What is a pinch valve?
A pinch valve is a type of control valve, which pinches a flexible tube to control fluid flow. The pinching (compression) can be accomplished using mechanical clamping mechanisms and can be pneumatically or electrically actuated.

Why use pinch valves?
Industry leaders looking for low-maintenance and cost-effective solutions for controlling corrosive liquids, gases, slurries, and powders in a pipeline are turning to pinch valves with flexible tubing over traditional valves.

Pinch valves feature a straight-through flow, very little pressure drop over the valve, and full shut-off of media in the tube. They can lessen or eliminate contamination, improving hygienic processes and making it the most practical solution for various fluid control applications.

Advantages of Pinch Valves
- Compact, lightweight design
- Easy cleaning (just throw away the tubing)
- Fast and simple tube replacement
- Long performance and reliability
- Easy valve exchange
- Reduced valve costs
- Requires very low maintenance

We make things MOVE®

Faster changeovers

Hygienic design

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

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600-Series Pneumatic Pinch Valves

**FEATURES & BENEFITS**
- Lightweight, compact, powerful, cost-effective, and supports tube O.D. from 0.093” through 0.500”
- Affordable without compromising quality
- Designed for Food and Beverage, Industrial, Chemical Processing and Medical Device applications where sterility and wash down procedures are needed
- Specifically designed for disposable tubing
- Valve body is not affected by the corrosiveness of the fluids

200-Series Pneumatic Pinch Valves

**FEATURES & BENEFITS**
- Compact, lightweight design that’s competitively priced, while supporting 0.094” to 0.375” tube O.D.
- Adjustable pinch gap that supports multiple tube sizes
- Fast and simple tube replacement
- Long performance and reliability
- Easy valve exchange
- Easy cleaning prevents media contamination
- All valve models are RoHS2 compliant

900-Series Pneumatic Pinch Valves

**FEATURES & BENEFITS**
- Offers reliability and performance when working with larger diameter or harder tubing that requires stronger pinch forces, from 0.062” to 1.625” O.D.
- Support tubing diameter to 65 Shore A and 75 PSI/ 5.2 bar media pressure
- Pinched head designed for washdown and clean rooms
- Available in black anodized aluminum or 316 stainless steel

Versagrip® Solenoid Pinch Valves

**FEATURES & BENEFITS**
- Supports average tubing diameter up to 60 Shore A and 15 PSI/1 bar media pressure
- Compact design with low operational noise
- Average actuation speeds of 90 milliseconds or less without tube loaded
- Seals prevent liquid penetration, supporting easy cleaning or sterilization procedures
- 3 million MTBF or 18 month warranty
- Use OD solenoid controller or pulse-width modulation methods for power and heat management

Electric and Pneumatic Proportional Pinch Valves

**FEATURES & BENEFITS**
- Provides a robust solution for accurate closed loop proportional control and precision fluid management
- Dependable, compact, and cost-effective solution for immediate response
- Each model contains a snap-in tube slot for quick loading and unloading procedures
- Flexible tubing sizes from 0.062” to 1.625” O.D.
- Combines two Bimba technologies into a single system (PPV/Pneumatic models)

Custom Pinch Valves

**CUSTOM BUILT SOLUTIONS**
Need a custom designed pinch valve or fluidic assembly? Let Bimba’s team of experienced engineers work with you to produce a solution. From modifying existing systems to building complete custom designs, we have the breadth of product knowledge and options to help create exactly what you need. For over 30 years, we’ve designed hundreds of custom solutions for a wide variety of applications and industries, and we can do the same for you. For more information, visit bimba.com/fluid-management.

200-Series Pneumatic Pinch Valves:
- **MODELS**
  - 603 Series: Single slot actuator with 3/16” O.D. tube
  - 604 Series: Single slot actuator with 1/4” O.D. tube

900-Series Pneumatic Pinch Valves:
- **MODELS**
  - 606 Series: Single slot air actuator with 3/8” O.D. tube

Versagrip® Solenoid Pinch Valves:
- **MODELS**
  - 600 Series: Single slot solenoid with 1/4” O.D.
  - 604 Series: Single slot solenoid with 1/2” O.D.

200-Series Pneumatic Pinch Valves:
- **MODELS**
  - 603 Series: Aluminum actuator with 3/16” O.D. tube
  - 604 Series: Aluminum actuator with 1/4” O.D. tube

900-Series Pneumatic Pinch Valves:
- **MODELS**
  - 606 Series: Aluminum actuator with 3/8” O.D. tube

Versagrip® Solenoid Pinch Valves:
- **MODELS**
  - Model 1000: Supports tubing 0.062” to 0.250” O.D.
  - Model 1200: Supports tubing 0.250” to 1.625” O.D.
  - Model 934: Supports tubing 0.062” to 1.625” O.D.

Custom Pinch Valves:
- **MODELS**
  - Model 1400: Supports tubing 0.250” to 0.375” O.D.

COMPLEMENTARY PRODUCTS:
- **ACCESSORIES**
  - Fittings
  - Manifolds
- **STAINLESS STEEL VALVES**
  - Model 936 Hybrid: Aluminum actuator and stainless steel pinch head
  - Model 932 Aluminum: Aluminum actuator and stainless steel pinch head
  - Model 934 Stainless: Stainless steel actuator and stainless steel pinch head
  - Model 932 Pneumatic: Aluminum actuator and stainless steel pinch head
  - Model 936 Pneumatic: Pneumatic actuator and stainless steel pinch head