

## FlowTech M 150 Mini-Cartridge Filter Housing Super Clean Design



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The FlowTech M150 mini-cartridge housings are designed for lower volume, low flow rate applications requiring an economical, high quality, easy to clean design. FlowTech's M150 filter housings offer the user an economical, convenient and compact design, and are used widely in the pharmaceutical, process chemical and food/beverage industries. These housings feature a sanitary clamp closure with a sanitary style seal. The overall compact design results in minimum wetted surfaces for easy cleaning. All 316L stainless steel is standard with many other alloys available.

### **DESCRIPTION**

The M150 housing is designed for the Mini-Style (Internal - 116 O-ring) filter cartridge. It is suitable for many liquid and gas applications.

- ▶ High temperature and pressure capabilities
- ▶ Three bowl lengths available
- ▶ Easy cartridge change out
- ▶ Vents and drains to suit
- ▶ Several surface finishes available

### **MATERIALS**

- ▶ All 316L stainless steel (standard)
- ▶ Hastelloy and other alloys available
- ▶ Sanitary seal: Teflon Encapsulated Silicon standard (all other commercial elastomers can be provided)

### **STERILIZATION**

- ▶ Steamable in-situ or autoclavable

### **SURFACE FINISHES (Interior/Exterior)**

- ▶ Glass bead blast: 120 grit, 150 grit, 180 grit
- ▶ Electropolished
- ▶ Any combination of above

### **Bowl Sizes**

- ▶ Half, Standard and Double lengths (see drawing)



### **OPERATING CONDITIONS**

- ▶ Design Pressure: 150 psi standard
- ▶ Design temp: 250° (130 °C) (filter cartridge and o-ring material dependent)
- ▶ Flow capability: 8 gpm (H<sub>2</sub>O) 30 SCFM (filter micron rating dependent)

### **CLOSURE**

- ▶ Heavy duty sanitary clamp

### **CONNECTIONS**

- ▶ Inlet/Outlet: NPTF, Sanitary or Butt Weld
- ▶ Vents and bowl drain: To suit.

### **CARTRIDGE SEAL STYLES**

- ▶ M Code (- 116 internal o-ring)

Note: See part numbering system for further details



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**HEAD STYLE/PRESSURE RATING**  
M150=Flat Cover/External Fittings/150 psi

**CONFIGURATION**  
T=T style  
J=Straight in/Elbow out  
L=Elbow in/Straight out  
X=Any special configuration

**CARTRIDGE LENGTH**  
H=1.85" [Half]  
S=3.42" [Standard]  
D=4.75" [Double]

**MATERIALS OF CONSTRUCTION**  
C=Carbon steel  
L=316L Stainless Steel  
A=Special alloys

**CARTRIDGE SEAL DESIGN**  
M=-116 Internal O-ring

**O-RING MATERIAL**  
BN=Buna-N  
EP=EPDM  
VI=Viton  
EH=EPDM [High temp]  
SI=Silicone  
NE=Neoprene  
TS=Teflon Encapsulated Silicone  
TV=Teflon Encapsulated Viton

**CLOSURE**  
0=Sanitary Clamp

**FINISH**  
2=Mechanical polish  
[120 grit]  
5=Dairy polish [150]  
8=Sanitary polish[180]  
B=Glass bead blast  
P=Pickle/passivate  
E=Electropolish  
S=Sanitary [Electropolish  
over 180 grit in & out]

**VENTS**  
0=No vents  
1=1/4" NPT [1 vent]  
2=1/4" NPT [2 vents]  
3=1/8" NPT [1 vent]  
4=1/8"NPT [2 vents]  
5=Sanitary [1 vent]  
6=Sanitary [2 vents]

**DRAINS**  
N=No drains  
O=1/4" NPT  
F=1" Sanitary flange  
M=1/2" Sanitary flange

**CONNECTION SIZE/TYPE**  
02NF=1/4" Female NPT  
03NF=3/8" Female NPT  
05NF=1/2" Female NPT  
07NF=3/4" Female NPT  
10SA=1" Sanitary Flange  
02BW=1/4" Butt Weld  
03BW=3/8" Butt Weld  
05BW=1/2" Butt Weld



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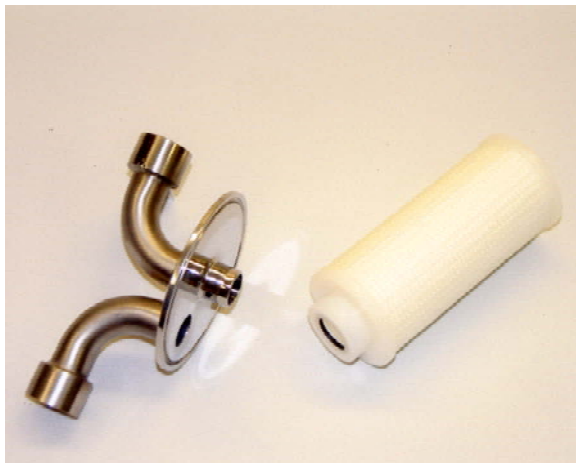
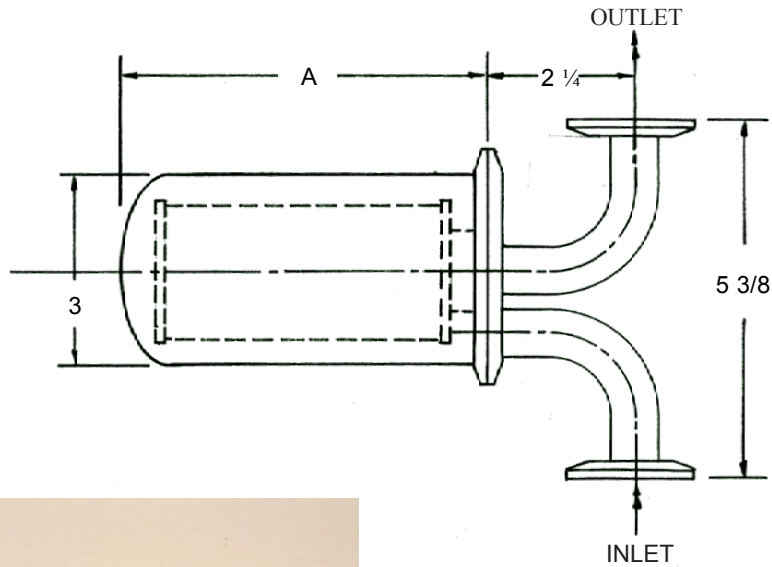
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SCALE: None  
DATE: 07.02.03

<b>A</b>	2-7/8	For H - Half Length
	4 -1/2	For S - Standard Length
	5 3/4	For D - Double Length

Part # M150 TDLM-TV105A - N020 (shown)



Note: The body tube is 3" in diameter and the cartridge seal detail is machined entirely in the head of the filter vessel; therefore, internal volume and wetted surfaces are reduced to a minimum resulting in very low product hold-up and loss, providing economy in use and faster, easier clean-up.



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