Product Guide

Setting a new standard for:

- Pneumatic Actuators
- Electric Actuators
- Hydraulic Actuators
- Valves
- Air Preparation
- Fittings & Manifolds
- Sensors & Switches
- Safety & Production
- BimbaBreakthroughs™
Leaders In Actuation

Thousands of solutions. Thousands of configurations. Endless applications.

Solutions
- Pneumatic
- Hydraulic
- Electric
- Air Preparation
- Valves
- Safety
- Production
- Motion Control
- Custom Designs

Industries & Applications
- Medical
- Food & Packaging
- Agriculture
- Semiconductor
- Aerospace
- Robotics
- Energy
- Window & Door

Challenges Addressed
- Space Constraints
- Wash-Down
- Corrosive Environments
- Poor Air Quality
- Heavy Side Loads
- Position Sensing

Air Preparation

Pneumatic

Electric
Bimba offers an industry leading selection of bore sizes and options for pneumatic actuators. Catalog models can be manufactured in 4 days or less, and are available worldwide through our distribution network.

**Round Line**
- 12 non-repairable bore sizes available from 5/16” to 3”.
- 6 NFPA mounting styles available for Double-Wall® cylinders.
- USDA-approved repairable stainless steel cylinders available in 1-1/2” to 8” bores.
- Round Line
  - Double-Wall®
  - Repairable Stainless Steel

**Compact**
- Bore Sizes: 9/16”, 3/4”, 1-1/16”, 1-1/2”, 2, 2-1/2”, 3”, 4”.
- Repairable Flat-I® design available in 8 bore sizes from 9/16” to 3”.
- Low profile linear slide actuators available in bore sizes ranging from 6 to 32mm.

**NFPA**
- Bore Sizes: 1-1/2”, 2”, 2-1/2”, 3-1/4”, 4”, 5”, 6”, 8”, 10”, 12”.
- Models available in tie-rod, round body, or extruded body designs.

**Guided**
- Bore Sizes: ET and MFD series from 12 to 63mm, T and TE series from 9/16” to 3”.
- Guided Thruster

**Rodless**
- 3 magnetically coupled models and 1 “band type” model available, in 5/16” to 2” bores.
- Ultran® Band

**Rotary**
- 5 single and double rack models in bore sizes from 9/16” to 2”, with standard rotation up to 360°.
- MHRQ extruded body offers 190° max. rotation and is available in 4 sizes.
- Rack & Pinion Pneu-Turn®

**Position Control**
- Closed loop pneumatic control systems and programmable electronic controller for use with position feedback actuators.

**ISO**
- ISO-6431 available in 6 bore sizes from 32mm up to 100mm.
- ISO-6432 available in 6 bore sizes from 8mm to 25mm.

**HYDRAULIC ACTUATORS**
TRD builds hydraulic cylinders with a variety of NFPA mounting options, with operating pressures up to 3,000 PSI. Your cylinders ship in 2 to 3 days with our industry leading delivery times.

**Light Duty**
- 2 models from 5/16” up to 3” bores for pressures up to 250 PSI.
- 1-1/16” to 3” bore model in 3 styles for pressures up to 500 PSI.
- Bimba 500 Hydraulic

**Medium Duty**
- For applications requiring supply pressures up to 1,500 PSI.
- NFPA tie-rod cylinder design available in 1-1/2”, 2”, 2-1/2”, 3-1/4”, 4”, 5”, 6”, and 8” bores.

**Heavy Duty**
- For applications requiring supply pressures up to 3,000 PSI.
- Bore Sizes: 1-1/2”, 2”, 2-1/2”, 3-1/4”, 4”, 5”, 6”, 8”.
- TRD HH Series
**ELECTRIC ACTUATORS**

Bimba’s electric actuator line provides precise control of motion through both custom and off-the-shelf design. The flexibility and options available are ideal for high precision applications.

**Round Line**
- Bore Sizes/Thrust Ranges:
  - 1-1/2”/up to 75 lbs., 2”/up to 150 lbs., 3”/up to 350 lbs.
- Flexible: Choose from no motor, or AC or DC stepper motors.

**Guided**
- Capable of side loads up to 1,000 lbs. and moment loads exceeding 3,600 lbs.

**Rodless**
- Ball and lead screws available.
- Choose from no motor, DC motor, or DC step motor.

**Motors & Controls**
- Stepper & servo motors and drives available.

**VALVES**

Acro, Mead and Pneumadyne offer standard pneumatic, binary, solenoid, foot, hand, and/or button valves, and custom valves designed for your specific application.

**Directional Control Valves**
- Air pilot operated, mechanically operated, or solenoid operated models available.

**Flow Control Valves**
- 8 series available in zinc die cast or composite bodies for air and hydraulic applications.

**Pneumatic Pinch Valves**
- Available in normally-open or normally-closed default states.
- Supports tube sizing in the ranges of 0.125”–1.60” OD and available in N/O or N/C default states.

**Manual Valves**
- Direct Acting hand lever valves available with either 4-port, 2-position or 4-port, 3-position.

**Specialty Valves**
- Products include PTO valves, binary valves, shuttle valves, check valves, hand lever valves, and more.

**Solenoid Valves**
- Available in 2, 3, or 4-way, 2 or 3-positions, normally opened or normally closed.

**Solenoid Pinch Valves**
- Supports tube sizing in the ranges of 0.125”– 0.375” OD and available 2-way N/O or N/C, or dual 3-way N/O-N/C states.

**2-Hand Anti-Tiedown**
- Designed to provide safer operation of air presses, drill fixtures, clamping fixtures, cylinders, valves, or light assembly equipment.
- Washdown and low stress models available.
Bimba and MFD air preparation equipment feature the standard Filter, Regulator, Lubricator, and Assembled Combinations (FRLs). They are available from 1/8” up to 1-1/2” NPT. Accessories include mounting hardware, pressure gauges, shut-off valves, soft-start valves, and more.

**Filters**
- Models include general purpose air filters, oil removal filters, or vapor removal filters.

**Regulators**
- Pressure range: 8 to 300 PSIG.

**Lubricators**
- Transparent polycarbonate or metal bowls are available.

**Combination Units**
- Integrated design combines filter and regulator into 1 product.

**Fittings & Manifolds**
Pneumadyne’s fittings and manifolds provide essential links between components in pneumatic systems. Simply thread fittings into the manifold ports to produce an organized method of supplying multiple lines from a single source.

**Push-to-Connect**
- Connectors, elbows and tees for 1/8” to 3/8” tube ODs.

**Threaded Fittings**
- Adapters, bulkheads, couplings, elbows, tees, and plugs are available.

**Barb Fittings**
- Coupling, cross, elbow and tee configurations available.

**Manifolds**
- Precision machined to offer a variety of materials and sizes/configurations, from 2 to 10 stations.

**Stainless Steel Manifold**

**Bimba switches** offer 4 mounting types and are used with our cylinders for position sensing applications. Our IntelliSense® platform combines sensors, cylinders, and software to deliver real-time performance data for standard pneumatic devices.

**Band Mounted Switches**
- Low current DC, heavy duty and LED models available.

**Track Mounted Switches**
- Operating voltages ranging from 5-240V AC or DC.

**Tie-Rod Mounted Switches**
- Available as sourcing, sinking, or reed.

**Threaded Sensor**
- End of stroke inductive proximity and magnetic reed switches available.

**IntelliSense® Kits**
- 3 styles available: Basic, Starter, and Data Starter.
- English and Metric fitting options.

**Connector Cables**
- M8 quick connect cables with straight or right-angle options available.

**IntelliSense® Data Gateway**
- Remote monitoring for IntelliSense®.
- 100+ GB of data logging.
**SOFTWARE**

Bimba's Software Suite provides a complete suite of intuitive software solutions.

**IQ® Command**
- Terminal emulator used to test and troubleshoot individual or groups of programming demands.

**IQ® Programmer**
- Configure stepper and servo motion profiles according to the application requirements.

**IQ® Servo**
- Used to tune your Bimba servo drive for optimum performance.

**IQ® Stepper**
- Configure stepper motor and drive hardware.

**IQ® Update**
- Used to update stepper and servo drive firmware and keep your investment secure.

**Servo Pneumatic Control System (SPCS)**
- Provides closed loop pneumatic proportional control for all Bimba position feedback actuators.

**IntelliSense®**
- Collect data and monitor machinery remotely, from multiple locations.

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**SAFETY & PRODUCTION**

The Bimba enterprise of companies is committed to a safe workplace. This commitment is demonstrated through its product offerings that help ensure worker safety in all of our customers’ facilities.

- **ACV Series PTO Valves**
- **Air Impact Hammer**
- **Air Reservoir**
- **Air/Oil Tanks**
- **Boosters/Intensifiers**
- **Collet Fixtures**
- **Lockout/Tagout Valves**
- **Presses Panel Mount Valves**

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**BimbaBreakthroughs™**

Bimba's Design Center capabilities have been one of our core characteristics resulting in innovation for our customers. Innovation for one customer sometimes provides us with a breakthrough that all our customers can leverage. We call these BimbaBreakthroughs™:

- **Rate Controls**
- **Hand Tools**
- **Special Intensifiers**
- **Grippers**
- **Pumps**

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Worldwide distribution means there is a professional stocking Bimba distributor nearby ready to service your needs.

Your stocking distributor is:

Bimba Manufacturing Headquarters
P.O. Box 68  Monee, Illinois 60449-0068
Phone: 708-534-8544  Toll Free: 800-44-BIMBA  Fax: 708-235-2014
Email: cs@bimba.com  www.bimba.com

BIMBA BRANDS  I  ACRO  I  MEAD  I  MFD  I  PNEUMADYNE  I  TRD
PNEUMATIC  •  ELECTRIC  •  HYDRAULIC ACTUATORS  FITTINGS — MANIFOLDS — VALVES — AIR PREPARATION — SAFETY & PRODUCTION

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