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 conjunction with a water spray system to protect the system against clogging that can be caused by particles fouling the small discharge opening of the sprinkler heads. Strainers for fire systems are designed to trap foreign material 1/4" 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 large particles.



97FB-FSFE

Features

- Fabricated steel, epoxy lined and coated
- Available flange x flange
- 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"

Grooves: AWWA C606

Approvals

c UL us Listed 321

FM Approved Class 5551

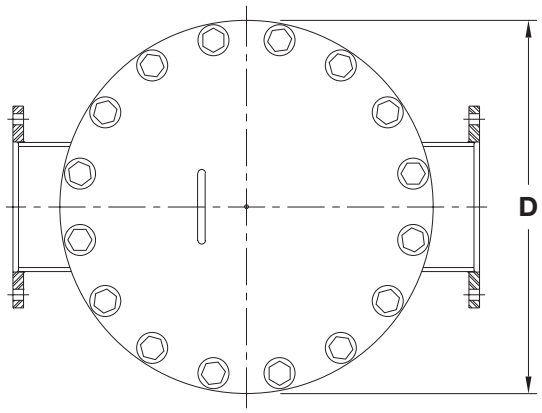
Specifications

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 2 1/2' (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.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

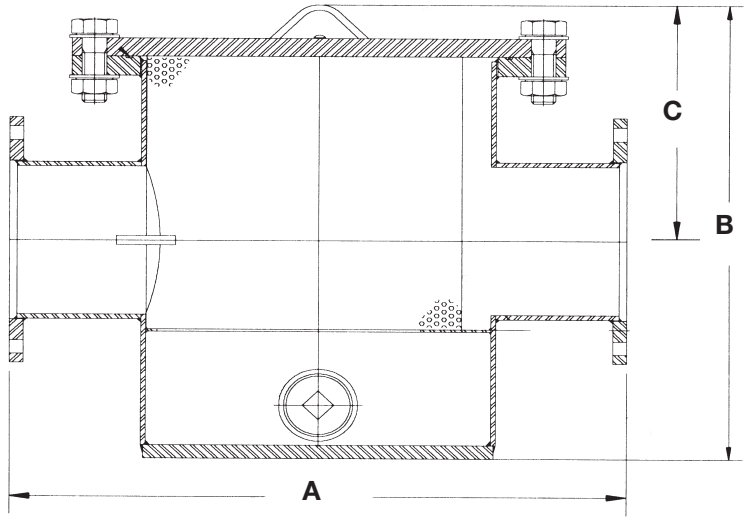
WATTS®

Dimensions – Weights



Top View Dimensions

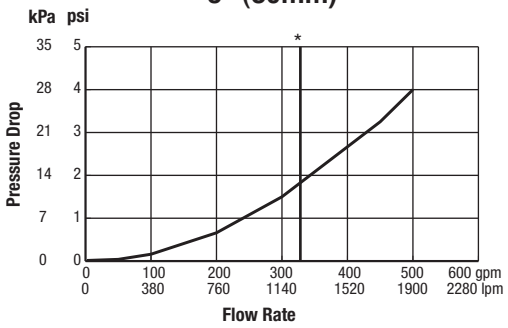
Size		Lid Diameter (D)	
in.	*mm*	*in.*	*mm*
3	80	13 1/2	343
4	100	13 1/2	343
6	150	19	483
8	200	25	635
10	250	27 1/2	699



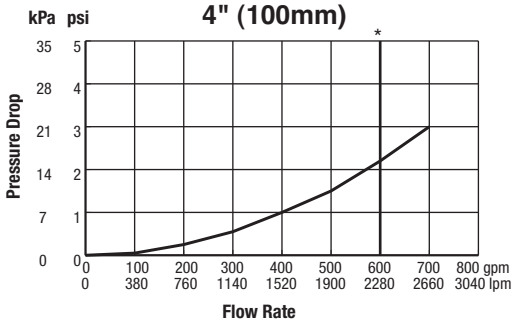
NOM RATED FLOW		SIZE (DN)		DIMENSIONS						WEIGHT		STD PERF DIA	
				A		B		C					
GPM	*LPM*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lb.*	*kg*	*in.*	*mm*
325	1235	3	80	14 1/8	359	20 5/8	524	10	254	70	32	1/4	6.4
600	2280	4	100	21	533	20 5/8	524	10 5/8	270	120	54	1/4	6.4
1350	5130	6	150	26 7/8	683	22 3/8	568	11 1/4	286	232	105	1/4	6.4
2100	7980	8	200	31 1/4	794	25 1/16	637	13	330	560	254	1/4	6.4
3600	13680	10	250	30	762	29 5/16	744	14 1/2	368	570	256	1/4	6.4

Flow vs. Pressure Drop

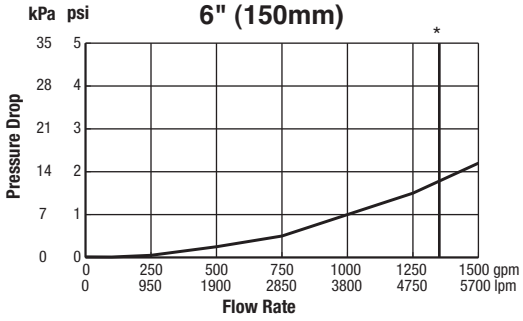
3" (80mm)



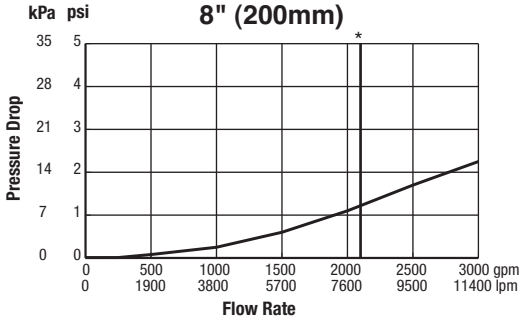
4" (100mm)



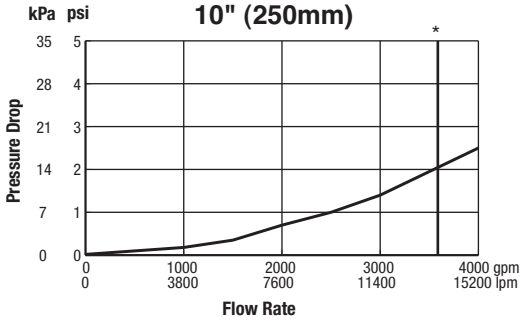
6" (150mm)



8" (200mm)



10" (250mm)



WATTS®

A Watts Water Technologies Company

ISO 9001-2008 CERTIFIED

USA: 815 Chestnut St., No. Andover, MA 01845-6098; www.watts.com
Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.ca

© 2010 Watts