

# FiberFlo® Hydrophobic Carbonation Capsule Filters

FiberFlo hydrophobic carbonation filters are manufactured using unique polypropylene hollow fibers that provide for low extractables and a wide range of chemical compatibility. The asymmetric, microporous hollow fibers provide a wide range of gas sparging capability making them ideally suited for high value added applications. FiberFlo carbonation filters are available with a variety of inlet and outlet connections.

FiberFlo carbonation filters are designed and manufactured in accordance with an ISO 9000 Quality Management System. For easy identification and traceability each capsule is labeled with a lot number, catalog number, pore size and serial number. FiberFlo carbonation filters are 100% integrity tested during the manufacturing process. All FiberFlo filter devices are manufactured and tested to be non-pyrogenic by Limulus Amebocyte Lysate (LAL).

## Typical Applications

The carbonation of process solutions.

## Specifications

### Materials

Hydrophobic polypropylene membrane, polycarbonate housing and polypropylene vent caps.

### Connections

FiberFlo oxygenation filters are available with 1/4" NPTM, 3/8" NPTM, 3/8" Hose Barb, 1/2" Hose Barb and Sanitary connectors.

### Pore Sizes

0.03  $\mu\text{m}$

### Filter Area

Large: 6000  $\text{cm}^2$  (6.5  $\text{ft}^2$ ), Medium: 2300  $\text{cm}^2$  (2.5  $\text{ft}^2$ ), Small: 950  $\text{cm}^2$  (1.0  $\text{ft}^2$ )

### Maximum Inlet Pressure

85 psi (5.8 Bars)

### Maximum Differential Pressure

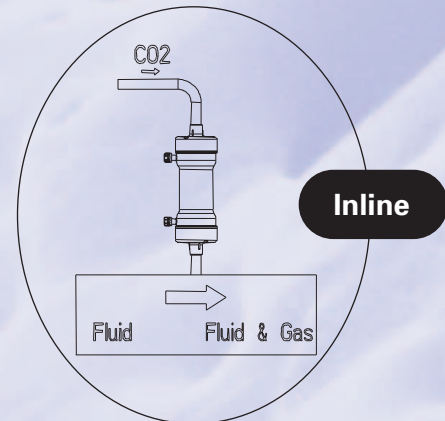
40 psi (2.7 Bars)

### Gravimetric Extractables

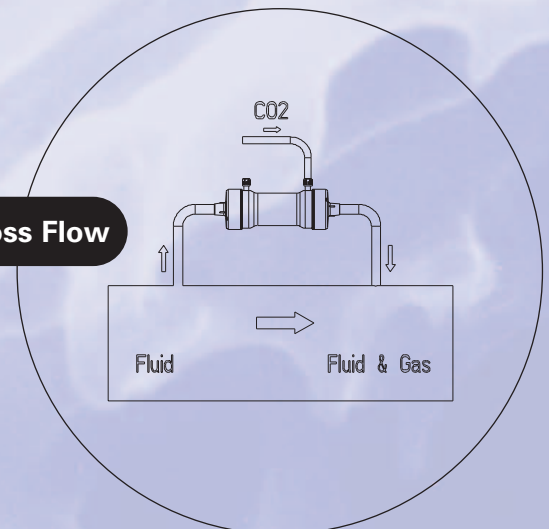
FiberFlo carbonation filters pass the USP standards for total solids for purified water.

### Oxidizable Substances

FiberFlo carbonation filters pass the USP standards for oxidizable substances for purified water.



Inline



Cross Flow

### Toxicity

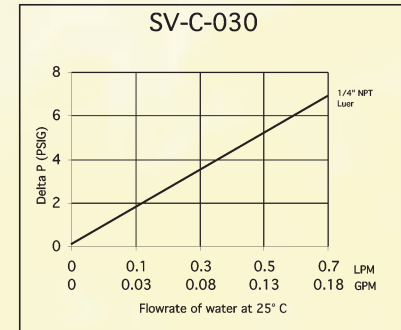
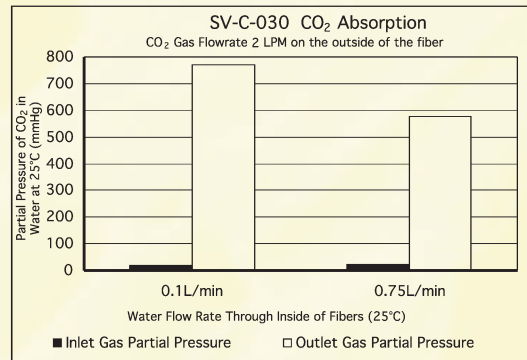
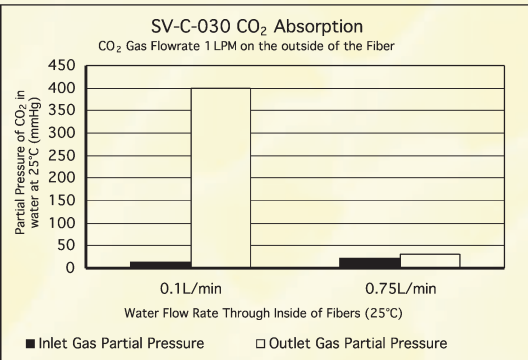
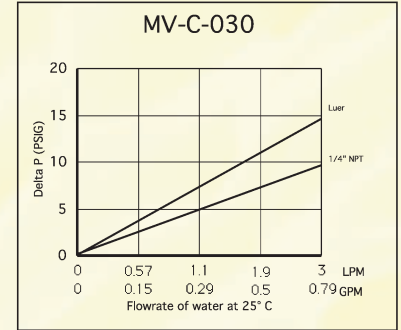
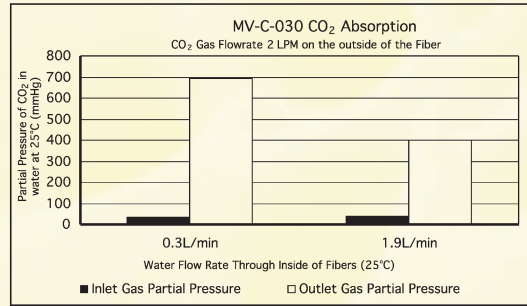
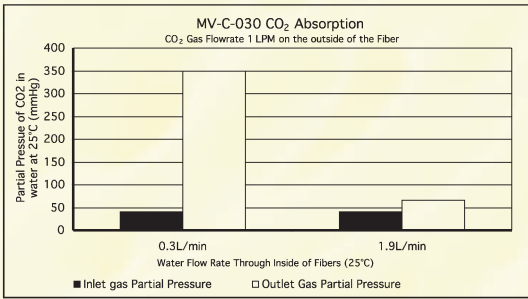
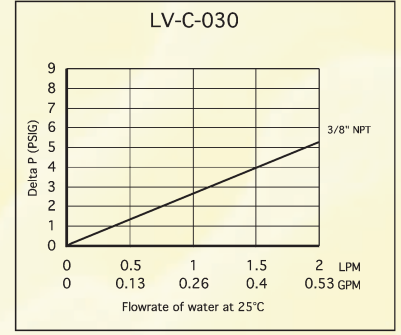
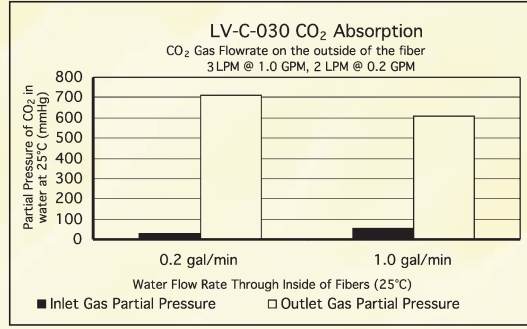
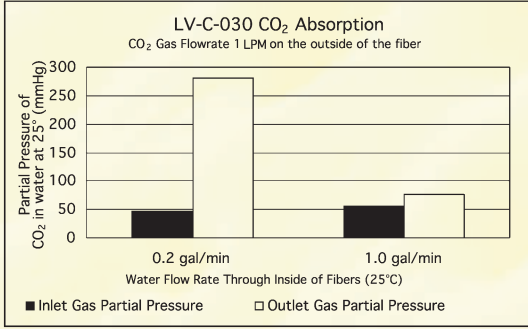
The FiberFlo carbonation filter components have been tested according to ISO guidelines for biocompatibility and have been found to be acceptable.

### Integrity Test

Diffusive Flow < 80 ml/min. per filter @ 30 psig

# Carbon Dioxide Absorption

# Flow Rates (water at 25°C)



## Ordering Information

**LV - I - 030 - A**

**Capsule Size  
(Membrane Surface Area)**

L = 6.5 ft<sup>2</sup>  
M = 2.5 ft<sup>2</sup>  
S = 1.0 ft<sup>2</sup>

**Inline**  
I = Inline  
C = Crossflow

**Micron Rating**  
030 = 0.03µm

**End-Fitting Option**  
(See Product Pricing  
Guide for details)

**Call: (800) 328-3370**  
**www.minntech.com**



Minntech Corporation  
14605 23th Avenue North  
Minneapolis, MN 55447-4822  
U.S.A.  
Tel: (763) 553-3344  
Toll Free: (800) 328-3370  
Fax: (763) 553-3587

Minntech B.V.  
Sourthweg 11  
6422PC Heerlen  
The Netherlands  
Tel: (31) 45 5 471471  
Fax: (31) 45 5 429695  
www.minntech.com

Minntech Japan Corporation  
4F Sumitomo Seimei Yochomechi Bldg.  
10-10 Yochomechi, Shinjuku-ku  
Tokyo 162-0355  
Japan  
Tel: (81) 3 (3225) 8680  
Fax: (81) 3 (3225) 8681

Minntech International  
Singapore Representative Office  
No. 138 Robinson Road  
#1E-09/1C The Corporate Office  
Singapore 068906  
Tel: +65 6227 9898  
Fax: +65 6225 6846