

Precision Orifices



Precision Metal Orifices

Features / Benefits

- Precise bidirectional fluid flow control (liquids & gases)
- Simple implementation with a variety of connection types
- Wide temperature and pressure operating range
- Repeatable orifice size and shape
- Wide range of standard orifice sizes from 0.004" to 0.125" in diameter
- For flow control, flow restriction, throttling, or pressure snubbing

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Precision Sapphire Orifices

Features / Benefits

Same benefits as metal orifices with the following additions:

- Higher resistance to heat and pressure, corrosion and wear
- Chemically inert
- 32 standard sizes ranging from 0.0012" to 0.0252" in diameter
- Fitting bodies available in stainless steel, brass, and nylon

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Precision MICRO-ORIFICES®

Features / Benefits

Same benefits as metal orifices with the following additions:

- Typically used in very low flow rate applications
- Extremely accurate, high performance
- Standard incremental sizes from 0.0003" to 0.005" in diameter.

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Check Valves



Disk Type Check Valves

Features / Benefits

- Allow free flow in one direction and no flow in the other
- High flow capacity
- Low cracking pressure
- Low pressure loss
- Large selection of in-line connections including NPT, UNF and compression tube

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Ball Type Check Valves

Features / Benefits

- Allow free flow in one direction and no flow in the other
- Metal-to-metal construction
- Many cracking pressure options
- High pressure
- Large selection of in-line connections including NPT, UNF and compression tube

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Threaded Insert Check Valves

Features / Benefits

- Allow free flow in one direction and no flow in the other
- Many thread sizes available
- Stainless steel or elastomeric ball
- Many cracking pressure options
- Optional nose seal construction
- Designed to thread into a valve, manifold, or some other component in a fluid system

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Tamperproof Flow Controls



Checked Orifices

Features / Benefits

- Single construction - Check Valve and Precision Orifice *in series*
- Metered flow in one direction with no flow in opposite direction
- Backflow prevention in tamperproof metered applications
- All metal construction for long, trouble-free operating life
- Reduces opportunities for fluid contamination
- Available in NPT, UNF/UNC and Threaded Insert connections

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Fixed Flow Controls

Features / Benefits

- Single construction - Check Valve and Precision Orifice *in parallel*
- Metered flow in one direction with free flow in opposite direction
- Free flow is the combined flow capacity of the orifice and valve
- Can handle high pressures with low pressure loss
- Tamperproof, all metal construction for long, trouble-free operating life

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Bidirectional Fixed Flow Controls

Features / Benefits

- Simultaneous small orifice and opposing large orifice metered flow
- Tamperproof, all metal single construction device
- Can handle high pressures with low pressure loss
- High flow capacity
- Can be used for 3-way valve dampening
- Can be used for speed control of spring-loaded cylinders

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Miniature In-Line Screens & Breathers



Miniature SS Wire Screens

Features / Benefits

- Protects orifices and other critical components from particles
- Bound, unbound, and press-fit sleeve configurations
- Offered in variety of outside diameter sizes
- 10, 15, 25 and 100 micron particle retention mesh sizes

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Miniature In-Line Screens

Features / Benefits

- Easy to incorporate particle protection for devices and systems
- Fine stainless steel wire screen in an all metal fitting
- In-line fittings have upstream and downstream connections
- Available in brass or stainless steel
- 10, 15, 25 and 100 micron particle retention mesh sizes

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Fine Screen Breathers

Features / Benefits

- Ensures that only clean fluid enters a component or system
- All metal fittings; brass or stainless steel
- 15, 25 and 100 micron particle retention SS mesh sizes
- 10-32, 1/8" or 1/4" NPT connection sizes
- Can be used for equipment enclosures, vented control components, air purge equipment, and small valves

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Fixed Flow Rate Orifices



Fixed Flow Rate Orifices

Features / Benefits

- Maintains a constant flow of water despite pressure differential changes
- Flow rate – 0.2 to 10 gallons per min
- Pressure range – 15 to 150psi
- Temperature range – 32°F to 160°F
- Available in 1/4", 3/8", 1/2", 3/4" NPT
- Tamperproof construction
- For water flow rate control
- For water rate limitation / conservation
- Can be used in heating and cooling systems and water spray applications

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Pneumatic Float Valves & Level Sensors



Pneumatic Float Valves

Features / Benefits

- Three-way pneumatic valve and actuation state indicator
- Magnetic coupling connecting the float to the valve
- Inherently explosion-proof – No risk of electrical shock
- Minimum air usage
- Suitability for vented and non-vented vessels
- Side-mounting or top-mounting
- Available in normally open or normally closed models

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Pneumatic Level Controls

Features / Benefits

- Used in conjunction with our Pneumatic Float Valves to provide level indication or control.
- **Level Indicator Panels** display either high or low liquid levels. For indication purposes only.
- **Pneumatic Control Panels** provide a pneumatic output to control liquid level between two points.
- Inherently explosion-proof – no risk of electrical shock
- Minimum air usage

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Miniature Stainless Steel Fittings & Bulkhead Connectors



Miniature Stainless Steel Fittings

Features / Benefits

- Utilized both inside and outside protective enclosures to connect fluid conductors together
- Corrosion resistant – 303 stainless steel
- Wide range of chemical compatibility

- Available in several harder-to-find configurations
- NPT, 10-32 UNF, and Barbed connections available
- Can be used in medical devices, food handling equipment, hydraulic controls

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Miniature Bulkhead Connectors

Features / Benefits

- Create a secure, leak-free connection of a fluid pathway from outside to inside a device or enclosure.
- Corrosion resistant - 303 stainless steel
- NPT and 10-32 UNF connections available

- Can be used in valve manifolds, pneumatic devices, computer component enclosures, food & beverage processing and pharmaceutical manufacturing equipment

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