

Filters

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filters

GO Regulator

405 Centura Court • PO Box 4866 (29305) • Spartanburg, SC 29303
Phone (864) 574-7966 Fax (864) 574-5608
www.goreg.com • sales@goreg.com

F-4 Series In-line Filter



This filter is designed to be used as a standard in-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 products prior to shipment.

For your special requirements, this filter can be custom manufactured from 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 (μ) ratings of filtration available:
 - 10 μ sintered 316 stainless steel
 - 20 μ sintered 316 stainless steel
 - 50 μ sintered 316 stainless steel
 - 70 μ sintered 316 stainless steel
 - 100 μ 316 stainless steel mesh
 - 200 μ 316 stainless steel mesh
 - 300 μ 316 stainless steel mesh
- Pressures up to 6,000 psig (41.37 MPa)

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filters

F-4 Series In-line Filter

How to Order

Part No. 102120-10 Standard filter with 10 micron nominal filtration

If other than the standard 10 micron (μ) filtration is desired, specify by the use of a dash number. For example: 102120-20 for 20 micron sintered 316 stainless steel filtration or 102120-200 for 200 micron stainless steel mesh filtration.

F4 102120 - 10

FILTER STYLE

102120 Stainless steel, 1/4" FNPT inlet, 1/4" MNPT outlet

FILTER RATING

10 10 μ sintered 316 stainless steel
20 20 μ sintered 316 stainless steel
50 50 μ sintered 316 stainless steel
70 70 μ sintered 316 stainless steel
100 100 μ 316 stainless steel mesh
200 200 μ 316 stainless steel mesh
300 300 μ 316 stainless steel mesh

NOTE: The choices above represent an abbreviated list of the more commonly ordered options. For a complete listing of all available options, please see the Selection Wizard on the GO website at www.gore.com or contact the factory.

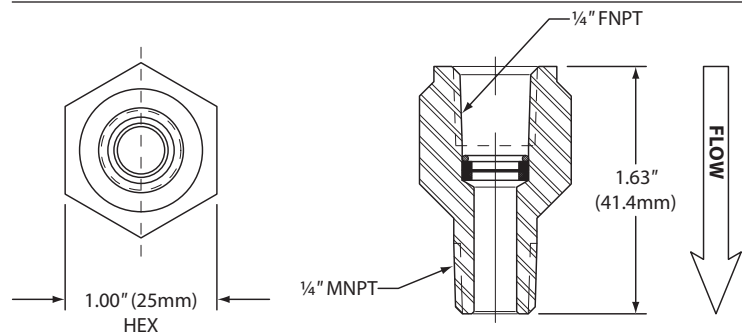
Maximum Temperature & Operating Inlet Pressures

Maximum Temperature	@	Operating Inlet Pressure
450° F (232° C)	@	6,000 psig (41.37 MPa)

Repair Kit Information

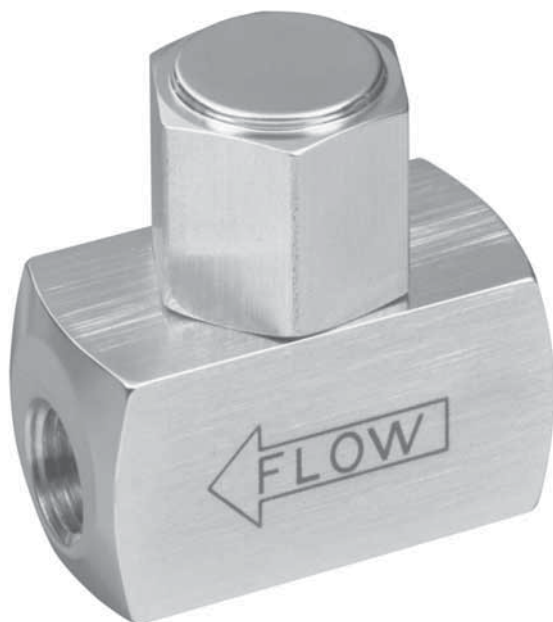
Part Number	Description
100089	Screen filter kit (specify porosity)
G100089-10	10 μ nominal filtration
G100089-20	20 μ nominal filtration
G100089-50	50 μ nominal filtration
G100089-70	70 μ nominal filtration
G100089-100	100 μ nominal filtration
G100089-150	150 μ nominal filtration
G100089-200	200 μ nominal filtration
G100089-300	300 μ nominal filtration

Outline Dimensions



GO REGULATOR

F-6K In-line or Bypass Filter



The F-6K in-line or bypass filter has been designed with bar stock construction to provide reliable and economical filtration of streams having pressures up to 6,000 psig (41.37 MPa) at 70° F (20° C).

Materials of construction (standard) 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 (option) from Monel® or Hastelloy® C-276. The sintered 316 stainless steel filter element, with filtration ranges between 2 and 55 microns (μ), can be easily changed without removing the filter from the line. Standard connections are $\frac{1}{4}$ " FNPT. The optional bypass port is standard as $\frac{1}{8}$ " FNPT.

Features & Specifications

- Nominal ratings of filtration available:
 - 2–5 μ sintered 316 stainless steel
 - 5–9 μ sintered 316 stainless steel
 - 10–15 μ sintered 316 stainless steel
 - 20–30 μ sintered 316 stainless steel
 - 40–55 μ sintered 316 stainless steel
 - 100 μ 316 stainless steel mesh
 - 150 μ 316 stainless steel mesh
 - Available with optional bypass
-

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filters

F-6K In-line or Bypass Filter

How to Order

F6K 101700 - 3 I 1

FILTER STYLE & MATERIAL

- 101700** In-line, 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** In-line, 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** In-line, 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

VOLUME

- 1** Standard
- 2** Low volume

O-RING MATERIAL

- I** Teflon®
- D** Viton®

FILTER RATING

- 1** 2–5µ sintered 316 stainless steel
- 2** 5–9µ sintered 316 stainless steel
- 3** 10–15µ sintered 316 stainless steel
- 4** 20–30µ sintered 316 stainless steel
- 5** 40–55µ sintered 316 stainless steel
- 6** 100µ 316 stainless steel mesh
- 7** 150µ 316 stainless steel mesh

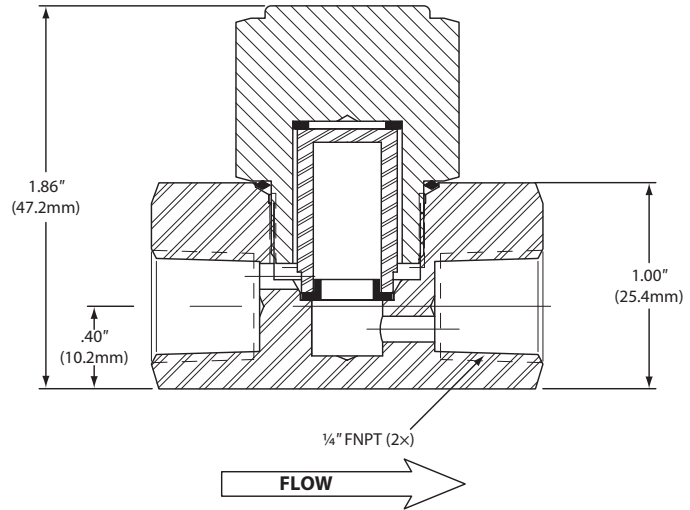
NOTE: The choices above represent an abbreviated list of the more commonly ordered options. For a complete listing of all available options, please see the Selection Wizard on the GO website at www.goreg.com or contact the factory.

Maximum Temperature & Operating Inlet Pressures

Seal Material	Maximum Temperature	@	Operating Inlet Pressure
Viton®	70° F (20° C)	@	6,000 psig (41.37 MPa)
	175° F (80° C)	@	3,600 psig (24.82 MPa)
Teflon®	70° F (20° C)	@	6,000 psig (41.37 MPa)
	150° F (66° C)	@	3,600 psig (24.82 MPa)

Outline Dimensions

Weight = 0.6 lbs (0.27kg)



Repair Kit Information

Stainless Steel

Part Number	Description
101705	In-line 2–5µ range
101706	In-line 5–9µ range
101707	In-line 10–15µ range
101708	In-line 20–30µ range
101709	In-line 40–50µ range
101855	In-line 100µ mesh element
101833	Bypass 2–5µ range
101832	Bypass 5–9µ range
101834	Bypass 10–15µ range
101835	Bypass 20–30µ range
101836	Bypass 40–55µ range

Monel®

Part Number	Description
103861	In-line 2–5µ range
103862	In-line 5–9µ range
103863	In-line 10–15µ range
103864	In-line 20–30µ range
103865	In-line 40–50µ range
103866	Bypass 2–5µ range
103867	Bypass 5–9µ range
103868	Bypass 10–15µ range
103869	Bypass 20–30µ range
103870	Bypass 40–55µ range

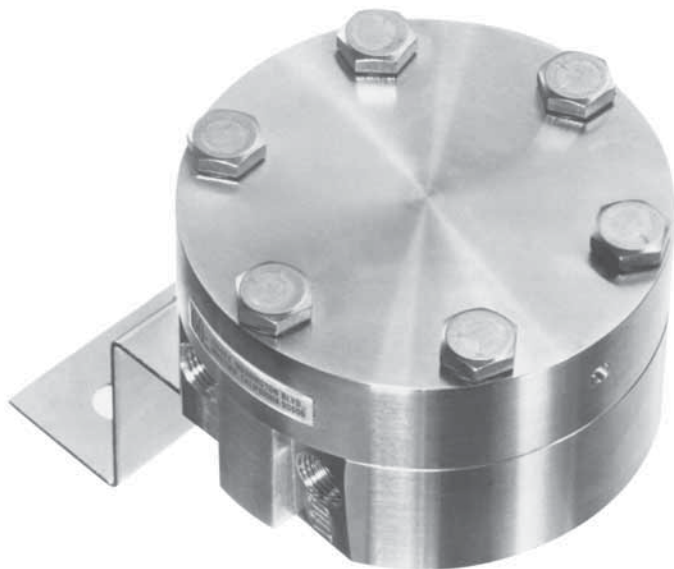
Monel® is a registered trademark of Special Metals Corporation.

Hastelloy® C-276 is a registered trademark of Haynes International, Inc.

Viton® is a registered trademark of DuPont Dow Elastomers

Teflon® is a registered trademark of the DuPont Company.

Cyclone Single or Dual Element Bypass-type Filter



The Cyclone filter's unique design provides an unsurpassed combination of rapid response, minimum dead volume and high efficiency filtration. Using the proven bypass design, a large sample flow is passed through the filter body 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 rate and rapid response are both 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 an in-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 three materials: 316L stainless steel, Monel®, and Hastelloy® C-276. On special order, filters can be supplied in most other machinable materials

Features & Specifications

- Materials of construction are 316L stainless steel and Monel® (standard)
- Available in Hastelloy® C-276 and other machinable materials (optional)
- Filter element material is a Teflon® membrane
- O-ring seal material is available in either Viton® or Teflon®
- Available filter element porosities are 0.2, 1.0, 5.0 and 10–15 micron
- Minimum sample flow rate on filtered side is 100cc/min of vapor or 50ml/min of liquid
- Minimum process flow rate on bypass side should be about 10 times the filtered sample flow rate

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Cyclone Single or Dual Element Bypass-type Filter

How to Order

CF - 1 1 2 D 5 0

BODY MATERIAL

- 1 316L stainless steel
- 4 Monel®
- 6 Hastelloy® C-276

PORT TYPE

- 0 ½" FNPT
- 1 ¼" FNPT

FILTER TYPE

- 1 Single element
- 2 Dual element

FILTER MOUNTING BRACKET

- 1 Include mounting bracket
- 0 Omit mounting bracket

MICRON RATING

- 1 0.2 micron
- 3 1.0 micron
- 5 5.0 micron
- 9 10–15 micron

O-RING MATERIAL

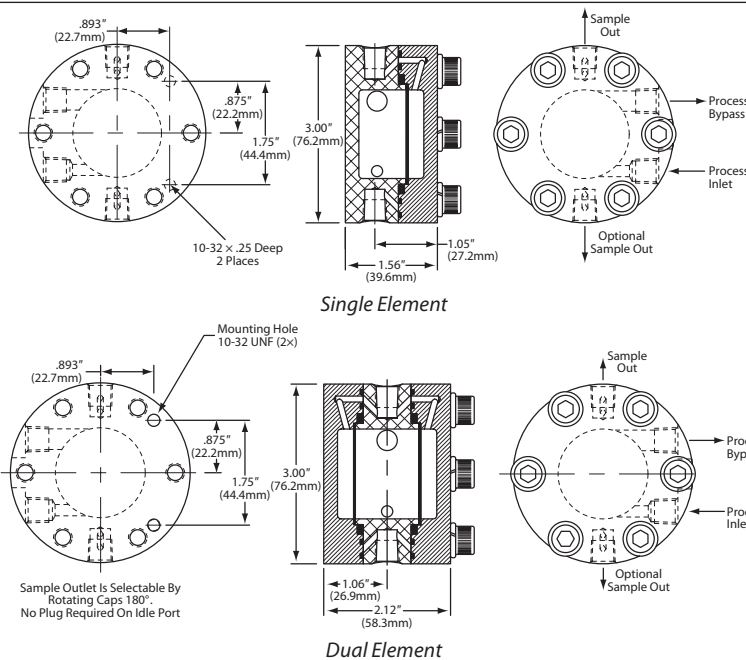
- D Viton®
- I Teflon®

NOTE: The choices above represent an abbreviated list of the more commonly ordered options. For a complete listing of all available options, please see the Selection Wizard on the GO website at www.gore.com or contact the factory.

Specifications

	Single Element	Dual Element
Body Material	316L stainless steel, Monel®, (Hastelloy® C-276)	
Filter Element Material	Teflon® membrane	
O-ring Seal Material	Teflon® or Viton®	
Filter Element Pore Sizes	0.2, 1.0, 5.0 & 10–15 microns	
Effective Filter Area	1.78 in ² (11.3 cm ²)	3.56 in ² (22.6 cm ²)
Internal Volume		
Filtered Side	0.45 in ³ (6.8 cm ³)	0.9 in ³ (13.6 cm ³)
Bypass Side	1.56 in ³ (25.3 cm ³)	1.8 in ³ (30.0 cm ³)
Pressure & Temperature Ratings	3,600 psig @ 70° F (20° C) 1,500 psig @ 175° F (80° C)	
Recommended Flow Rates	Minimum sample flow rate of 100 cc/min vapor or 50 ml/min liquid to minimize sample transport lag Process flow should be about 10 times sample flow	
Filtered Side		
Bypass Side		
Connections	All connections are ½" or ¼" female NPT	
Weight	2.5 lbs (1.13 kg)	3.2 lbs (1.45 kg)

Outline Dimensions



Maximum Temperature & Operating Inlet Pressure

Seal Material	Maximum Temperature	@	Maximum Operating Inlet Pressure
Viton®	70° F (20° C)	@	3,600 psig (24.82 MPa)
	175° F (80° C)	@	1,500 psig (10.35 MPa)
Teflon®	70° F (20° C)	@	3,600 psig (24.82 MPa)
	150° F (66° C)	@	1,500 psig (10.35 MPa)

Repair Kit Information

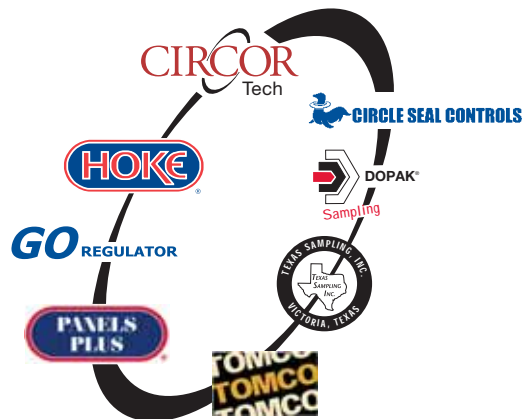
Single Cyclone

Part Number	Description
100622-11	St. steel filter kit with Teflon® o-rings, 0.2µ filter element
100622-12	St. steel filter kit with Viton® o-rings, 0.2µ filter element
100622-21	St. steel filter kit with Teflon® o-rings, 1.0µ filter element
100622-22	St. steel filter kit with Viton® o-rings, 1.0µ filter element
100622-31	St. steel filter kit with Teflon® o-rings, 5.0µ filter element
100622-32	St. steel filter kit with Viton® o-rings, 5.0µ filter element
100622-41	St. steel filter kit with Teflon® o-rings, 10–15µ filter element
100622-42	St. steel filter kit with Viton® o-rings, 10–15µ filter element

Dual Cyclone

Part Number	Description
100623-11	St. steel filter kit with Teflon® o-rings, 0.2µ filter element
100623-12	St. steel filter kit with Viton® o-rings, 0.2µ filter element
100623-21	St. steel filter kit with Teflon® o-rings, 1.0µ filter element
100623-22	St. steel filter kit with Viton® o-rings, 1.0µ filter element
100623-31	St. steel filter kit with Teflon® o-rings, 5.0µ filter element
100623-32	St. steel filter kit with Viton® o-rings, 5.0µ filter element
100623-41	St. steel filter kit with Teflon® o-rings, 10–15µ filter element
100623-42	St. steel filter kit with Viton® o-rings, 10–15µ filter element

Monel® is a registered trademark of Special Metals Corporation.
Hastelloy® C-276 is a registered trademark of Haynes International, Inc.
Viton® is a registered trademark of DuPont Dow Elastomers
Teflon® is a registered trademark of the DuPont Company.



Hoke • GO Regulator • Tomco • CIRCOR Tech

405 Centura Court • PO Box 4866 (29305)

Spartanburg, SC 29303

Tel (864) 574-7966 • Fax (864) 587-5608

www.circortechnologies.com

**CIRCOR Instrumentation
Technologies**

Central Europe

Leeuwenhoekweg 24

2661 CZ Bergschenhoek

The Netherlands

Tel +31 10 4206011 • Fax +31 10 4566774

www.circortechnologies.com

Hoke Controls / Panels Plus

2054 Francis St.

Ontario, CA 91761

Tel (909) 923-3770

Fax (909) 923-2550

www.circor-panelsplus.com

Texas Sampling, Inc

3706 Rio Grande

Victoria, Texas 77901

Tel (361) 575-8087

Fax (361) 575-8157

www.texassampling.com

CIRCOR Instrumentation, Ltd.

1-3 Bouverie Road

Harrow

Middlesex, HA1 4HB

UK

Tel +44 18 9520 6780

Fax +44 18 9520 6781

www.circor.co.uk

Dopak Inc.

9572 Kempwood

Houston, Texas 77080

Tel (713) 460-8311

Fax (713) 460-8578

www.dopak.com

**Circle Seal
Controls, Inc.**

2301 Wardlow Circle

Corona, CA 92880

Tel (951) 270-6200

Fax (951) 270-6201

www.circlesealcontrols.com

Hoke GmbH

Weitzesweg 11

Postfach 1541

D-61118 Bad Vilbel-Dortelweil

Germany

Tel +49 6101 82 56 0

Fax +49 6101 82 56 40

www.hoke.de

CIRCOR Instrumentation Technologies

CIRCOR Instrumentation Technologies (CIT) is a product group of CIRCOR International (NYSE: CIR), specializing in fluid process control solutions with orifice sizes typically up to 1". Our main product lines include ball, needle, packless, diaphragm, solenoid, and metering valves, pressure regulators, quick couplers, Gyrolok® compression tube fittings, and fully integrated sampling systems.

CIT markets primarily to the petrochemical, refining, power generation, food and beverage, semiconductor, and pharmaceutical industries, and to OEM's. CIT separates itself from the competition by offering highly engineered components manufactured to exacting standards and a variety of custom options.