

## For Fire Protection Applications

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

Contractor \_\_\_\_\_

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

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

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

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# Series 97FB-FSFE

## UL/FM Fire Service Strainers

**Sizes: 3" – 10" (80 – 250mm)**

Series 97FB-FSFE (flanged) UL/FM Fire Service Strainers are used in water spray fire protection systems to protect against clogging that can be caused by particles fouling the discharge opening of the sprinkler heads. Strainers for fire systems are designed to trap foreign material ¼" diameter or larger. This type of strainer is usually installed upstream of most of the devices in the system including the meters, backflow preventers (or detector check valves) and flow alarms, in order to protect these devices from damage caused by dirt and debris.

### Features

- Fabricated steel, epoxy lined and coated body and cover
- With cleanout port
- Large solids trap to minimize screen blockage
- 304 Stainless Steel strainer element

### Pressure – Temperature

Suitable for supply pressure up to 175psi (12.1 bar)

Water temperature up to 140°F (60°C)

### Materials

Body and cover: corrosion resistant fusion-bonded epoxy lined and coated steel.

Screen: 304 Stainless Steel, .25 diameter perforation

Clean-Out Plug: Brass or Bronze

Flanges: AWWA Class "D"



97FB-FSFE

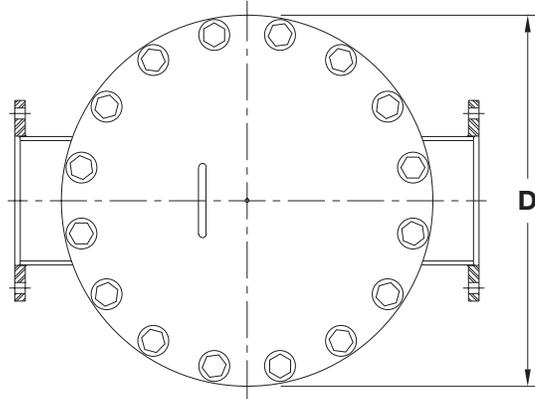
### Approvals



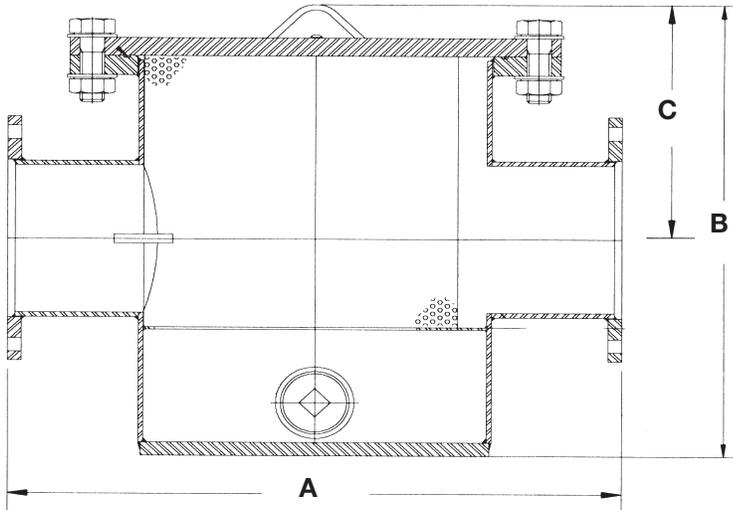
### Specifications

The strainer shall be designed to permit removal of the strainer screen for replacement and repair without removing the body from the line. A flush outlet shall be provided with each strainer. The strainer screen shall withstand 125psi (8.6 bar) when plugged. Friction loss shall not exceed 10psi (69 kPa) when tested with foreign materials (gravel) equal to 2½' (762mm) of filled pipe trapped in the strainer. Open screen area shall be at least 6 times greater than the nominal pipe size open area. Friction loss shall not exceed 3psi (21 kPa) at rated flow when tested with clean strainer screen and clean water. The strainer shall be a Watts Series 97FB-FSFE.

# Dimensions – Weights



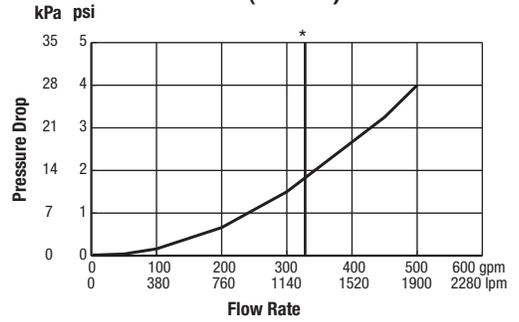
Top View Dimensions			
Size		Lid Diameter (D)	
in.	mm	in.	mm
3	80	13½	343
4	100	13½	343
6	150	19	483
8	200	25	635
10	250	27½	699



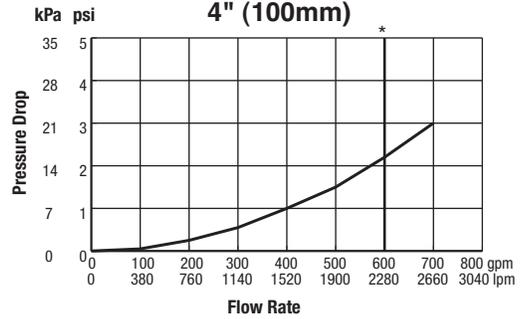
* NOM RATED FLOW		SIZE (DN)		DIMENSIONS						WEIGHT		STD	STD PERF DIA
GPM	LPM	in.	mm	A		B		C		lb.	kg	in.	mm
				in.	mm	in.	mm	in.	mm				
325	1235	3	80	14½	359	20%	524	10	254	70	32	¼	6.4
600	2280	4	100	21	533	20%	524	10%	270	120	54	¼	6.4
1350	5130	6	150	26¾	683	22%	568	11¼	286	232	105	¼	6.4
2100	7980	8	200	31¼	794	25¼	637	13	330	560	254	¼	6.4
3600	13680	10	250	30	762	29¼	744	14½	368	570	256	¼	6.4

## Flow vs. Pressure Drop

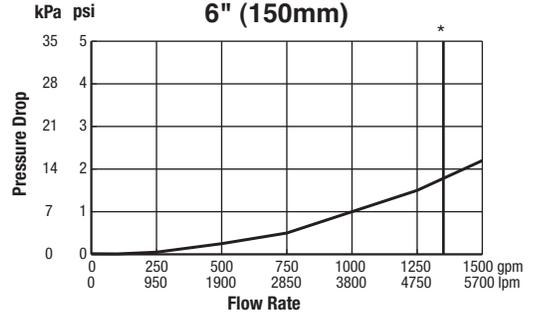
### 3" (80mm)



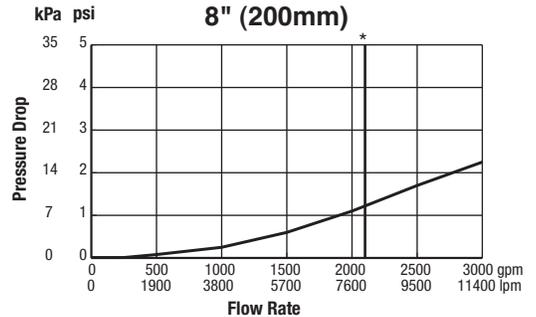
### 4" (100mm)



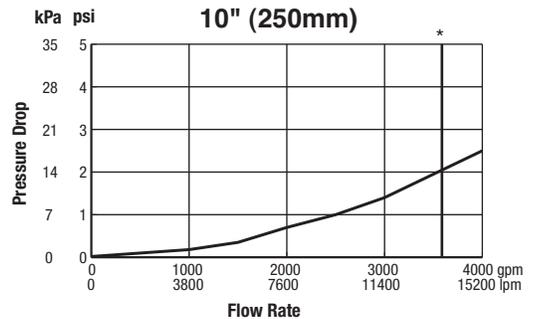
### 6" (150mm)



### 8" (200mm)



### 10" (250mm)



A Watts Water Technologies Company



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