

# FILTER FITTINGS

**For Fluid Power, Process and Other Industries**

*DESIGN ENGINEERING, MANUFACTURING,  
PROTOTYPING & TESTING*



**Fluid Line Products, Inc.**

*Designer and Manufacturer of Fluid Power Components*

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# To Our Customers

Fluid Line Products specializes in design, development, testing and manufacturing of fluid power components.

Whether you need a component in a new product line, a replacement part, or have a special performance requirement, our worldwide engineering experience in the

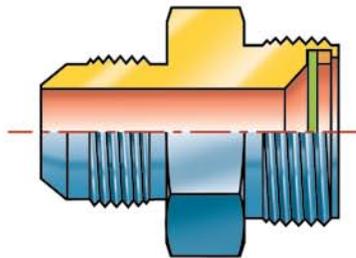
field will convert your needs into a reliable and cost-effective product.

We pride ourselves in our innovative designs, high quality machining, and precise testing and inspection.



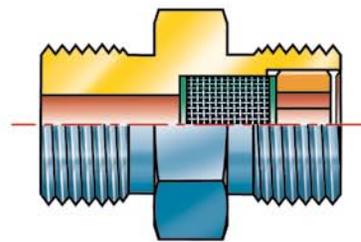
## Features

- Low pressure application
- Simple & cost-effective
- Bi-directional
- Wire mesh filter
- Small envelope



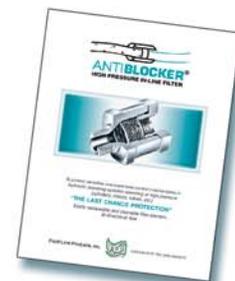
## Features

- Low/medium pressure application
- Bronze, wire mesh or knitted wire filter insert
- Uni- or bi-directional



## Features

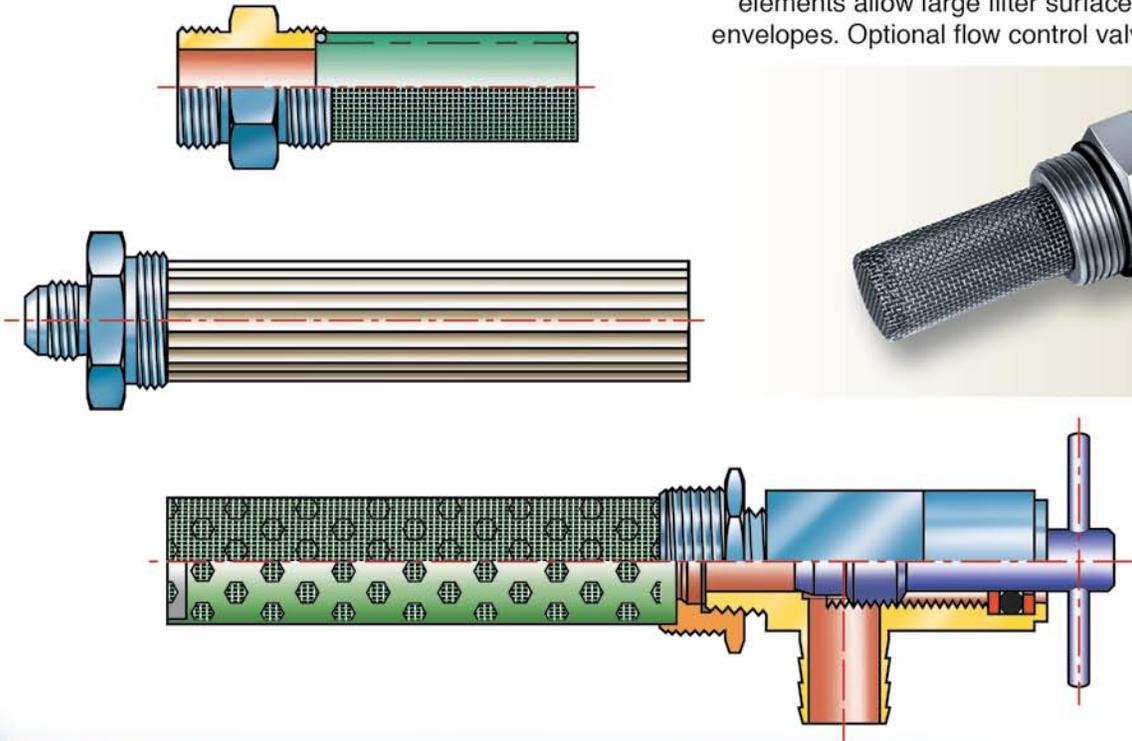
- Small envelope
- Easily cleanable
- In-line design reduces pressure loss
- Bi-directional
- Operating pressure: 6000 PSI
- Collapse pressure: 4000 PSI
- High thermal resistance
- High shock resistance
- Corrosion resistant stainless steel element



See our AntiBlocker catalog for more information

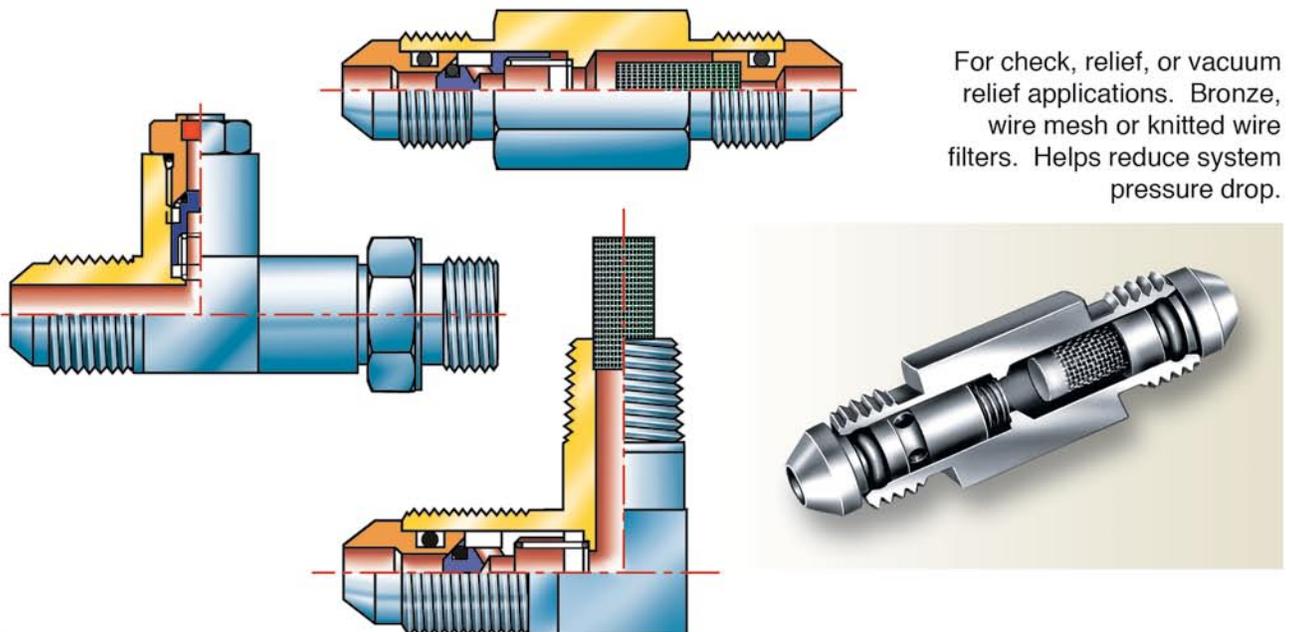
## Suction Strainers

Can be mounted directly to tank. Pleated filter elements allow large filter surface area in small envelopes. Optional flow control valves available.



## Check/Relief Valves with Integrated Filters

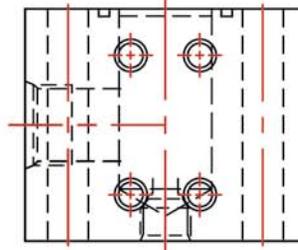
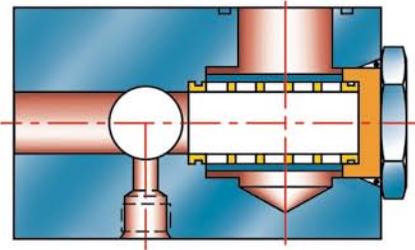
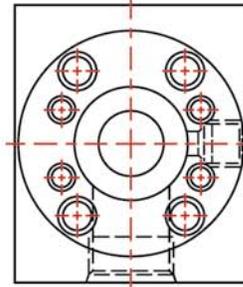
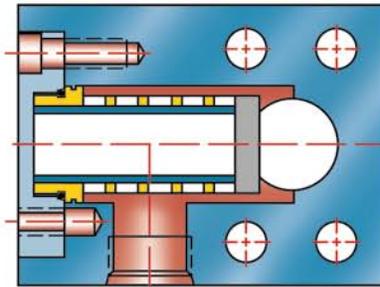
For check, relief, or vacuum relief applications. Bronze, wire mesh or knitted wire filters. Helps reduce system pressure drop.



## Manifold Mounted

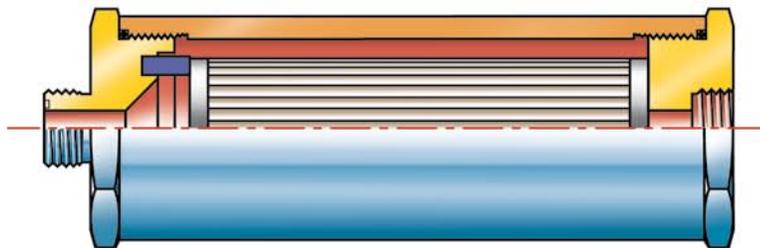
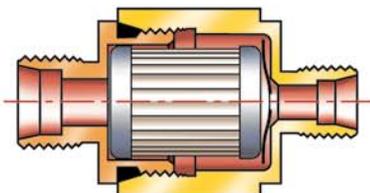
### ADD A FILTER!

Protect sensitive components from failure. Filter is designed as an integral part of the manifold. Filter element is removable for easy cleaning. Up to 6000 PSI operating pressure rated up to 120 GPM flow. Designed for multi-port applications.



## Special Applications

Fluid Line Products manufactures a wide range of engineered fluid power components. Our engineering department can help provide solutions to your specific applications and requirements.

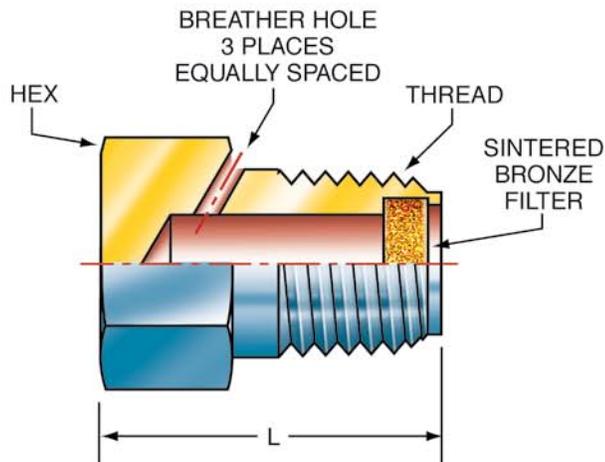


# Breather Plugs

Breather plugs are used to vent enclosed areas such as crankcases and fluid housings.

**MICRON RATING:** 250, 150, 90, 40, 30, 25, 20, 10  
**MATERIAL:** Steel, Stainless Steel, Brass, Special  
**FILTER MATERIAL:** Sintered Bronze  
**LOW PRESSURE APPLICATIONS**

*Other connections, sizes, filters and materials available on request.*

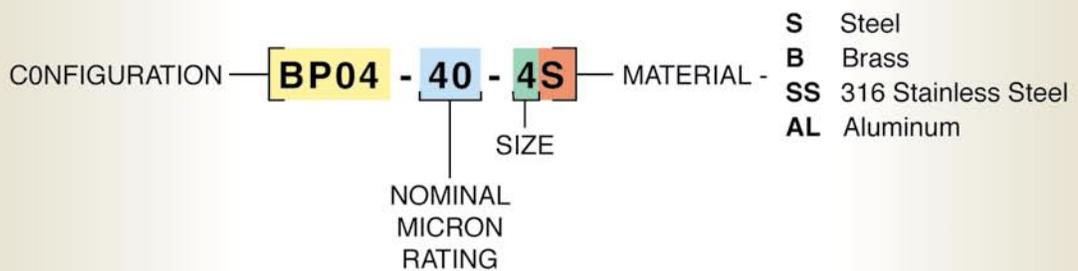


SIZE	THD.	HEX	L
2	1/8 NPTF	1/2	.76
4	1/4 NPTF	5/8	.94
6	3/8 NPTF	7/8	.94
8	1/2 NPTF	1	1.13
12	3/4 NPTF	1-1/4	1.13
16	1 NPTF	1-1/2	1.32

*NOTE: Dimensions on this chart are for reference only. Consult our engineering department for details.*

## How to Order

1. Select nominal micron rating
2. Select size
3. Select material



## Testing Capabilities

- Max. operating pressure:** Determined by connection type
- Flow range:** Liquid: 0 to 130 GPM;  
Gas: 0 to 600 SCFM
- Fluid temp. range:** Buna N: -40° F to 250° F;  
Viton: -10° F to 375° F;  
Ethylene Propylene: -50° F to 300° F;  
Neoprene: -40° F to 250° F
- External leakage:** Zero
- Operating fluids:** Hydraulic fluid, oil, air, refrigerant, water, chemicals, fuel, gases
- Mounting position:** Fittings may be installed in any position
- Materials:** Carbon Steel  
Stainless Steel  
Brass  
Monel  
Aluminum  
Inconel  
Hastelloy  
Special
- Sizes:** 1/16" - 3"

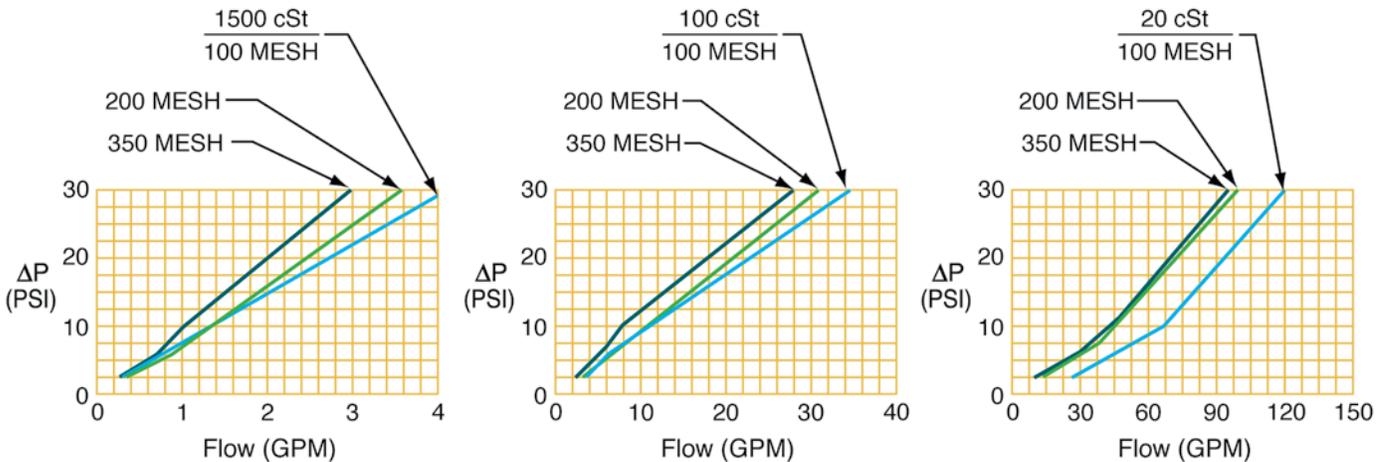
- Hydrostatic Proof Test (up to 60,000 PSI)
- Hydrostatic Burst Test (up to 60,000 PSI)
- Impulse Pressure Test (peak up to 30,000 PSI, max. cycle rate 4 Hz)
- Hydrodynamic Cycle Test (Flow Endurance Test)
- Flexure Fatigue Test
- Repeated Assembly Test
- Overtorque Test
- Vacuum Test
- Surge (Spike) Pressure and Flow Testing
- External and Internal Leakage Tests
- Cracking Pressure Test
- Pressure vs. Flow Test
- Pressure Drop vs. Flow Test
- Differential Pressure Test
- Load/Stress/Strain Test
- Calibration Tests (Flow and Pressure)
- Flow Test (max. 40 GPM)

*Test reports are available on request*

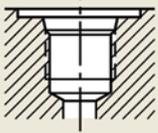
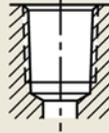
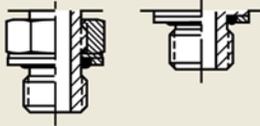
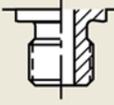
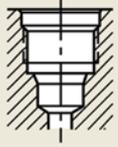
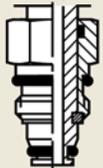
# Wire Mesh Filters

## Pressure Drop Characteristics

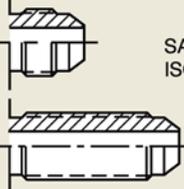
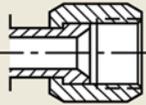
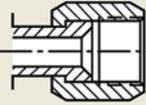
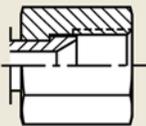
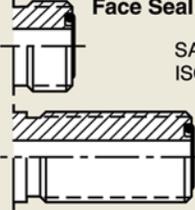
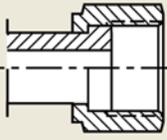
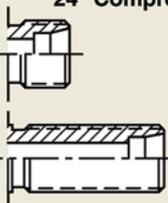
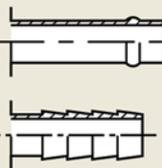
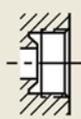
Data based on filtering area of 1 sq. in.



## PORT CONNECTIONS

<p><b>O-Ring Boss</b></p>  <p>SAE J1926 ISO 11926 SAE J2244* ISO 6149* DIN 3852-3* JIS B 2351**</p>	<p><b>O-Ring Boss</b></p>  <p>SAE J1926 ISO 11926 SAE J2244* ISO 6149* JIS B 2351** DIN 3852-3*</p>	<p><b>Conical Thread</b></p>  <p>SAE J476 DIN 3852-1 Type Z† DIN 3852-2 Type Z†† JIS B 8363††</p>	<p><b>Conical Thread</b></p>  <p>SAE J476 DIN 3852-1 Type C† DIN 3852-2 Type C†† JIS B 8363††</p>
<p><b>Parallel Thread</b></p>  <p>DIN 3852-1 Type X/Y* DIN 3852-2 Type X/Y**</p>	<p><b>Parallel Thread</b></p>  <p>DIN 3852-1* DIN 3852-2** ISO 1179** ISO 9974*</p>	<p><b>Bonded Seal</b></p>  <p>DIN 3852-1 Type A* DIN 3852-2 Type A** ISO 1179** ISO 9974*</p>	<p><b>Metal-to-Metal Seal</b></p>  <p>DIN 3852-1 Type B* DIN 3852-2 Type B** ISO 1179** ISO 9974*</p>
<p><b>Uniport 10K®</b> Leak free double seal</p>  <p>SAE J2337</p>	<p><b>Uniport 10K®</b> Leak free double seal</p>  <p>SAE J2337</p>	<p>The connections displayed are a sample of our manufacturing capabilities. For connections not shown, please contact our engineering department.</p>	

## TUBE CONNECTIONS

<p><b>37° JIC</b></p>  <p>SAE J514 ISO 8434-2</p>	<p><b>37° Swivel</b></p>  <p>SAE J514 ISO 8434-2</p>	<p><b>45° Flare</b></p>  <p>SAE J512</p>	<p><b>45° Swivel</b></p>  <p>SAE J512</p>
<p><b>30° Flare</b></p>  <p>JIS B 8363**</p>	<p><b>30° Swivel</b></p>  <p>JIS B 8363**</p>	<p><b>Face Seal</b></p>  <p>SAE J1453 ISO 8434-3</p>	<p><b>Face Seal Swivel</b></p>  <p>SAE J1453 ISO 8434-3</p>
<p><b>24° Compression</b></p>  <p>SAE J514 ISO 8434-1* DIN 3861* JIS B 2351**</p>	<p><b>Tapered Sleeve Compression</b></p>  <p>SAE J512 DIN 2380</p>	<p><b>Low Pressure Hose</b></p>  <p>SAE J1231</p>	<p><b>Inverted Flare</b></p>  <p>SAE J512 DIN 74235</p>

\* Metric Parallel Thread ISO 261

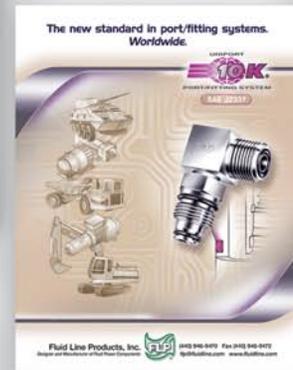
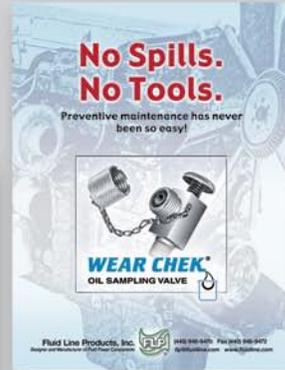
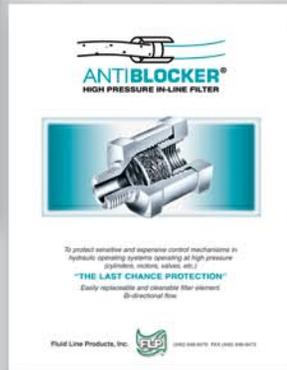
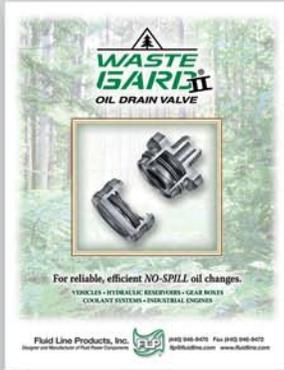
† Metric Conical Thread DIN 158

\*\* BSP Parallel Thread (BSPP) JIS B 0203/BS 2279

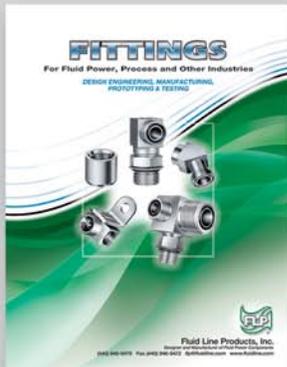
†† BSP Conical Thread (BSPT) JIS B 0202/BS 21

Call or write us for more information detailing additional product lines manufactured by Fluid Line Products.

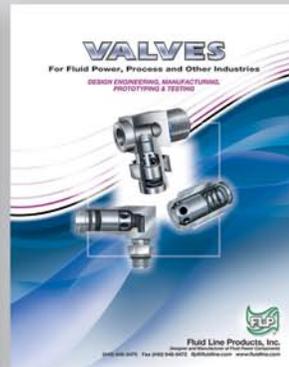
**STANDARD PRODUCTS**



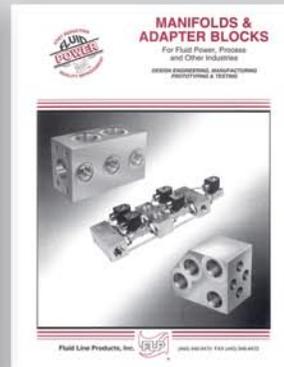
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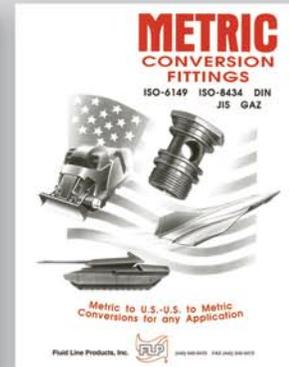
Fittings



Valves



Manifolds



Metric Conversion Fittings



**Fluid Line Products, Inc.**

Designer and Manufacturer of Fluid Power Components

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