# FOS, FOSBN and FOC Series

Single Cartridge Filter Housings with Bolt & Nut Closure for Liquids





- Designed for industrial and commercial filter applications
- Heavy duty construction for maximum durability
- Various materials of construction for wide range of process requirements
  - 304L or 316L stainless steel (FDA / Food Grades)
  - Brass nickel plated head with 304L SS body
  - Cast Iron Head with a steel body
- · Accepts Double Open-End (DOE) cartridges
- Available with 1/2", 3/4", and 1" connections.
- Numerous gasket options for compatibility with most fluids
- Bolt-nut-closure design for quick cartridge change outs (T-handle optional)
- In line connections for easy installation
- Knife edge seals at both end of cartridge housing eliminate potential bypass.

## **Applications**

Water Desalination
Chemicals Food & Beverage

Electronics Oil / Gas

Air & Gases Inks / Paints / Coatings

Coolants Pulp & Paper

## **Specifications & Operating Parameters**

## **Maximum Operating Pressure**

250 psig (17 bar) @ 275°F (135°C)

#### **Connections**

Inlet /Outlet: 1/2", 3/4" or 1" FNPT

Options: BSPT, BSPP, RF Flanges, Sanitary Ferrules

Drain Port: 1/8" NPT (1/4" for FO-38 models)

#### Gaskets

Buna (Standard)

Optional: EPR, Silicone, Viton, Teflon, Neoprene, Vellumoid

#### Materials of Construction

Head / Shell: FOS - 304L or 316L Stainless Steel

FOSBN - Brass nickel plated / 304L Stainless Steel

FOC - Cast iron head / carbon steel

Drain: FOS - Stainless Steel Plug FOSBN - Brass Petcock FOC - Brass Petcock

## **Options**

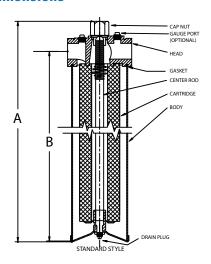
- Vent Port with Vent Screw
- Gauge Ports
- Bracket Kit
- Tee Handle

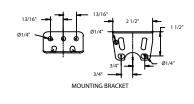
See Ordering Guide for complete selection of options

MODEL	QUANTITY (LENGTH) OF CARTRIDGES	RATED FLOW CAPACITY* GPMLPM)	MAXIMUM DIAMETER CARTRIDGE	DRAIN SIZE	STANDARD	
					Α	В
F0-38	1 (3 3/4")	1.75 (6.6)	2 3/4"	1/4"	7 11/16" (19.5)	5 3/4" (26.1)
FO-39	1 (4 7/8")	2.5 (9.46)	2 3/4"	1/8"	8 7/8" (22.5)	6 15/16" (17.6)
F0-78	1 (9 3/4")	5 (18.93)	2 3/4"	1/8"	13 3/4" (34.9)	11/13/16" (33.0)
FO-80	1 (20")	10 (37.85)	2 3/4"	1/8"	23 7/8" (60.6)	21 15/16" (55.7)
FO-90	1 (30")	15 (56.78)	2 3/4"	1/8"	33 7/8" (86.0)	31 15/16" (81.1)

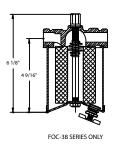
<sup>\*</sup> Based upon 5 gpm per 10" length with a 20 micron wound cartridge at 1 PSID clean and viscosity of 1 cps. Flow rates are for guidelines only, Actual flow rates are based on fluid, viscosity, cartridge type, micron ratings and other factors.

### **Dimensions**









## Ordering Guide (Example: FOS-786-316-TH-E)

F0	S	- 78	6	- 316 -	тн -	- Е
MODEL	MATERIAL*	CARTRIDGE LENGTH+	PIPE SIZE FNPT	OPTIONAL MATERIAL	OPTIONS	GASKET
FO	S = 304L Stainless Steel with stainless steel drain plug. FDA / Food Grade  SBN = Brass Nickel Plated Head with 304L Stainless Steel sump and brass petcock drain  C = Cast iron head with steel sump and brass petcock drain	38 = 3 3/4" 39 = 4 7/8" 78 = 9 3/4" 80 = 20" 90 = 30"	4 = 1/2" 6 = 3/4" 8 = 1"	Blank = None 316 = 316L	Blank = None BSPT = BSP Tapered threads BSPP = BSP Parallel threads 1F = 1" Flange++ 1TC = 1" Ferrules++ GP4 = 1/4" Gauge Ports BR = Bracket Kit TH = Tee Handle 10 = 10" Cartridge Length Vent = Vent Screw	Blank = Buna N E = EPR S = Silicone V = Viton T = Teflon N = Neoprene Vell = Vellumoid  Cap Nut Only HC = Hard Commercial Fiber

Housings may be customized to meet your precise requirements. Contact Shelco's technical support staff or your distributor for more information.



## **Shelco Filters**

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<sup>+</sup> Available in 10"- see options in ordering guide ++ Available only in FOS stainless steel series. Maximum pressure rating for RF flanges and sanitary ferrules is 150 psi (10.3 bar) \* FOSBN and FOC are not to be used with potable water or food grade products. FOC is not to be used on water service.