

Bimba: Leaders in Actuation



*More actuation, in more sizes,
for more applications*



Why Bimba is your only choice for quality actuators

Since introducing round line, stainless steel body cylinders more than 40 years ago, Bimba has pioneered thousands of different pneumatic and electro-pneumatic actuators for worldwide markets. Today, our product line features space-saving cylinders, NFPA interchangeable cylinders and position feedback cylinders. We also offer Linear Thrusters, rotary actuators, magnetically coupled rodless cylinders, cylinders designed to ISO specifications, plus a vast selection of flow controls, switch options and accessories.

The driving force behind these products is our commitment to customer satisfaction. It starts with the design and manufacture of quality actuators that exceed performance and longevity expectations. It also means fast, on-time delivery and superior services.



Our ISO 9001 certification demonstrates our commitment to quality and provides a uniform framework for quality assurance that is recognized worldwide. We maintain three manufacturing facilities in the United States and one in the United Kingdom. Each houses a large inventory of off-the-shelf actuators to ensure fast delivery.

To provide you with the highest possible level of service, there are more than 120 stocking distributors worldwide. This international sales and service network provides engineering, application and after-sale service.

*But the service doesn't stop there. Our CAD drawings are available for immediate download from our Web site at **www.bimba.com**. A free or discounted actuator is offered to any qualified Original Equipment Manufacturer. Our engineering staff can custom design a cylinder to meet your most stringent requirements. Our Electronic Catalog provides easy access to complete product specifications, options, ordering information, pricing details and more. And if you have any questions, our Technical Assistance Center is just a phone call away.*



*On the following pages, you'll find information on our line of quality actuators and accessories. To learn more, contact your local distributor. If you need their name, just give us a call or visit our Web site at **www.bimba.com**.*

Bimba round line, stainless steel body cylinders are #1 in quality



Original Line cylinders outperform all others

Constructed of "mirror finish" 304 stainless steel with precision double-rolled construction, our Original Line cylinders have earned a reputation as hard-working, long-lasting performers. The line includes thousands of standard models — the largest selection of stainless steel body cylinders in the industry. Performance-enhancing options include seals and lubricants for high and low temperatures and non-lubricated service, rotated ports, position sensing and more. Bore sizes range from 5/16" to 3". Recent new products include cylinders with thermoplastic end caps for trouble-free operation in harsh operating environments; non-rotating cylinders with a square piston rod for superior rotation control; and cylinders with air cushions.

Double-Wall® cylinders streamline design

Our Double-Wall cylinder offers NFPA mounting versatility in a sleek round line design. Available in five bore sizes, 1-1/2" to 4", it features an outer epoxy-coated aluminum tube that protects the inner 304 stainless steel tubing in applications where the cylinder is exposed to physical wear and tear.



Working with limited space? Bimba cylinders can help

Flat-1® cylinders are a perfect fit when space is tight

If your application is tight on space, our Flat-1 cylinders are the answer. Round, square, non-rotating, multiple power and multiple position models offer design versatility. They feature 304 stainless steel bodies in bore sizes from 9/16" to 4". Options include bumpers, seals and lubricants for high and low temperatures and non-lubricated service, Magnalube G® lubrication, rod wipers, extra rod extensions and position sensing. Flat-1 cylinders also come in metric sizes for machines built to international standards.

EF1 and EF2 Cylinders are also ideal for limited spaces

The EF1 Cylinder is completely metric in design. It features a compact aluminum-extruded body that is anodized with a special PTFE impregnation process for superior wear resistance and excellent frictional characteristics. The EF2 Cylinder is a double acting, non-rotating model that offers guided motion. Standard and guided models are available in ten bore sizes, 12mm to 100mm. Options include bumpers, magnetic position sensing and a high temperature option.

Ultran® rodless cylinders save space

Ultran's magnetically coupled design saves almost 50 percent more space than traditional cylinders and keeps out leak-causing contaminants for longer cylinder life. It also provides high coupling strength to carry higher loads. Ultran is available in two models and in nine bore sizes from 5/16" to 2". Both models are offered in metric sizes and with a variety of options.





Choose these Bimba actuators for additional motion possibilities

Pneu-Turn[®] rotary actuator requires less space

Our streamlined rack and pinion Pneu-Turn rotary actuator is constructed of corrosion-resistant stainless steel and anodized aluminum and has no external seals. The Pneu-Turn is perfect for transferring, clamping, binding, turning, screwing and camming applications. The Pneu-Turn is available in five bore sizes, 9/16" to 2", in both single and double rack models. Options include angle adjustment, adjustable cushions, seals, bumpers and position sensing. Pneu-Turn rotary actuators are also available in metric sizes.

Linear Thruster offers smooth, guided motion

Our economical TE Series Linear Thruster includes composite bearings and large-diameter 303 stainless steel shafts for improved load bearing capabilities. It's also ideal for corrosive environments. Or, choose our T Series Linear Thruster with extra-precision, recirculating ball bearings and case hardened steel shafts for less friction and higher precision. Linear Thrusters are available in five bore sizes, 9/16" to 2". Options include adjustable cushions, bumpers, and position sensing.

Transition Plates couple actuators for unequaled application versatility

These easy-to-use, anodized aluminum adapter plates couple Bimba actuators — Ultran rodless cylinders, Pneu-Turn rotary actuators and Linear Thrusters — into a variety of multi-axis configurations.

Bimba actuators for special applications

Position Feedback Cylinders revolutionize position sensing in small-bore pneumatics

When your application requires accurate and reliable small bore position sensing, look no further than our Position Feedback Cylinder. It features a built-in Linear Resistive Transducer (LRT) for precise sensing of any point in the cylinder travel, yet is less than 3/4" longer than traditional magnetic piston cylinders. Ideal for many measuring applications or where variations in cylinder speed or stroke length are required, the Position Feedback Cylinder is available in three mounting styles and five bore sizes, 1-1/16" to 3". A metric version is also available.

PneuMoment™ pneumatic actuator easily handles high side loads and moments

Our PneuMoment pneumatic actuator's unique design features large bearing surfaces for carrying high side loads and moments. Standard side and end ports offer easy plumbing; optional auxiliary ports allow air or vacuum through the actuator to connect additional automation devices such as grippers; and a vacuum port makes the actuator ideal for clean service applications. Options include bumpers, shock absorbers, stroke adjustment and position sensing.



ISO Cylinders conform to international standards

Our ISO 6431/VDMA 24562 and ISO 6432 cylinders are designed to meet international standards, ready for delivery and competitively priced. These metric cylinders are available in bore sizes ranging from 8mm to 100mm. Position Feedback Cylinders that meet ISO 6431/VDMA 24562 standards and ISO 6432 cylinders with thermoplastic end caps are also available.



Bimba accessories expand your application possibilities



Position sensing switches ease automation

Bimba pioneered the use of magnetic position sensing for cylinders, and we continue to make it easy to automate processes with this option. We offer Magnetic Reed and/or Hall Effect Switches with all of our product lines. Recent product introductions include miniature Reed Switches that slide into channels in the actuator body for a streamlined look. Quick connect options save assembly time and minimize wiring errors.

Flow Controls available in various sizes and styles

We offer four types of meter-out controls — Quik-Flo® Flow Controls (inch), Miniature Quik-Flo Flow Controls (inch) and our standard Flow Controls (inch and metric) to regulate cylinder speed. We also offer a Needle Valve for controlled flow of both air intake and exhaust. Our ultra-compact, port-mounted Miniature Quik-Flo Flow Controls feature an integral “quick-connect” fitting to streamline design and assembly. All of our flow controls offer a choice of a recessed needle to prevent tampering or a knob control for precise speed control and easy adjustment.

*To learn more, contact your local distributor. If you need
their name, just give us a call or visit our Web site at
www.bimba.com.*

Your Stocking Bimba Distributor is:

For technical assistance,
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**ISO 9001
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