

CUNO™ EF GP Series

Self Cleaning Metal Filter System

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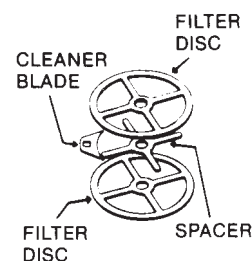
The CUNO™ EF GP series self cleaning metal filter is an all metal cleanable edge type filter designed for high pressure applications. The threaded aluminum sump is O-ring sealed to the head for quick reduction without disturbing pipe connections. Mounting holes and sump drain are provided to allow ease of installation and operation.

Applications

Coatings	Adhesives
Food & Beverage	Syrups
Oil & Gas	Lubricating oils, Bunker "C", Quenching oils, Cooling oils, Cutting oils, Diesel oils, Fuel oils, Tar, Wax, Grease

Theory of Operation

The CUNO EF GP series self cleaning metal filter cartridge is an assembled unit composed of a stack of alternating metal discs and spacers of uniform thickness on a rotatable metal shaft. The thickness of the spacer determines the degree of filtration. The CUNO EF GP series filter is available in spacings from 0.003" to 0.008".



Cleaning blades are mounted on a stationary rod adjacent to the cartridge stack and extend into the

openings between the discs. Turning the cartridge handle rotates the disc and spacer assembly past the fixed cleaner blades. By rotating the cartridge, in either direction, the particles lodged between the discs are positively reduced or "combed" from the surface without interruption of flow. Drain as often as experience indicates is necessary.

Flow Capacity

The flow rates listed in Table 1 are based on clean fluid with a pressure drop of 3 psi. Flow rates for other viscosity fluids are approximately proportional. Select a filter model according to the nature and concentration of the contaminant to be reduced.

Table 1. – Model GP Flow Rates

Spacing (in.)	Screen Mesh Equiv.	Free Area (in ²)	Viscosity in SSU			
			100	300	700	2000
			Flow in gpm			
0.003	200	3.0	5.0	3.1	1.8	1.0
0.005	120	4.0	6.0	3.9	2.4	1.4
0.008	70	5.4	6.6	4.6	2.7	1.7

Features & Benefits

Cleanable design

- Reduces used filter cartridge disposal

Positive cleaning action with no interruption of flow or service

- Maximizes process up-time

Rugged all metal construction for trouble-free operation

- Can handle highly viscous fluids
- Can be used on suction side of pumps

Catalog Numbers

Model	Spacing (in.)	Filter Catalog Number	Cartridge Catalog Number
GP	Steel Cartridge		
	0.003	13087-01-50-0030	13131-09-50-0030
	0.005	13087-01-50-0050	13131-09-50-0050
	0.008	13087-01-50-0080	13131-09-50-0080

For replacement parts, contact your 3M Purification Representative.



Specifications

Table 2 lists the Model GP general specifications.

Table 2. – Model GP Specifications

General Filter Data	
Inlet/Outlet Connection	1" NPTF
Drain	3/4" - 16AN814-8DL
Max. Operating Pressure	3000 psi @ 300 °F
Sludge Capacity	5.7 in ³
Shipping Weight	9 lbs
Housing Data	
Head	Anodized Aluminum
Sump	Anodized Aluminum
Head Gasket	Buna N O-ring
Gland Seal	Buna N O-ring
Cartridge Data	
Diameter	1 1/4"
Length	4 1/2"
Material*	Steel
Spacing	0.003", 0.005", or 0.008"

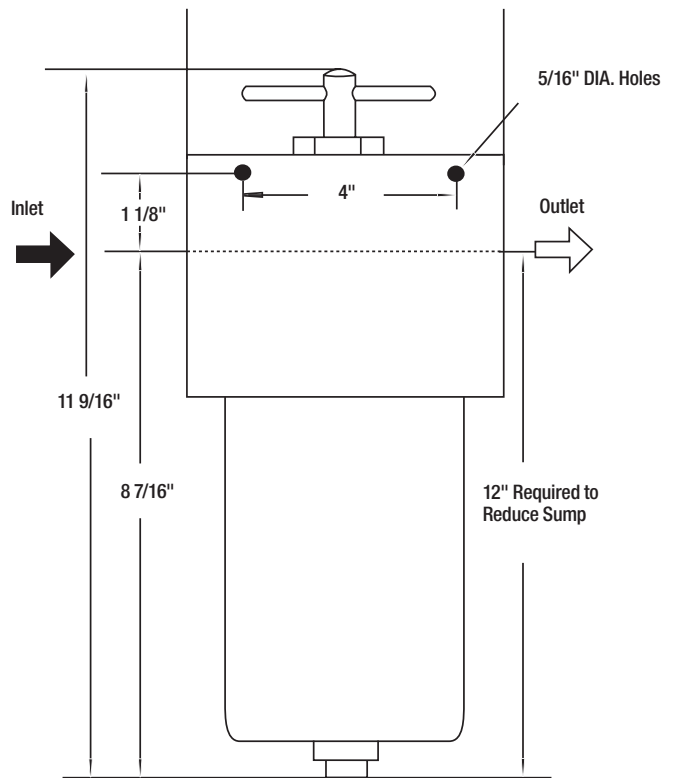


Figure 1. – Model GP Dimensions

Dimensions

Rough plumbing dimensions for the Model GP are given in Figure 1.

Allow enough space for sump reduction.

Important Notice

The information described in this literature is accurate to the best of our knowledge. A variety of factors, however, can affect the performance of the Product(s) in a particular application, some of which are uniquely within your knowledge and control. **INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING THE SAME WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR USE. IN NO EVENT WILL 3M PURIFICATION INC. BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION.**

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3M Purification Inc.
 400 Research Parkway
 Meriden, CT 06450
 U.S.A.
 Phone (800) 243-6894
 (203) 237-5541
 Fax (203) 630-4530
 www.3Mpurification.com

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