# For Commercial and Industrial Applications

| Job Name     | Contractor            |
|--------------|-----------------------|
| Job Location | Approval              |
|              |                       |
| Engineer     | Contractor's P.O. No. |
| Approval     | Representative        |

# **LEAD FREE**\*

# Series 77SI

# Wye-Pattern Cast Iron Threaded Strainers

Sizes: 1/4" - 3" (8-80mm)

The Series 77SI Threaded, Wye-Pattern, Cast Iron Strainers are manufactured overseas. These strainers are designed to protect system components from dirt, rust, and other damaging debris in the piping system. Series 77SI strainers are used in steam and liquid applications. They are furnished with a machined seat that allows the screen to be self-aligning to assure a perfect fit. All sizes come with a PTFE gasket, threaded screen retainer cap, tapped blowdown connection, and an easily removable stainless steel screen.

#### **Features**

- Cast iron body
- Wye-pattern
- Tapped retainer cap
- Threaded connections

### Pressure – Temperature

### Maximum Working Pressure:

400psi (27.6 bar) at 150°F (66°C) WOG 250psi (17.2 bar) at 406°F (208°C) WSP

## **Specifications**

A wye-pattern cast iron strainer to be installed as indicated on the plans. The strainer must have a tapped retainer cap and threaded end connections. Strainer shall be rated to 400psi (27.6 bar) at 150°F (66°C) WOG; 250psi (17.2 bar) at 406°F (208°C) WSP. Strainer shall be a Watts Series 77SI.

### **Materials**

Body: Cast iron
Retainer Cap: Cast iron

**Standard Screen:** 1/4" – 2" (8-50mm): 304

stainless steel #20 mesh,

2½"- 3" (65-80mm): ¾4" (1.2mm) 304 stainless steel perforated screen

Gasket: Graphite



#### NOTICE

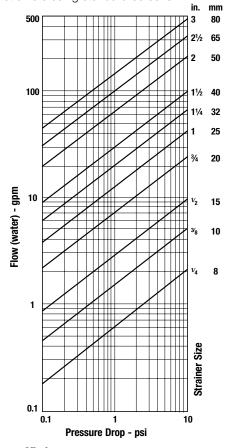
The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation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

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



## Performance Data

Table shows flow rates (gpm) at various pressure drops (psi) for 77SI strainers using standard screens.

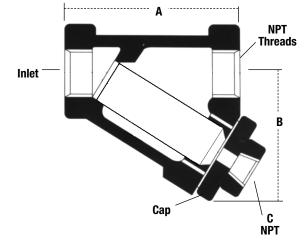


## Flow-coefficient

The flow coefficient (Cv) is the number of gallons per minute of water flowing through a given size restriction at a pressure drop on one psi. To obtain the Cv factor for a given size strainer, read capacity at intersection with the one (1) psi pressure drop.

Conversions:

For gpm to lpm, multiply by 3.8 For psi to bars, multiply by .069



# Dimensions - Weights

| SIZE       | (DN) | DIMENSIONS |     |       |     |         |    |      | WEIGHTS |  |
|------------|------|------------|-----|-------|-----|---------|----|------|---------|--|
|            |      | ,          | A B |       | В   | C (NPT) |    |      |         |  |
| in.        | mm   | in.        | mm  | in.   | mm  | in.     | mm | lbs. | kgs.    |  |
| 1/4        | 8    | 33/16      | 81  | 21/16 | 52  | 1/4     | 8  | 1.5  | 0.7     |  |
| 3/8        | 10   | 33/16      | 81  | 21/16 | 52  | 1/4     | 8  | 1.5  | 0.7     |  |
| 1/2        | 15   | 33/16      | 81  | 21/16 | 52  | 1/4     | 8  | 1.5  | 0.7     |  |
| 3/4        | 20   | 3¾         | 95  | 27/16 | 62  | 3/8     | 10 | 2.5  | 1.1     |  |
| 1          | 25   | 4          | 102 | 27/16 | 62  | 3/4     | 20 | 3.0  | 1.4     |  |
| 11/4       | 32   | 5          | 127 | 3¾    | 86  | 3/4     | 20 | 5.5  | 2.5     |  |
| 11/2       | 40   | 53/4       | 146 | 37/8  | 98  | 3/4     | 20 | 8.0  | 3.6     |  |
| 2          | 50   | 7          | 178 | 43/4  | 121 | 3/4     | 20 | 13.0 | 5.9     |  |
| <b>2</b> ½ | 65   | 91/4       | 235 | 51//8 | 149 | 1       | 25 | 22.0 | 10.0    |  |
| 3          | 80   | 10         | 254 | 6     | 152 | 11/4    | 40 | 30.0 | 13.6    |  |



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