# 12FOS and 22FOS Series

Multi-Cartridge Filter Housings





- · Designed for industrial and commercial filtration needs
- Heavy-duty 304L or 316L stainless steel construction for maximum durability and corrosion resistance
- V-band clamp or swing bolt closures for quick and easy cartridge change outs and secure sealing
- Holds 30" or 40" cartridge lengths to accommodate a wide range of flow rates
- Accepts double open-ended (DOE) style cartridges (222 and 226 style adapters are optional)
- Knife edge seals eliminate bypass on DOE cartridges
- Top spring seals allow for cartridge length variations
- · Flange inlet and outlet connections allow for easy piping
- · Equipped with heavy-duty stainless steel mounting legs

# **Applications**

Water Desalination
Chemicals Food & Beverage

Electronics Oil / Gas

Power Inks / Paints / Coatings

Coolants Pulp & Paper

## **Specifications & Operating Parameters**

## **Maximum Operating Pressure**

150 psig (10.3 bar) @ 300°F (149°C)

## **Inlet and Outlet Connections**

Inlet /Outlet: 3" (12FOS) and 4" (22FOS) RF Flanges

Drain Ports: 1/2" FNPT

Vent Ports: 1/4" FNPT (12FOS), 1/2" FNPT (22FOS)

Optional: RF flanges, Sanitary ferrules, MNPT,
FNPT, BSP and Grooved fittings.

#### **Materials of Construction**

Head and Shell: 304L or 316L Stainless Steel Connections: 304L or 316L Stainless Steel Closure: Clamp: 304L Stainless Steel Swing Bolts: Zinc Plated Steel

Vent and Drain Plugs: 304L or 316L Stainless Steel

Mounting Legs: 304L Stainless Steel

#### Gaskets

Buna N (FDA Grade)

Optional: EPR, Silicone, Viton or Teflon Encapsulated Silicone

#### **Finish**

Poly-coat on exterior surfaces

Optional: Electro-polish, Glass bead or Passivate

#### Cartridge Type

DOE style cartridges (maximum 2 3/4" diameter for 12FOS and 2 5/8" diameter for 22FOS series)

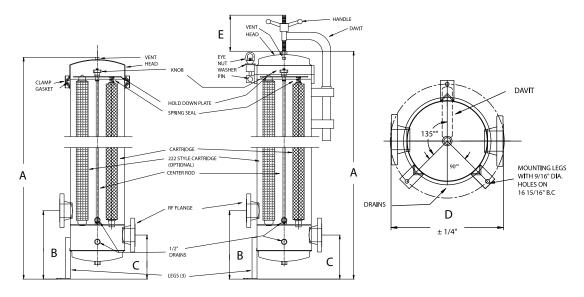
Optional: 222 and 226 adapters. For 2 3/4" cartridge 22FOS series holds twenty-one cartridges... order as 21FOS housing.

## **Custom Options**

- Gauge Ports or Gauge Ports with Pressure Gauges See Ordering Guide for complete selection of options

MODEL	QUANTITY (LENGTH) OF CARTRIDGES +	FLOW	INLET / OUTLET (PIPE SIZE)	MAXIMUM DIAMETER CARTRIDGE	STYLE	SWING BOLT STYLE				
					Α	Α	В	С	D	E
12F0S2	12 (20")	168 (636)	3"	2 3/4"	39 1/2" (100.3 cm)	40 1/2" (102.9 cm)	15 3/8" (39.1 cm)	10" (25.4 cm)	16 11/16" (42.5 cm)	8" (20.3 cm)
12F0S3	12 (30")	252 (954)	3"	2 3/4"	49 1/2" (125.7 cm)	50 1/2" (128.3 cm)	15 3/8" (39.1 cm)	10" (25.4 cm)	16 11/16" (42.5 cm)	8" (20.3 cm)
12F0S4	12 (40")	336 (1272)	3"	2 3/4"	59 1/2" (151.1 cm)	60 1/2" (153.7 cm)	15 3/8" (39.1 cm)	10" (25.4 cm)	16 11/16" (42.5 cm)	8" (20.3 cm)
22F0S3**	22 (30")	462 (1749)	4"	2 5/8" **	50 3/16" (127.5 cm)	50 3/16" (127.5 cm)	15 1/4" (38.7 cm)	9 1/2" (24.1 cm)	21" (53.3 cm)	12" (25.4 cm)
22F0S4**	22 (40")	616 (2332)	4"	2 5/8" **	60 3/16" (152.9 cm)	50 3/16" (127.5 cm)	15 1/4" (38.7 cm)	9 1/2" (24.1 cm)	21" (53.3 cm)	12" (25.4 cm)

- Housings will accept cartridge lengths: 10" = (9 3/4" or 10"), 20" = (19 1/2" or 20"), 30" = (29 1/4" or 30") and 40" = (39" or 40")
  Based upon 7 gpm per 10" length with a 25 micron wound cartridge at 2 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.
  When using 222 or 226 connectors, you must change to a 21FOS housing (21 round) for 2 3/4" OD cartridges.



# Ordering Guide (Example: 12FOS3SB-316-222-3F-GP-B)

12F0S	3	SB	- 316 -	222	- 3	F -	GP -	В
MODEL	LENGTH OF CARTRIDGES	CLOSURE STYLE	MATERIAL	CARTRIDGE CONFIGURATION	CONNECTION SIZE	CONNECTION Type	OPTIONS	GASKET
12F0S 22F0S	2 = 2 High 3 = 3 High 4 = 4 High	C = Clamp SB = Swing Bolt	316 = 316L	Blank = DOE Style Cartridges (Standard)  222 = 222 Fin/Flat Style Cartridges  226 = 226 Fin/Flat Style Cartridges	4 = 4"	F= Flange (Standard) TC = Ferrules GF = Grooved Fittings MNPT = Male NPT* FNPT = Female NPT*	GP = Gauge Ports  GPA = Gauge ports with Gauges  EP = Electro-Polish GB = Glass Bead P = Passivate	B = Buna N (Standard) E = EPR S = Silicone V = Viton TS = Teflon Encapsulated Silicone

<sup>\*</sup> Available in 2" sizes

#### **Customization**

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



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