For Commercial and Industrial Applications

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

LEAD FREE*

Series 77F-SS, 77G-SS

Stainless Steel Wye-Pattern Flanged and Grooved Strainers

Sizes: 2½" – 12" (65 – 300mm)

Series 77F-SS, 77G-SS Stainless Steel Strainers are lightweight, fabricated wye-pattern strainers designed to remove dirt and other debris from fluid systems. A simple cover and coupling design permits easy cleaning or replacement of the screen.

No. 77F-SS (Flanged)

Features

- 304 stainless steel body exhibits superior corrosion resistance compared to cast iron; eliminates casting porosity problems; complies with NSF 61 and FDA requirements
- 50% lighter than cast iron strainers, reducing handling and installation equipment costs
- Lead Free construction complies with California Prop. 65 and proposed Federal Government lead-free standards
- Single, two-bolt, grooved style cover provides quick and easy access, saving disassembly/assembly time
- Screen retainer cover is tapped for strainer clean out by opening a blow-off valve or removing the standardly furnished closure plug

No. 77G-SS (Grooved)

Materials

Body:	304 stainless steel, ASTM A-312
Flanges:	Zinc-plated, ASTM A – 36 carbon steel
Cover:	304SS sizes 6", 8", 10" (150, 200, 250 mm); ductile iron sizes 2½" – 5" and 12" (65 – 125, 300mm); epoxy coated ductile iron sizes 2½" – 5" and 12" (65 – 125, 300mm) on FDA models
Cover Gasket:	EPDM, ambient to 150°F (66°C)
Grooved Coupling:	Ductile iron, ASTM A-536
Bolts:	Heat treated (SAE J-429) steel, ASTM B-633
Nuts:	Heat treated (SAE J-429) steel, ASTM B-633
Plug:	Brass, ASTM B-584
Screen:	304 stainless steel, ASTM A-276

Specifications

Strainer shall be installed where indicated on the plans to remove dirt and other debris from fluid system. Strainer shall be manufactured from 304 stainless steel and be lead free. Strainer shall be Watts Regulator Company Series 77F-SS (flanged ends) or 77G-SS (grooved ends).

***The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight.**

WATTS®

Pressure — Temperature

WOG: 200psi at (13.8 bar) 150°F (66°C)

Standards

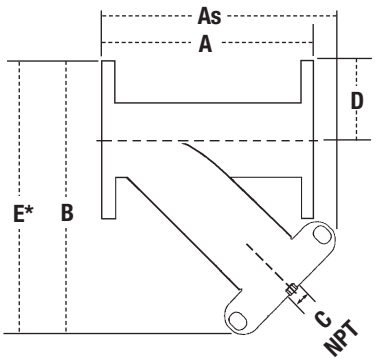
Dimensions and drilled flange holes conform to ANSI B16.1, Class 125 cast iron and Class 150 cast steel flanges.

Standard Screens

SIZE		STANDARD SCREEN OPENINGS
in.	*mm*	
2½" – 5"	65 – 125	1/16" (2mm) perforation
6" – 8"	150 – 200	1/8" (3mm) perforation
10" – 12"	250 – 300	3/16" (5mm) perforation

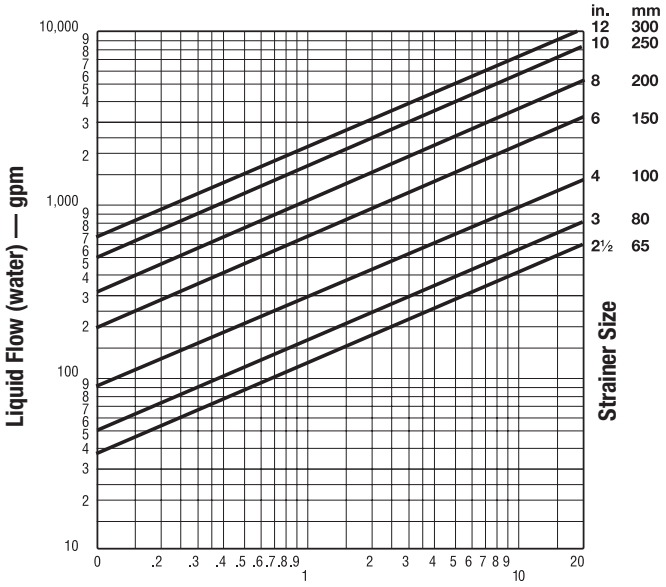
Screen material is stainless steel.

Dimensions – Weights



Flow Capacity Flanged and Grooved

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



Note: To convert gpm to lpm, multiply by 3.8
To convert psi to bar, multiply by .069

Ordering Code	Size (NPS)		Dimensions (approx.)												Weights	
			A		As		B		C (NPT)		D		E* Screen Removal			
	in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lbs.*	*kgs.*
Flanged																
0821110	2½	65	10	254	11 3/16	284	12 15/16	329	½	15	3½	89	17 9/16	446	21	9.5
0821111	3	80	10⅛	257	11 1/16	281	13	330	½	15	3¾	95	18½	470	26	11.8
0821112	4	100	12⅛	308	14 3/16	360	15¾	400	½	15	4½	114	23	584	33	15.0
0821114	6	150	18½	470	20 3/16	513	21 5/16	541	¾	20	5½	140	31¼	794	70	31.8
0821115	8	200	21⅝	549	24 9/16	624	26⅜	670	¾	20	63¾	171	39 1/16	992	91	41.3
0821116	10	250	26	660	32 3/16	818	32 11/16	830	¾	20	8	203	49	1245	134	60.8
0821117	12	300	29⅞	759	35½	902	37⅜	949	¾	20	9½	241	56 9/16	1437	225	102.0
Grooved																
0821160	2½	65	9½	241	11 3/16	284	10¼	260	½	15	1½	38	15 9/16	395	21	9.5
0821161	3	80	9⅝	244	11 1/16	295	11¼	286	½	15	2 1/32	52	16¾	425	26	11.8
0821162	4	100	11⅝	295	14 3/16	360	13 9/16	344	½	15	2¼	57	20¾	527	33	15.0
0821164	6	150	18	457	20 3/16	513	19 3/16	487	¾	20	3⅜	86	29⅛	740	70	31.8
0821165	8	200	21⅛	537	24 9/16	624	24	610	¾	20	4⅜	111	36 11/16	932	91	41.3
0821166	10	250	25½	648	32 3/16	818	30⅛	765	¾	20	5 7/16	138	46 7/16	1180	134	60.8
0821167	12	300	29⅜	746	35½	902	30 5/16	872	¾	20	6 7/16	164	53½	1359	225	102.0

*E dimension is minimum clearance for screen removal.