

GO REGULATOR

F-4 Series Line Filter



This filter is designed to be used as a standard line filter or it may easily be threaded into a pressure regulator or valve body for inlet protection. If desired we will install this filter for you into any of our standard pressure control valves prior to shipment.

For your special requirements this filter can be custom manufactured of almost any machinable alloy. Let us know your requirement.

Features & Specifications

- Compact Size
- Economical Design
- Easily Changed Filter Elements
- Stainless Steel Body (316 Series) with Teflon® Seals
- Nominal Micron Ratings of Filtration Available: 10, 20, 50, 70, 100, 200 and 300 Micron
- Pressures Up to 6000 psig

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PO Box 4866
Spartanburg, SC 29303
tel 864.574.7966
fax 864.587.5608
www.goreg.com
sales@goreg.com

F-4 Series Line Filter

How to Order

Part No. 102120-10

Standard filter with 10 micron nominal filtration

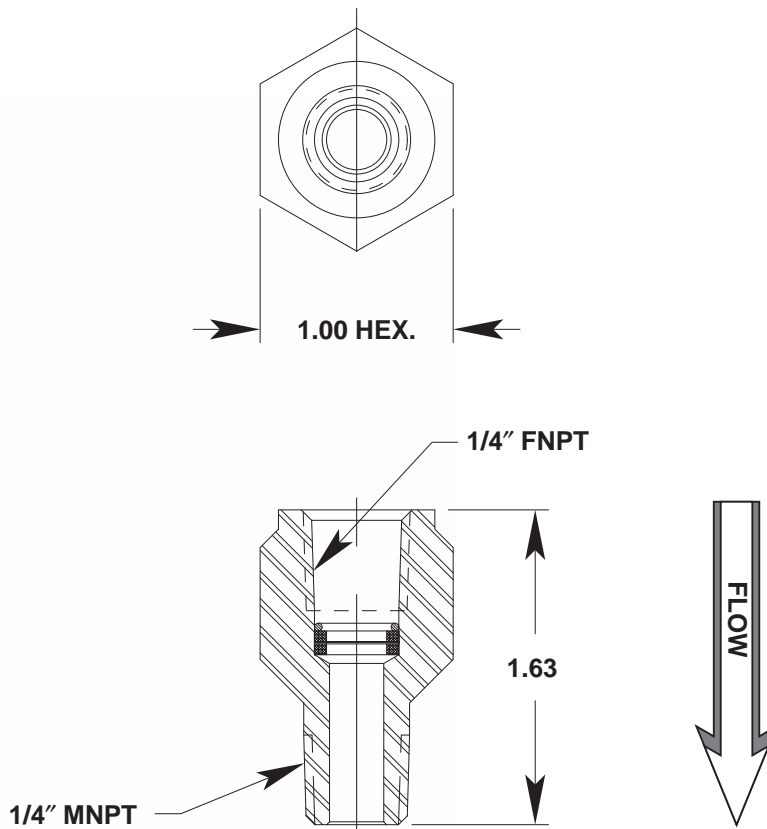
If other than the standard 10 micron filtration is desired, specify by the use of a dash No.
For example: 102120-20 for 20 micron filtration or 102120-50 for 50 micron filtration

Maximum Temperature & Control Pressures

Maximum Temperature	@	Maximum Operating Inlet Pressure
500° F (260° C)	@	6000 psiG (41.37 MPa)

Teflon® is a registered trademark of Dupont.

Outline and Mounting Dimensions



GO REGULATOR

F-6K Line Filter



The F-6K filter has been designed with bar stock construction to provide reliable and economical filtration of streams having pressures up to 6000 psig at 70° F (20° C).

Materials of construction are 316 Stainless Steel and Teflon® for maximum service capability at economical prices. If a greater level of corrosion protection is required, this unit can be made from Monel or Hastelloy. The sintered 316 Stainless Steel filter element, with filtration ranges between 2 and 55 microns, can be easily changed without removing the filter from the line. Standard connections are 1/4 FNPT. The optional bypass port is standard as 1/8 FNPT.

Features & Specifications

- 2 to 55 Micron Filtration
- Available with Optional Bypass

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F-6K Line Filter

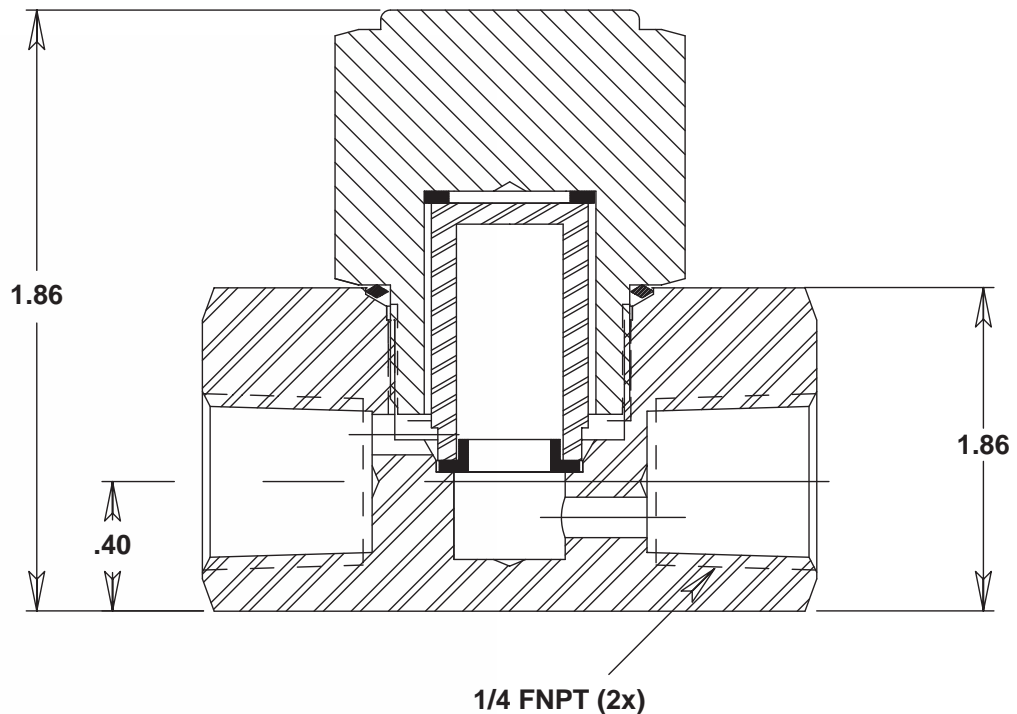
How to Order—See page 7 for ordering matrix.

Maximum Temperature & Operating Inlet Pressures

Seat Material	Maximum Temperature	@	Maximum Operating Inlet Pressure
Viton®	70° F (20° C)	@	6000 psiG (41.37 MPa)
	175° F (80° C)	@	3600 psiG (24.82 MPa)
Teflon®	70° F (20° C)	@	6000 psiG (41.37 MPa)
	150° F (66° C)	@	3600 psiG (24.82 MPa)

Viton® and Teflon® are registered trademarks of Dupont.

Outline and Mounting Dimensions



Weight = 0.6 lbs (0.27 kg)



GO REGULATOR

Cyclone Single and Dual Element Type Filter

The Cyclone filter's unique design provides an unsurpassed combination of rapid response, minimum dead volume and high filtration efficiency. Using the proven bypass design, a large sample flow is brought to the filter so the sample transport lag time is minimized. Only that portion of the sample needed for the process analyzer passes through the filter element. In this manner, low filtration rates and rapid responses are achieved. Careful flow design causes the unfiltered portion of the sample to sweep the filter element's surface to greatly extend the element's life. With the simple installation of a pipe plug in the bypass port, the Cyclone bypass filter can be converted to a line filter. All Cyclone filters have back-up screens to support the filter element and can be supplied with an optional stainless steel mounting bracket. Cyclone filters are available in two standard materials, 316 stainless steel and Monel. On special order, filters can be supplied in other machinable materials.

Features & Specifications

- Material of construction is 316L stainless steel
- Available in Monel, Hastelloy, or Titanium
- Filter element material is a Teflon® membrane
- O-ring seal material is available in either Teflon® or Viton®
- Available filter element porosities are 0.2, 1.0, 5.0 and 10 microns
- Minimum flow rate on filtered side is 100cc/min of vapor or 50ml/in of liquid
- Minimum flow rate on bypass side should be about 10 times the sample flow rate

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Cyclone Single and Dual Element Type Filter

How to Order—See page 8 for ordering matrix.
Specifications

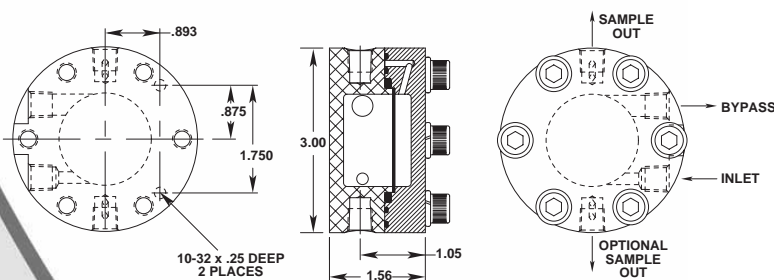
	Single Element	Double Element
Body Material	316 SS, Monel, (Hastelloy C), (Titanium)	
Filter Element Material	Teflon® Membrane	
O-ring Seal Material	Teflon® or Viton®	
Filter Element Pore Sizes	0.2, 1.0, 5.0 & 10	
Effective Filter Area	11.3 sq. cm., 1.78 sq. in.	22.6 sq. cm., 3.56 sq. in.
Internal Volume		
Filtered side	6.8 cu cm, 0.45 cu. in.	13.6 cu cm, 0.9 cu. in.
Bypass side	25.3 cu cm, 1.56 cu. in.	30.0 cu cm, 1.8 cu. in.
Pressure & Temperature Ratings	3600 PSIG @ 70° F (20° C) 1500 PSIG @ 175° F (80° C)	
Recommended Flow Rates	Minimum flow of 100 cc/min vapor and 50 ml/min liquid to minimize transport lag Flow should be about 10 times sample flow	
Connections	All connections are 1/8" or 1/4" Female NPT	
Weight	2.5 lbs (1.13kg)	3.2 lbs (1.45kg)

Maximum Temperature & Operating Inlet Pressures

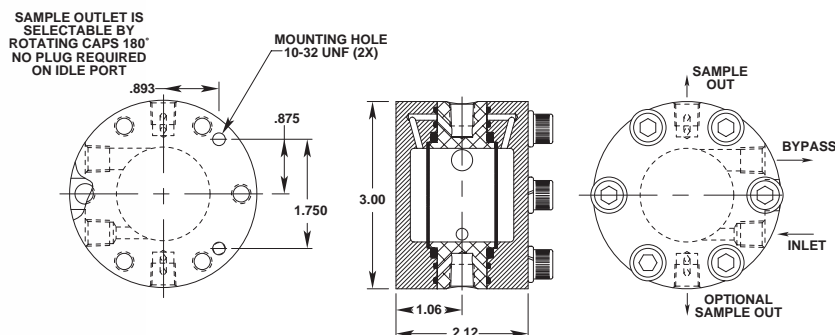
Seat Material	Maximum Temperature	@	Maximum Operating Inlet Pressure
Viton®	70° F (20° C)	@	3600 psiG (24.82 MPa)
	175° F (80° C)	@	1500 psiG (10.35 MPa)
Teflon®	70° F (20° C)	@	3600 psiG (24.82 MPa)
	150° F (66° C)	@	1500 psiG (10.35 MPa)

* Temperature in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option.
 Tefzel® and Teflon® are registered trademarks of Dupont.

SINGLE ELEMENT



DOUBLE ELEMENT



FILTER STYLE & MATERIAL	
101700	Inline, Stainless Steel, 1/4" FNPT Connections
101830	1/8" NPT Bypass, Stainless Steel, 1/4" FNPT Connections
101850	1/4" FNPT Bypass, Stainless Steel, 1/4" FNPT Connections
102980	Inline, Monel, 1/4" FNPT Connections
102981	1/8" FNPT, Bypass, Monel, 1/4" FNPT Connections
102982	1/4" FNPT Bypass, Monel, 1/4" FNPT Connections
107476	Inline, Stainless Steel, 1/4" MNPT Outlet, 1/4" FNPT Inlet
107519	1/8" Bypass, Stainless Steel, 1/4" MNPT Outlet, 1/4" FNPT Inlet
107518	1/4" Bypass, Stainless Steel, 1/4" MNPT Outlet, 1/4" FNPT Inlet

FILTER RATING	
1	2-5 Micron
2	5-9 Micron
3	10-15 Micron
4	20-30 Micron
5	40-55 Micron
6	100 Mesh
7	150 Mesh

O-RING MATERIAL	
1	Teflon®
2	Viton®

VOLUME	
1	Standard
2	Low Volume

F6K --



Filter Style & Material

Filter Rating

O-Ring Material

Volume

BODY MATERIAL

1	316L Stainless Steel
4	Monel
6	Hastelloy C

PORT TYPE

0	1/8" FNPT
1	1/4" FNPT

FILTER TYPE

1	Single Element
2	Dual Element

O-RING MATERIAL

D	Viton®
I	Teflon®

MICRON RATING

1	0.20 Micron
3	1.0 Micron
5	5.0 Micron
9	10-15 Micron

FILTER MOUNTING BRACKETT

1	Include Mounting Brackett
0	Omit Mounting Brackett

CF --



Body Material

Port Type

Filter Type

O-ring Material

Micron Rating

Mount Brackett