

## For Commercial and Institutional Applications

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Series 77F-DI-125, 77F-DI-FDA-125

### Flanged, Wye Pattern, Cast Iron Strainers

Sizes: 2" – 12" (50 – 300mm)

Series 77F-DI-125, 77F-DI-FDA-125 Flanged, Wye Pattern, Cast Iron Strainers feature 304 stainless steel perforated screens, a cast iron flanged retainer cap and a drain/blowoff connection furnished with a closure plug. Series 77F-DI-FDA-125 also features a double coated, heat fused epoxy coating on the interior and exterior for FDA approved sanitary applications.

#### Features

- Flanges conform to American National Standards Institute, Class 125 (ANSI B16.1) and WW-S-2739 Type 2
- Lead Free\* cast iron body
- 304 Stainless steel perforated screens
- Cast iron flanged retainer cap with gasket tapped for closure plug
- Drain/Blowoff connection furnished with closure plug
- Series 77F-DI-FDA-125 comes with heat fused FDA approved epoxy coating (interior and exterior)

#### Models

77F-DI-125 — 2" – 12" (50 – 300mm) with flanged connections for water and steam service

77F-DI-FDA-125 — 2" – 12" (50 – 300mm) with flanged connections and double coated, heat fused FDA approved epoxy coating (interior and exterior) for water service only

#### Specifications (77F-DI-125)

A flanged, wye pattern, cast iron strainer to be installed as indicated on the plans. The strainer must have flanges that conform to American National Standards Institute, Class 125, 304 stainless steel perforated screens and a drain/blowoff connection furnished with a closure plug. Pressure rating no less than 200psi (13.8 bar) WOG non-shock and 125psi (8.6 bar) WSP. Strainer shall be a Watts Series 77F-DI-125.

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.



77F-DI-FDA-125

#### Pressure – Temperature

Maximum Operating Pressure:  
200psi (13.8 bar) WOG, non-shock, @ 210°F (99°C)  
125psi (8.6 bar) WSP @ 353°F (178°C)

#### Standard Screens

2" – 5" (50 – 125mm): 1/16" perforation  
6" – 8" (150 – 200mm): 1/8" perforation  
10" – 12" (250 – 300mm): 3/16" perforation

#### Screen Options

Wire Mesh Liners: 304 stainless steel (#20, #40, #60, #80, #100)  
Perforated Screens: 304 stainless steel (3/64", 1/16", 1/8", 3/16")

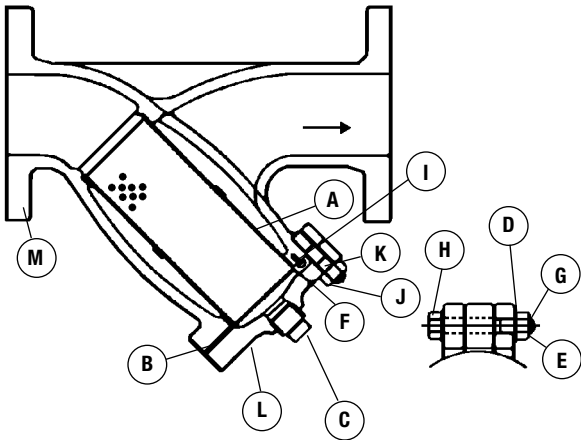
#### Specifications (77F-DI-FDA-125)

A flanged, wye pattern, cast iron strainer with a double coated, heat fused, FDA approved epoxy coating on the interior and exterior surfaces for FDA sanitary applications. Flanges to conform to ANSI B16.1 Class 125, 304 stainless steel perforated screens, and a drain/blowoff connection furnished with a closure plug. Pressure rating 200psi (13.8 bar) WOG. Strainer shall be a Watts Series 77F-DI-FDA-125.

#### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

## Materials



|           |                |                     |
|-----------|----------------|---------------------|
| <b>A.</b> | Screen         | AISI 304SS          |
| <b>B.</b> | Cover Gasket   | Graphite            |
| <b>C.</b> | Plug           | *ASTM A47           |
| <b>D.</b> | Washer         | ASTM A6             |
| <b>E.</b> | Cotter Pin     | ASTM A112           |
| <b>F.</b> | Plate          | *ASTM A6            |
| <b>G.</b> | Bolt Nut       | ASTM A6             |
| <b>H.</b> | Bolt           | ASTM A6             |
| <b>I.</b> | Set Screw      | ASTM B16            |
| <b>J.</b> | Cover Bolt Nut | ASTM A6             |
| <b>K.</b> | Cover Bolt     | ASTM A6             |
| <b>L.</b> | Cover          | *ASTM A-126 Class B |
| <b>M.</b> | Body           | *ASTM A-126 Class B |

**Note:**\* 77F-DI-FDA-125 component parts epoxy coated internally and externally.

## Standards

Tested and Certified by NSF International



## Dimensions – Weights

| SIZE (DN)       |           | DIMENSIONS       |           |                  |           |                 |           |                  |           | WEIGHT        |             |             |
|-----------------|-----------|------------------|-----------|------------------|-----------|-----------------|-----------|------------------|-----------|---------------|-------------|-------------|
|                 |           | A                |           | B                |           | C(NPT)          |           | D*               |           | Screen Area   |             |             |
| <i>in.</i>      | <i>mm</i> | <i>in.</i>       | <i>mm</i> | <i>in.</i>       | <i>mm</i> | <i>in.</i>      | <i>mm</i> | <i>in.</i>       | <i>mm</i> | <i>sq.in.</i> | <i>lbs.</i> | <i>kgs.</i> |
| 2               | 50        | 7 $\frac{7}{8}$  | 200       | 5 $\frac{1}{4}$  | 133       | $\frac{1}{2}$   | 13        | 7                | 178       | 36            | 18          | 8           |
| 2 $\frac{1}{2}$ | 65        | 10               | 254       | 6 $\frac{1}{2}$  | 165       | 1               | 25        | 9 $\frac{3}{4}$  | 248       | 56            | 28          | 13          |
| 3               | 75        | 10 $\frac{1}{8}$ | 257       | 7                | 178       | 1               | 25        | 10               | 254       | 75            | 34          | 15          |
| 4               | 100       | 12 $\frac{1}{2}$ | 308       | 8 $\frac{1}{4}$  | 210       | 1 $\frac{1}{2}$ | 38        | 12               | 305       | 121           | 60          | 27          |
| 5               | 125       | 15 $\frac{5}{8}$ | 397       | 11 $\frac{1}{4}$ | 286       | 2               | 51        | 17               | 432       | 210           | 95          | 43          |
| 6               | 150       | 18 $\frac{1}{2}$ | 470       | 13 $\frac{1}{2}$ | 343       | 2               | 51        | 20               | 508       | 278           | 133         | 60          |
| 8               | 200       | 21 $\frac{1}{8}$ | 551       | 15 $\frac{1}{2}$ | 394       | 2               | 51        | 22 $\frac{3}{4}$ | 578       | 387           | 247         | 112         |
| 10              | 250       | 26               | 660       | 18 $\frac{1}{2}$ | 470       | 2               | 51        | 28               | 711       | 577           | 370         | 168         |
| 12              | 300       | 29 $\frac{1}{8}$ | 759       | 21 $\frac{3}{4}$ | 552       | 2               | 51        | 30               | 762       | 795           | 579         | 262         |

\* D dimension is minimum clearance for screen removal.

## Flow/Pressure Drop Chart

