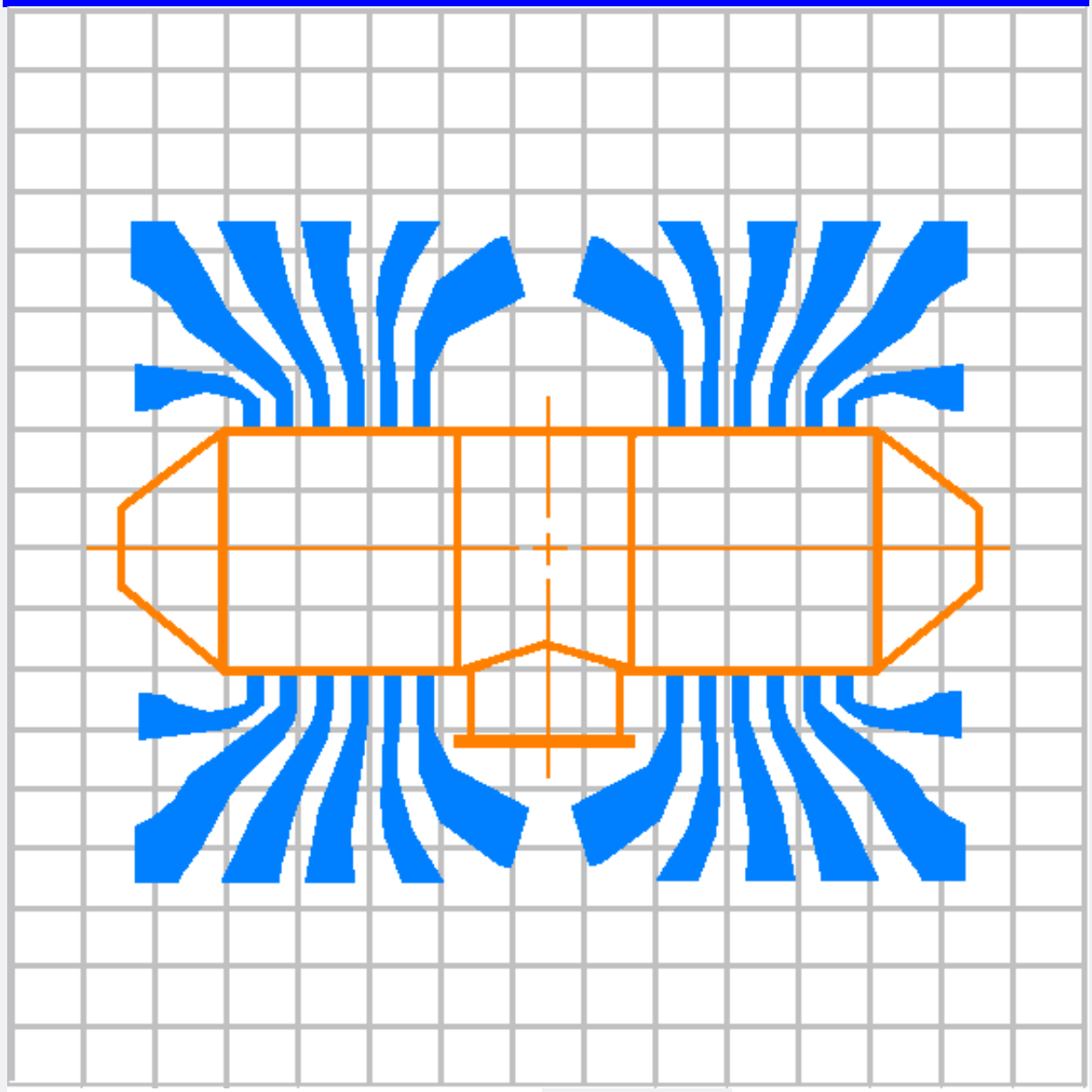
Gravity Flow Systems Southwest, Inc.

GFS HAS THE ANSWER



GFS Wedgewater™ Intake Screens

Simple, Reliable Water Withdrawal and System Protection

The Wedgewater™ Intake Screens

Simple, Reliable Screening for High-Flow Water Withdrawal Applications

Simple

Wedgewater™ Intake Screens *combine smooth Wedgewater™ screen surface, maximum through-screen volume design, high open area, and all-welded construction. Screens can be piped to a wet well or connect directly to the pumps. Either way, the water flows slowly, smoothly and uniformly through the screen surface, leaving debris and aquatic life in the water source. From a river, lake, pond, reservoir or pool, water enters the system and other materials are excluded.*

Reliable

Wedgewater™ Intake Screens have no moving parts to fail, no chain links to break, no wire mesh to tear, and no baskets to bend. There are no motors to burn up, no gears to wear and no seals to fail—just a strong, corrosion-resistant, unitized screen structure to provide protection all day, every day.

System Protection

Wedgewater™ Intake Screens uses low through-screen velocities and triangular wire, welded "base-out" to create a smooth screen surface with inwardly-enlarging openings. This creates a positive barrier to debris and wildlife entry into the system, allowing the unwanted items to remain in the water source so it is not a "trash-collection device". This special construction makes it possible to provide high open area and high strength at all screen opening size, from 1mm to 3/8". You choose the size material you want to keep out of your system, then select a screen opening that provides a positive barrier to that debris.

Screen Cleaning

Wedgewater™ Intake Screens are designed to minimize the accumulation of debris on the screen surface, since low through-screen velocities tend to prevent fouling. However, our optional ***Air Burst Header*** is designed to provide removal of any debris from the screen surface if situation should warrant.

Versatile

Wedgewater™ Intake Screens can be installed in a variety of different ways, so the chances that we can make the screen fit your needs are great. In various types of water sources ranging from lakes, rivers, streams, canals, and the like., mounting can be stationary in several orientations, or an easily removable slide rail installation, or even a floating arrangement to maintain a certain submergence. We can work with you to meet your applications' individual needs.

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The Wedgewater™ Intake Screens

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Intake Screen General Specification

Two 6' dia. 15 foot long 316 Stainless Steel Wedgewater™ Intake T-Screens, loaded and ready to go.

1. General: Provide intake screen(s) as specified herein and as shown on the drawings. The intake screen shall be of cylindrical, all-welded continuous slot construction to provide maximum open area commensurate with the strength requirements identified herein. The slots shall widen inwardly from the screen surface so as to minimize the chance of debris entrapment in the screen openings. The screen shall include low headloss flow field control. The screen assembly shall be as manufactured by Gravity Flow Systems Southwest, Inc. of Seguin, TX.
2. Screen Index: The screen index shall equal or exceed _____.
3. Capacity: The total screen capacity shall be _____ US GPM at a maximum local through slot velocity as a result of water withdrawal no to exceed 0.5 feet per second. A this flow rate the pressure drop through the clean screen shall not exceed 0.1 psi. Pressure drop through a single screen assembly shall be in the range of 1/4 foot of water. Pressure drop through a tee assembly shall be in the range of 3/4 foot of water.
4. Strength: The screen shall withstand a differential hydrostatic collapse pressure in excess of 600 pounds per square foot.
5. Construction: The surface wire shall be GFS Wedgewater™ shape number 69 (or 130 when slot is 1/4" or greater) or an equivalent cold rolled shape that will provide the same strength and open area. The surface wire, support bars and stiffener structure shall be an all welded matrix designed to provide the specified strength while providing minimal interference with the through screen flow pattern. End plates and tee body shall be a minimum of 3/16" thick.
6. Slot: The screen slot opening shall be _____ inches. The open area for this slot opening shall be _____ %.
7. Materials: The screen assembly shall be manufactured of one corrosion resistant metal, type _____ stainless steel. The outlet shall be ___ - inch flanged connection.

28-inch diameter removable T-Screen Ready for installation

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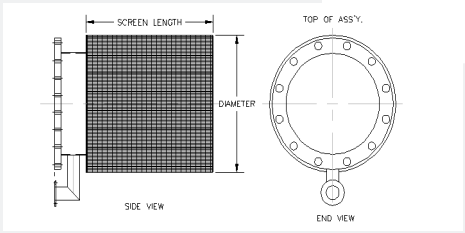
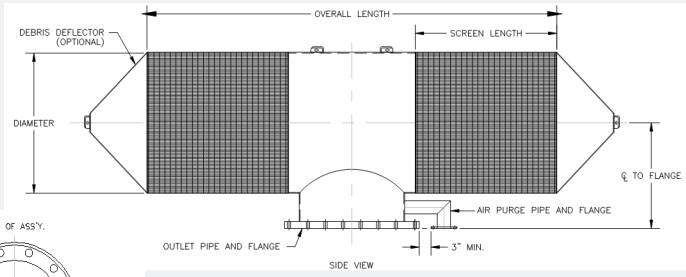


Type "S" Screen

Model	Screen Area in.²	Dia. in.	Screen Length in.	Appx. O.A. Lgth in.	Appx. Weight lbs.	Outlet Size in.	Appx. Flow Range USGPM*
S-12	481	12.8	12	22	30	6	187 - 400
S-14	616	14	14	24	35	6	240 - 511
S-16	804	16	16	26	40	8	313 - 667
S-18	1,018	18	18	28	55	8	396 - 845
S-21	1,386	21	21	32	85	10	540 - 1,151
S-24	1,810	24	24	34	110	12	705 - 1,503
S-27	2,290	27	27	37	150	12	892 - 1,901
S-28	2,463	28	28	38	190	14	959 - 2,045
S-30	2,827	30	30	40	245	14	1,101 - 2,347
S-33	3,421	33	33	44	340	16	1,332 - 2,840
S-36	4,072	36	36	46	37	18	1,586 - 3,380
S-40	5,027	40	40	50	400	20	1,958 - 4,173
S-42	5,542	42	42	55	425	20	2,158 - 4,601
S-44	6,082	44	44	57	450	20	2,369 - 5,049
S-48	7,236	48	48	61	500	24	2,819 - 6,009
S-54	9,161	54	54	73	625	24	3,568 - 7,605
S-60	11,310	60	60	79	775	30	4,405 - 9,389
S-66	13,685	66	66	85	1050	30	5,330 - 11,361
S-72	16,286	72	72	97	1200	36	6,343 - 13,521
S-78	19,114	78	78	104	1475	36	7,444 - 15,868
S-84	22,167	84	84	110	1700	42	8,633 - 18,403



Type "T" Screen

Model	Screen Area in.²	Dia. in.	Screen Length in.	Appx. O.A. Lgth in.	Appx. Weight lbs.	Outlet Size in.	Appx. Flow Range USGPM*
T-12	962	12.8	12	40	100	10	375 - 799
T-14	1,232	14	14	44	120	10	480 - 1,023
T-16	1,608	16	16	52	135	12	626 - 1,335
T-18	2,036	18	18	56	170	14	793 - 1,689
T-21	2,772	21	21	66	290	16	1,080 - 2,301
T-24	3,620	24	24	74	375	18	1,410 - 3,006
T-27	4,580	27	27	82	460	20	1,784 - 3,802
T-28	4,926	28	28	84	500	20	1,919 - 4,090
T-30	5,654	30	30	92	640	24	2,202 - 4,694
T-33	6,842	33	33	97	780	24	1,701 - 3,625
T-36	8,144	36	36	104	1050	30	3,172 - 6,761
T-40	10,054	40	40	118	1150	30	3,916 - 8,347
T-42	11,084	42	42	122	1200	30	4,317 - 9,202
T-44	12,164	44	44	160	1350	30	4,737 - 10,098
T-48	14,476	48	48	140	1600	36	5,638 - 12,018
T-54	18,322	54	54	152	2000	36	7,136 - 15,211
T-60	22,620	60	60	170	2500	42	8,809 - 18,778
T-66	27,370	66	66	188	3700	48	10,659 - 22,722
T-72	32,572	72	72	200	4300	48	12,686 - 27,041
T-78	38,228	78	78	218	5100	54	14,888 - 31,737
T-84	44,334	84	84	236	6000	60	17,266 - 36,805

**Flow rates shown vary based on size of screen opening*

The technical data provided herein should be regarded as general information, and should not be used for design purposes. GFS Southwest, Inc. assumes no responsibility for any operational or design data not submitted as such in writing directly from it. Please contact Gravity Flow Systems Southwest, Inc. or one of it's authorized representatives for further assistance.

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