

For Commercial and Institutional Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

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/blow-off connection furnished with a closure plug. Model 77F-DI-FDA-125 also features a double coated, heat fused epoxy coating on the interior and exterior for FDA approved sanitary applications.



77F-DI-FDA-125

Features

- Flanges conform to American Cast Iron Flange Standard, Class 125 (ANSI B16.1) and MIL-S 16293 Type II
- Cast iron body
- 304 Stainless steel perforated screens
- Cast iron flanged retainer cap with gasket tapped for closure plug
- Drain/Blow-off connection furnished with closure plug
- 77F-DI-FDA-125 model 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 Cast Iron Flange Standard, Class 125, 304 stainless steel perforated screens and a drain/blow-off connection furnished with a closure plug. Pressure rating no less than 200psi (13.8 bars) WOG non-shock and 125psi (8.6 bars) WSP. Strainer shall be a Watts Regulator Company Series 77F-DI-125.

Pressure – Temperature

Maximum Operating Pressure:

200psi (13.8 bars) WOG, non-shock, @ 210° F (99° C)

125psi (8.6 bars) 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")

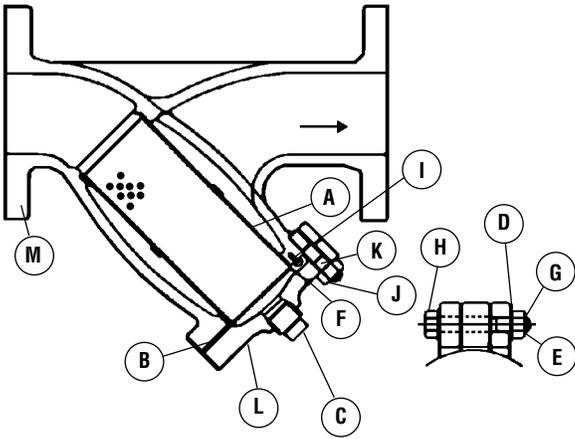
Specifications (77F-DI-FDA-125)

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/blow-off connection furnished with a closure plug. Pressure rating no less than 200psi (13.8 bars) CWP. Strainer shall be Watts Regulator Company Series 77F-DI-FDA-125.



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.

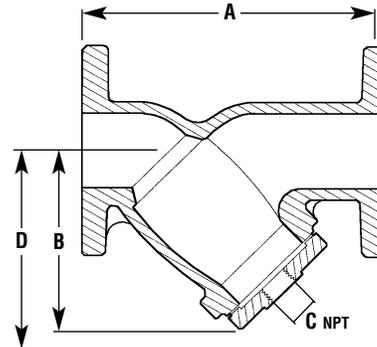
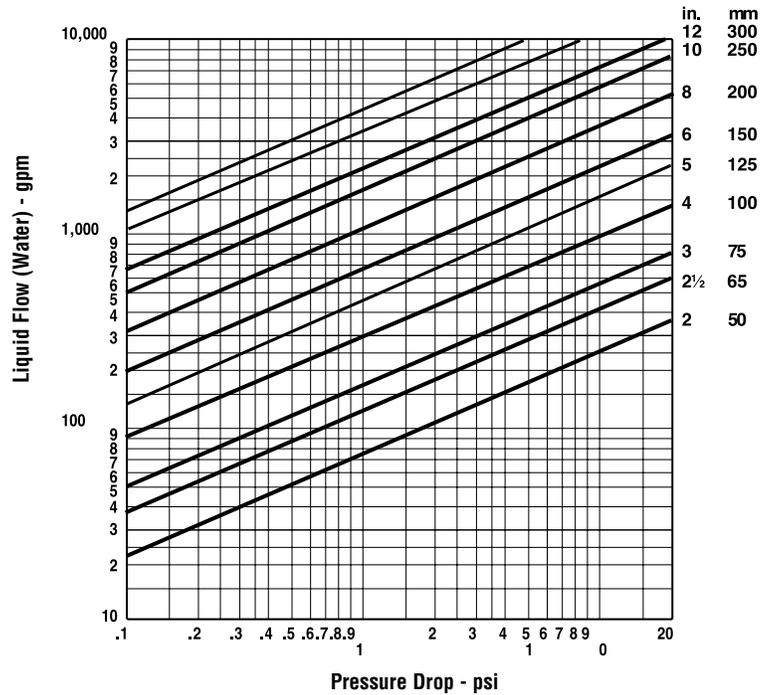
Materials



A.	Screen	AISI 304SS
B.	Cover Gasket	Non-Asbestos
C.	Plug	*ASTM A47
D.	Washer	ASTM A6
E.	Cotter Pin	ASTM A112
F.	Plate	*ASTM A6
G.	Bolt Nut	ASTM A6
H.	Bolt	ASTM A6
I.	Set Screw	ASTM B16
J.	Cover Bolt Nut	ASTM A6
K.	Cover Bolt	ASTM A6
L.	Cover	*ASTM A-126 Cl.B
M.	Body	*ASTM A-126 Cl.B

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

Flow/Pressure Drop Chart



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 $\frac{3}{8}$	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 $\frac{5}{8}$	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 $\frac{7}{8}$	759	21 $\frac{3}{4}$	552	2	51	30	762	795	579	262

* D dimension is minimum clearance for screen removal.



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