

## For Commercial and Industrial Applications

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

Contractor \_\_\_\_\_

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

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

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

Approval \_\_\_\_\_

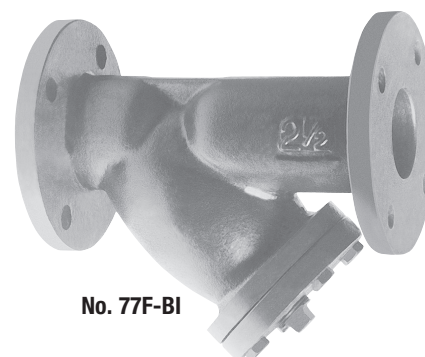
Representative \_\_\_\_\_

# Series 77F-BI

## Bronze, Flanged, Wye-Pattern Strainers

### Sizes: 2" – 8" (50 - 200mm)

Series 77F-BI Bronze, Flanged, Wye-Pattern Strainers are used in liquid and steam applications. Series 77F-BI are furnished with blowdown connections and machined seat that allows the screen to be self-aligning and assures a perfect fit. All sizes come with a bolted screen retainer cover and PTFE gasket. The screen retainer cover is NPT tapped for a blowdown plug that is provided. The strainer is easily cleaned by removing the blowdown plug or opening a blowdown valve piped to the blowdown outlet. Series 77F-BI can be installed in horizontal or vertical pipe with the blowdown connection at the lower end of the screen retainer cover.



No. 77F-BI

### Features

- Class 150 bronze body
- Flanged wye-pattern
- Self-aligning stainless steel screen
- Screen retainer cover tapped and plugged

### Pressure (Non-Shock)-Temperature

#### Maximum Working Pressure:

150psi (10.3 bar) at 406°F (208°C) WSP

225psi (15.5 bar) at 150°F (66°C) WOG

### Materials

**Body:** ASTM B-62 cast bronze

**Plug:** ASTM B-62 cast bronze

**Screen:** 304 stainless steel

**Screen Cover:** ASTM B-62 cast bronze

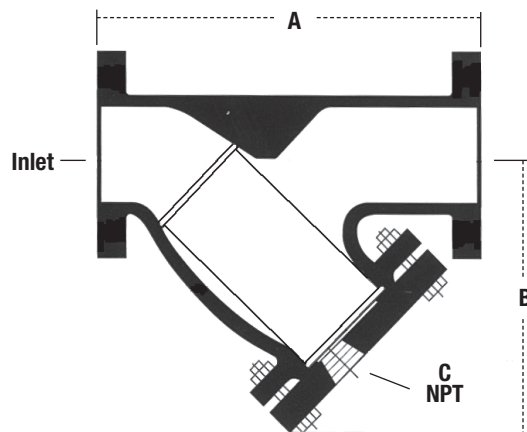
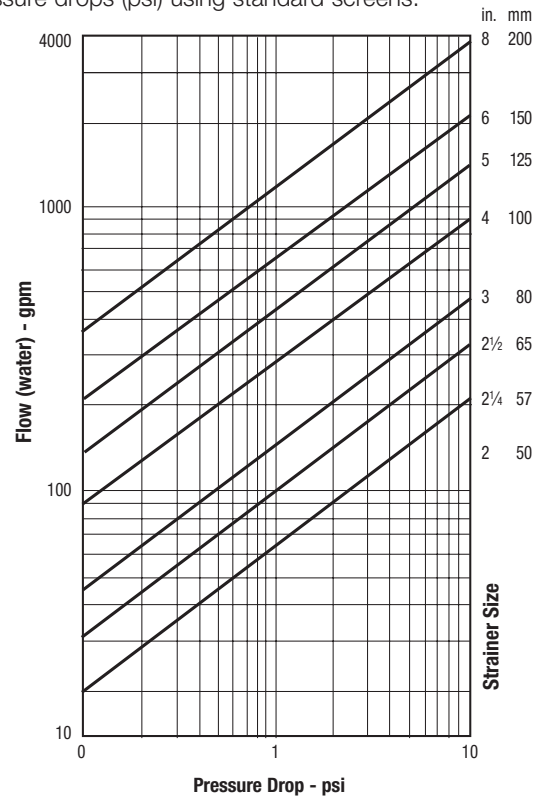
**Gasket:** PTFE

## Standard Screens

SIZE		OPENINGS		STANDARD SCREENS
<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	
2 - 3	50-80	0.045	1.143	¾ 304SS perf.
4 - 8	100-200	0.125	0.317	⅛ 304SS perf.

## Performance Data

Table shows flow rates (gpm-water) through 77F-BI at various pressure drops (psi) using standard screens.



## Flow-coefficient:

The flow coefficient ( $C_v$ ) is the number of gallons per minute of water flowing through a given size restriction at a pressure drop of one psi. To obtain the  $C_v$  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 bar, multiply by .069

## Dimensions — Weights

SIZE		DIMENSIONS						WEIGHT	
<i>in.</i>	<i>mm</i>	A		B		C (NPT)		<i>lbs.</i>	<i>kgs.</i>
		<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>		
2	50	8⅝	219	5¼	133	½	15	20	9.0
2½	65	10¼	260	7	178	¾	20	32	14.5
3	80	11⅝	295	7⅞	195	1	25	36	16.3
4	100	14⅝	365	9⅝	232	1½	40	61	27.6
6	150	18⅝	473	13	330	2	50	160	72.5
8	200	24⅝	619	15⅝	389	2	50	210	95.2

Dimensions shown are subject to change. Contact Watts for exact dimensions

# WATTS®

A Watts Water Technologies Company



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