostatic bearing surfaces on heads to provide long life and stick slip free operation. Bonded polymer bearings offer high sideload and high velocity. The piston and end caps are protected during full stroke or highvelocity operations by hydraulic cushions. Actuators use large diameter monolithic piston rods made of high yield material for infinite fatigue life, providing strength and maximum lateral stiffness. The chrome plated piston rod is micro ground and superpolished to minimize friction. High-pressure seals designed for low friction, long life, and outstanding performance in high-frequency/low-displacement applications. For applications where reduced friction is a requirement an actuator can be supplied for operation without high pressure seals. Servo valve manifolds with oversize ports and provisions for interfacing to a variety of servo valves and service manifolds are available. Their design provides for fluid conditioning and low/high pressure control and allows the actuator to accept a number of servo-valves. Optional dual servo valve and threestage servo valve configurations are available. Rod end swivels and base ends swivels can help reduce side loads and force alignment problems and eliminate backlash in test setups. Spiral washers preload force train element connections to avoid backlash and fatigue failure between attached components. Available in varying thickness spiral washers for quickly preload attached components.

Standard features

- Fatigue rated
- Contamination insensitive servo valves
- Hydraulic cushions at either end
- Single ended and double ended options
- Integrated manifold design
- Operating frequency up to 200Hz
- Peak Velocity up to 4m/s
- Operating pressure 210 bar
- Force rating up to 5000kN
- Stroke range 50-500mm
- Low friction and wear resistance seals
- Co-axial LVDT



Bangalore Integrated System Solutions Pvt. Ltd.

No. 497E, 14th Cross, 4th Phase, Peenya Industrial Area, Bangalore – 560 058, India

Phone: +91 (80) 28360184, Fax: +91 (80) 28360047 Email: <u>sales@biss.in</u>

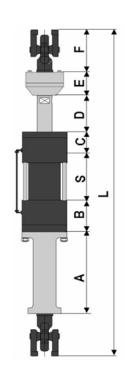


Specifications and Dimensions

| Model no | Force kN | Rod (ID) threading | ≈Length (L) mm | Rod diameter mm | Weight (Kg) | B mm | S mm |
|-------------|-------------|-----------------------|-------------------|-----------------------|----------------|---------|---------|
| AC-02-0105S | 5 | M16 x 2 | 500 | 30 | 20 | 80 | |
| AC-02-0110S | 10 | M27 x 2 | 500 | 40 | 32 | 110 | |
| AC-02-0115S | 15 | M27 x 2 | 500 | 40 | 38 | 110 | |
| AC-02-0125S | 25 | M27 x 2 | 700 | 40 | 45 | 110 | |
| AC-02-0150S | 50 | M27 x 2 | 700 | 50 | 65 | 110 | |
| AC-02-0210S | 100 | M27 x 2 | 700 | 63 | 70 | 110 | |
| AC-02-0215S | 150 | M27 x 2 | 700 | 63 | 95 | 140 | 50 |
| AC-02-0225S | 250 | M27 x 2 | 700 | 125 | 180 | 140 | |
| AC-02-0250S | 500 | M42 x 3 | 800 | 125 | 300 | 160 | |
| AC-02-0310S | 1000 | M90 x 2 | 800 | 180 | 750 | 160 | |
| AC-02-0320S | 2000 | M120 x 2 | 1400 | 250 | 1000 | 185 | |
| AC-02-0330S | 3000 | M120 x 2 | 1400 | 250 | 1250 | 185 | |
| AC-02-0350S | 5000 | M150 x 2 | 1400 | 300 | 1600 | 185 | |

Applications

- Automotive Sub-assembly Testing
- Civil Structural Testing
- Stewart Tables
- Bi-axial and Tri-axial shake tables
- Air Frame Structural Testing
- Multi Axes Simulation Test Rig



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