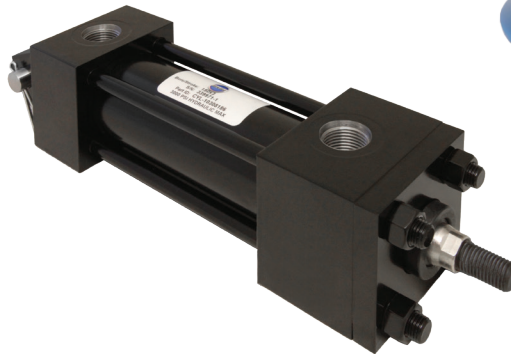




Product Guide

Pneumatic.
Electric.
Hydraulic.
Vacuum.



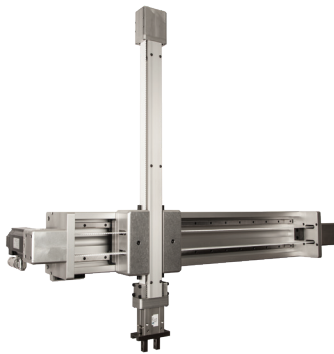
Pneumatics were just the beginning.

Thousands of solutions.
Thousands of configurations.
Endless applications.



Pneumatic

- Actuators
- Valves
- AIROS™ Air Prep
- Fittings
- Tubing
- Manifolds
- Safety & Production
- Sensors & Switches
- Accessories
- Grippers



Electric

- Actuators
- Motors & Controls
- Software
- Switches
- Accessories
- Production Presses



Hydraulic

- Actuators
- Position Control
- Accessories
- Production Presses



Vacuum

- Pumps
- Cups & Fittings
- End-of-Arm Tooling
- Sensors & Switches
- Accessories
- Material Conveying
- Air Amplifiers
- Cartridges

Pneumatic

Pneumatic Actuators



Bimba offers an industry leading selection of bore sizes and options for pneumatic actuators. In addition to its broad line of standard catalog products, Bimba develops many custom products designed for specific applications.

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 options.



Original Line®



Double-Wall®

Compact

- Repairable Flat-1® in 8 bore sizes from 9/16" to 4", also available in all stainless steel.
- Extruded Flat Series has 10 bore sizes with a non-rotating, guided version.
- Multi-power, multi-position, low profile slide models available.



EF-1

Flat-1®



Twin Bore



TA Series

PA Series

NFPA

- 10 bore sizes from 1-1/2" to 12".
- Models available in tie-rod, round body, or extruded body designs.
- Various materials: aluminum, steel, and stainless steel.

Guided

- T and TE Series thrusters offer ball bearing or composite bearing options in 9/16" to 3" bore sizes.
- Extruded Thrusters and MTC Series in bore sizes from 12mm to 63mm.



Guided Thrusters

Rodless

- 3 magnetically coupled models available in bore sizes 5/16" to 2".
- Mechanically coupled band style up to 63mm bore with flexible porting options.



Ultran® Band

Rotary

- Rack and pinion style in 5 bore sizes from 9/16" to 2", with single or double rack configurations and standard rotation up to 1080°.
- MHRQ extruded body offers 190° maximum rotation.



Rack & Pinion Pneu-Turn®



MHRQ

Position Control

- 5 different position feedback actuator styles including linear and rotary motion.
- Servo Pneumatic Control System (SPCS-2) provides smooth and accurate position control.



PFC Series



ISO-15552



ISO-6432

ISO

- ISO 15552 available in 7 bore sizes from 32mm up to 125mm.
- ISO 6432 available in 6 bore sizes from 8mm to 25mm.

AIROS™ Air Preparation

Bimba's AIROS™ air preparation product family merges the existing MG (formerly MFD) series with the brand-new PG Series to provide an extensive line of filters, regulators, lubricators, and accessories for all your air preparation needs.

Filters

- General purpose particle and water removal filters, oil removal filters, and oil vapor removal filters.



PGF Series



MGR Series

PGR Series

Regulators

- Controls compressed air pressure for safe and consistent equipment operation.

Lubricators

- Transparent polycarbonate or metal bowls available.
- Traditional oil fog lubrication and new micro-fog lubrication options.



MGL Series

PGL Series

Combination Units

- Complete air preparation systems for quick installation.



PGFC400 Combination Unit

Sensors & Switches

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

Switches

- Provides a cost-effective interface between the pneumatic actuators and electrical control systems.
- Switch mounting options include band, track, tie-rod, or threaded.
- Available as sourcing, sinking, or reed.
- Operating voltages ranging from 0-240V AC or DC.
- Low current DC, heavy duty, and LED models available.
- Available with pigtail leads or M8 quick connect.
- M8 connector cables available.



Band Mounted Switch



Track Mounted Switch



Tie-Rod Mounted Switch



Threaded Sensor

Digital Pressure Switch (DPS)

- Two individually-programmed sinking (NPN) or sourcing (PNP) digital outputs.
- One 1-5V or 4-20mA analog output optional.



DPS Pressure Switch

BPT Analog Pressure Transducer

- Excellent media compatibility with all stainless steel wetted components.
- Accuracy 0.4% FS, BFSL.



BPT Pressure Transducer

IntelliSense®

- Remote monitoring for IntelliSense® providing insights into the health of your equipment.
- Optional 100+ GB of data logging.



IntelliSense® Basic Kit

Valves

Bimba offers standard pneumatic valves, as well as binary, solenoid, foot, hand or button valves, and custom valves designed for your specific application.

Directional Control Valves

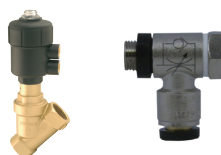
- Inline and modular subbase with solenoid and air pilot available in 2, 3, or 4-way, or 2 or 3-positions.



BV18 Series

Flow Control Valves

- Eight series available in zinc die cast or composite bodies for air and hydraulic applications.
- Angle seat valves provide high flow rates are ideal for aggressive fluids.



Angle Seat Valve FCPM Series

Pinch Valves

- Available in normally open or normally closed default states.
- Supports tube sizing in the ranges of 3/32" up to 1/2" OD.
- Supports tube sizing in the ranges of 0.063"– 0.375" OD and available 2-way N/O or N/C, or dual 3-way N/O-N/C states.



BPV Series Pinch Valve



Versagrip® Solenoid Pinch Valves

Specialty Valves

- Products include PTO valves, binary valves, shuttle valves, check valves, dust collector valves, and more.



Dust Collector Valve



Push Button Valve

Mechanical Valves

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



11 Series Valves

Solenoid Valves

- Available in 2, 3, or 4-way, 2 or 3-positions, normally opened or normally closed.
- Models available with Click-on® feature that provides interchangeability without tools.
- Herion valves for critical environmental conditions.



Herion Valve



Buschjost Valve



10mm

Safety & Production

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

- 2-Hand Anti-Tiedown
- Air/Oil Tanks
- Hole Punch Cylinders
- Pneumatic, Hydraulic, and Electric Presses
- Air Jets
- Boosters/Intensifiers
- Lockout/Tagout Valves
- Safety Valves
- Air Reservoirs
- Grippers
- Panel Mount Valves



Parallel Gripper



BPGS Series Gripper



Pneumatic Isolation Valve



IntelliPress™ Benchtop Electric Press

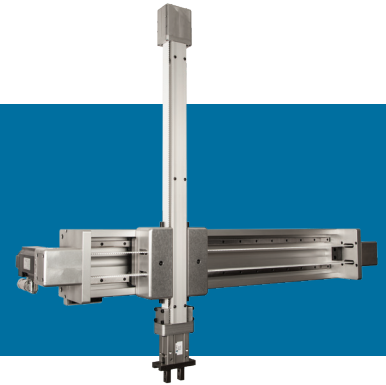


SCSQ10 Series Safety Valves



Bench Top Air Press

Electric



Electric Actuators

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

Rod Style

- Intended to move the heaviest of loads with great precision and ease in high thrust applications.
- Flexible, customizable motor, rod end, and mounting options simplifying the design.



Original Line Electric®



T Series

Motors & Controls

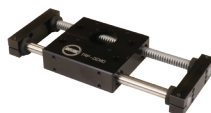
- Step and servo motors with a variety of control options available.
- Choose from single or multiple axis configurations for point-to-point or interpolated motion profiles.



Mitsubishi Servo Motors

Rack & Pinion

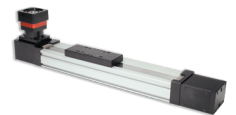
- Ideal for high speed and high thrust applications.
- Motor can be direct coupled to the drive pinion or interfaced through a planetary gear reducer.



TRP Series

Rodless

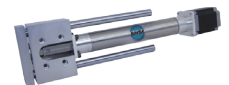
- Belt and ball screw configurations available.
- Configurable motor mounting options can provide additional reduction, space savings, and easy adaptability to your motor.



B27 Series Belt Driven Rodless

Guided

- Ideal for applications with significant side loading and requiring greater control and enhanced flexibility.



Original Line Electric® Thruster

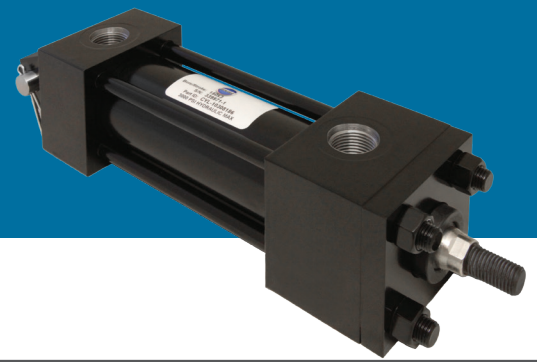
Linear Robots

- 2-axis linear motion control using a unique single belt transportation system.
- Ideal for high speed applications and uses a high precision steel reinforced arc-belt power design.



IntelliAxis® T-Bot

Hydraulic



Hydraulic Actuators

Bimba's hydraulic cylinders are built 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 Pressure

- Non-repairable round line design.
- 12 bore sizes, 5/16" up to 3", for pressures up to 250 psi.
- 1-1/16", 1-1/2" and 2" bores available up to 500 psi.



500 Series

Medium Pressure

- 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.



MH Series

High Pressure

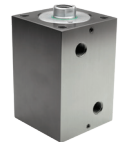
- For applications requiring supply pressures up to 3,000 psi.
- Bore Sizes: 1-1/2", 2", 2-1/2", 3-1/4", 4", 5", 6", 7", 8".



HH Series

Compact

- For applications tight on space.
- Compact medium pressure and high pressure hydraulic models available.
- CMH up to 2030 psi (140 bar).
- CHH up to 3000 psi (206 bar).



CMH Series

Vacuum



Vacuum

Bimba offers a wide range of vacuum products from pumps, cups, and fittings to highly configurable end-of-arm tooling. Our vacuum pumps are designed to operate in most environments without filters and offer maintenance-free and a high productivity experience.

Pumps

- Venturi Pumps
- Material Transfer Pumps
- Non-clogging flow through design
- Highly configurable
- Optimized to maximize vacuum level and flow while minimizing air consumption.



VDF Series

Cups

- Wide variety of shapes, sizes, and materials.
- Specialty cups for specific applications.
- NPT and G threaded fittings available.



Vacuum Cups

End-of-Arm Tooling

- Collaborative robot vacuum tool (CRVT) with integrated pump and valve.
- Adds unparalleled flexibility to your collaborative robot.
- Highly configurable to meet your application needs.
- Simple to install and operate.



Collaborative Robot Vacuum Tool

Custom Solutions

- Bimba can design custom vacuum systems and end-of-arm tools for your application.



Custom CRVT Adapters



Whether it's a modification to an existing product, a custom design for your application, or specific industry need, we deliver exceptional solutions.



1. Opportunity Identification

Identify potential opportunities for us to solve a customer problem through the creation of a specialty device.



2. Application Discovery

Engage with the customer to ascertain their application needs and begin preliminary talks via phone call, "Talk to an Engineer" meeting, or in-person.



3. Design

Our design teams work with your engineers and technical support staff to understand the problem and begin creating concepts to address the customer's challenges.



4. Quote

The quoting process engages manufacturing engineers and Bimba's global procurement team to develop a cost-effective and competitively priced solution.



5. Prototype

Dedicated resources in engineering and manufacturing concentrate on prototype builds to test real-world viability, using real and simulated products.



6. Production Build

Bimba is positioned to leverage its full weight of manufacturing resources to supply production quantities in a timely fashion.

Due to our policy of continuous development, Bimba reserves the right to change specifications without prior notice.

BIM-PG-0320

IMI Precision Engineering operates four global centres of technical excellence and a sales and service network in 75 countries, as well as manufacturing capability in the USA, Germany, China, UK, Switzerland, Czech Republic, Mexico, and Brazil.

For information on all IMI Precision Engineering companies visit www.imi-precision.com

Supported by distributors worldwide.

Bimba

25150 S. Governors Hwy
University Park, IL 60484

Tel: +(1) 708 534 8544

Fax: +(1) 708 235 2014

Toll Free (US): 800-44-BIMBA



For further information, scan this QR code or visit www.bimba.com