



The global leader in customized valve automation

Linear Pneumatic Double Acting Actuators

Features

1 - Cylinder – High strength steel cylinder is honed to a 16RMS finished and hard chrome plated or xylan® coated for enhanced performance and corrosion protection.

2 - Piston – Precision machined steel piston incorporates an anti-friction wear ring and bidirectional quad seal for long trouble-free service.

3 - Cylinder Heads (Upper and Lower) – Precision machined steel cylinder heads provide a true parallel surface for alignment of the cylinder and piston rod bearing.

4 - Piston Rod Bearing – Heavy duty, extra-long piston rod bearing is externally removable for ease of service.

5 - Piston Rod – The piston rod is made from 100,000 psi minimum yield high quality strength alloy steel, honed finish and hard chrome plated.

6 - Travel Stops – Externally adjustable travel stops are sized to withstand the full output thrust of the actuator and do not intrude into the pressurized power cylinder.

7 - Adaption Bracket – One piece open adapter allows for access to travel stops, limit switch adjustment, valve packing adjustment, and actuator removal.

8 - Coupling Block – Unique piston rod to valve stem coupling block allows easy installation and removal of the actuator. (For control valve and globe valve applications, ATI utilizes a **9 - split coupling block**.)



Benefits

- Adjustable travel stops incorporated with our coupling blocks, rather than with thru-bolt, through cylinder heads, which make path for leaking
- All steel construction for higher safety margins (no aluminum, fiberglass or other cost-cutting but weak material components)
- Design and material finish reduce friction
- Upper and lower cylinder heads maintain linearity
- Piston Rod Bearing is designed to move inside the lower cylinder head, maintaining its linearity but not twisting
- Four times the safety factor of industry standard



The global leader in customized valve automation

Linear Pneumatic Spring Return Actuators

Features

1 - Cylinder – High strength steel cylinder is honed to a 16RMS finished and hard chrome plated or xylan® coated for enhanced performance and corrosion protection.

2 - Piston – Precision machined steel piston incorporates an anti-friction wear ring and bidirectional quad seal for long trouble-free service.

3 - Cylinder Heads (Upper and Lower) – Precision machined steel cylinder heads provide a true parallel surface for alignment of the cylinder and piston rod bearing.

4 - Piston Rod Bearing – Heavy duty, extra-long piston rod bearing is externally removable for ease of service.

5 - Piston Rod – The piston rod is made from 100,000 psi minimum yield high quality strength alloy steel, honed finish and hard chrome plated.

6 - Travel Stops – Externally adjustable travel stops are sized to withstand the full output thrust of the actuator and do not intrude into the pressurized power cylinder.

7 - Adaption Bracket – One piece open adapter allows for access to travel stops, limit switch adjustment, valve packing adjustment, and actuator removal.

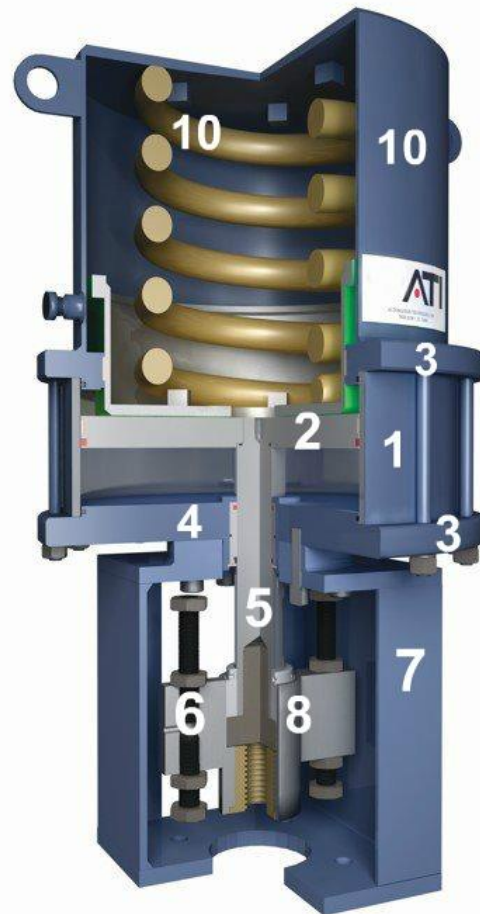
8 - Coupling Block – Unique piston rod to valve stem coupling block allows easy installation and removal of the actuator. (For control valve and globe valve applications, ATI utilizes a

9 - split coupling block.)



10 - Spring & Spring Cartridge

Springs are pre-compressed and welded into sealed spring cartridge at the factory. Spring rates can be designed for maximum stiffness.



Benefits

- Adjustable travel stops incorporated with our coupling blocks, rather than with thru-bolt, through cylinder heads, which make path for leaking
- All steel construction for higher safety margins (no aluminum, fiberglass or other cost-cutting but weak material components)
- Design and material finish reduce friction
- Upper and lower cylinder heads maintain linearity
- Piston Rod Bearing is designed to move inside the lower cylinder head, maintaining its linearity but not twisting
- Four times the safety factor of industry standard
- Springs sealed in canister for safety