

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"

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.

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

Materials

Body:	304 stainless steel, ASTM A-312
Flanges:	Zinc-plated, ASTM A – 36 carbon steel
Cover:	304SS sizes 6", 8", 10"; ductile iron sizes 2½" – 5" and 12"; epoxy coated ductile iron sizes 2½" – 5" and 12" 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 Series 77F-SS (flanged ends) or 77G-SS (grooved ends).



77F-SS
(Flanged)



77G-SS
(Grooved)

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

NOTICE

Inquire with governing authorities for local installation requirements

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.



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.

Pressure – Temperature

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

Standards

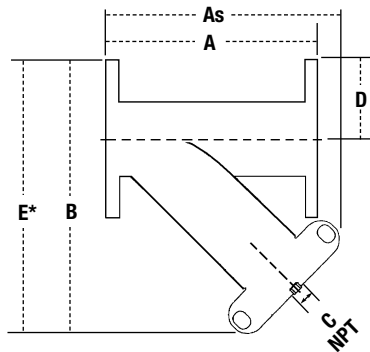
Dimensions and drilled flange holes conform to ANSI B16.1, Class 125 cast iron and Class 150 cast steel flanges.

Standard Screens

SIZE	STANDARD SCREEN OPENINGS
<i>in.</i>	
2½" – 5"	⅛" (2mm) perforation
6" – 8"	⅜" (3mm) perforation
10" – 12"	¾" (5mm) perforation

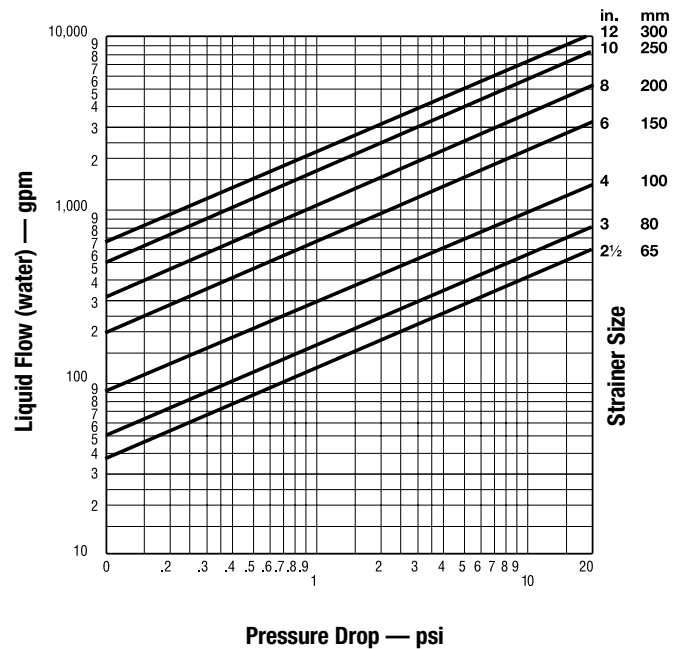
Screen material is stainless steel

Dimensions – Weights



Flow Capacity Flanged and Grooved

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 1psi. To obtain the C_v 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	DIMENSIONS (APPROX.)										WEIGHT									
		<i>in.</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>As</i>	<i>mm</i>	<i>in.</i>	<i>B</i>	<i>mm</i>	<i>in.</i>	<i>C (NPT)</i>	<i>mm</i>	<i>in.</i>	<i>D</i>	<i>mm</i>	<i>E* Screen Removal</i>	<i>in.</i>	<i>mm</i>	<i>lbs.</i>	<i>kgs</i>
Flanged																					
0821110	2½"	10	254	11⅜"	284	12⅝"	329	½"	15	3½"	89	17⅞"	446	21	9.5						
0821111	3"	10⅞"	257	11⅞"	281	13"	330	½"	15	3¾"	95	18½"	470	26	11.8						
0821112	4"	12½"	308	14⅜"	360	15¾"	400	½"	15	4½"	114	23"	584	33	15.0						
0821114	6"	18½"	470	20⅜"	513	21⅝"	541	¾"	20	5½"	140	31¼"	794	70	31.8						
0821115	8"	21⅝"	549	24⅜"	624	26⅝"	670	¾"	20	6¾"	171	39⅞"	992	91	41.3						
0821116	10"	26"	660	32⅜"	818	32⅞"	830	¾"	20	8"	203	49"	1245	134	60.8						
0821117	12"	29⅞"	759	35½"	902	37⅞"	949	¾"	20	9½"	241	56⅞"	1437	225	102.0						
Grooved																					
0821160	2½"	9½"	241	11⅜"	284	10¼"	260	½"	15	1½"	38	15⅞"	395	21	9.5						
0821161	3"	9⅞"	244	11⅞"	295	11¼"	286	½"	15	2⅝"	52	16¾"	425	26	11.8						
0821162	4"	11⅝"	295	14⅜"	360	13⅞"	344	½"	15	2¼"	57	20¾"	527	33	15.0						
0821164	6"	18"	457	20⅜"	513	19⅜"	487	¾"	20	3⅝"	86	29⅞"	740	70	31.8						
0821165	8"	21⅞"	537	24⅜"	624	24"	610	¾"	20	4⅞"	111	36⅞"	932	91	41.3						
0821166	10"	25½"	648	32⅜"	818	30⅞"	765	¾"	20	5⅞"	138	46⅞"	1180	134	60.8						
0821167	12"	29⅞"	746	35½"	902	30⅞"	872	¾"	20	6⅞"	164	53½"	1359	225	102.0						

*E dimension is minimum clearance for screen removal.

