

BISS AC-02-XXXX Series, Pedestal actuator is designed for extended service in demanding applications in automotive sector. A double ended, monolithic piston rod and hydrostatic bearings create an actuator able to withstand high side-load forces, eliminating wear on the rod or bearings. The manifold design provides for fluid conditioning and low/high pressure control and allows the actuator to accept a number of servo-valves with flow rates ranging from 4 to 370 LPM. Heavy duty hydrostatic bearing at both ends of the actuator allow it to react significant side loads without damage to the piston rod. A heavy wall, rigid actuator body provides for high side-load tolerance and helps to increase the resonant frequency of the actuator. The actuator bore is micro-honed for low friction and the actuator's modular construction allows flexibility in actuator working area and mounting configurations. Utilizing a pedestal base allows rigid attachment of the actuator to a reaction mass for vertical vibration test applications. Adding a high frequency specimen mounting table to a pedestal base mounted actuator allows creating a high-performance vibration test system.

Standard features

- Fatigue rated.
- Contamination insensitive servovalves.
- Hydraulic cushions at either end.
- Single ended and double ended options.
- Integrated manifold design.
- Operating frequency up to 250Hz.
- Pedestal base allows rigid attachment of the actuator to a reaction mass
- Peak Velocity up to 7m/s
- Operating pressure – 210 bar
- Force rating up to 150kN
- Stroke range 50-500mm
- Low friction and wear resistance seals.
- Co-axial LVDT.
- High frequency specimen mounting table.
- Flow rating 4 – 370LPM.



Specifications

Model No.	Dynamic Capacity (kN)	Static Capacity (kN)	Standard Stroke (mm)	Optional (up to mm)
AC-02-0105P	5	8	+/-50	+/-100
AC-02-0110P	10	15	+/-75	+/-150
AC-02-0115P	15	22	+/-75	+/-150
AC-02-0125P	25	35	+/-75	+/-150
AC-02-0150P	50	65	+/-150	+/-250
AC-02-0210P	100	130	+/-150	+/-500
AC-02-0215P	150	200	+/-150	+/-500

Applications

- Suspension Assembly Testing
- Single Poster
- Two Posters
- Four Posters
- Tests producing high side load on actuator
- Vibration Testing
- Resonance Frequency Analysis
- Seismic Tables