



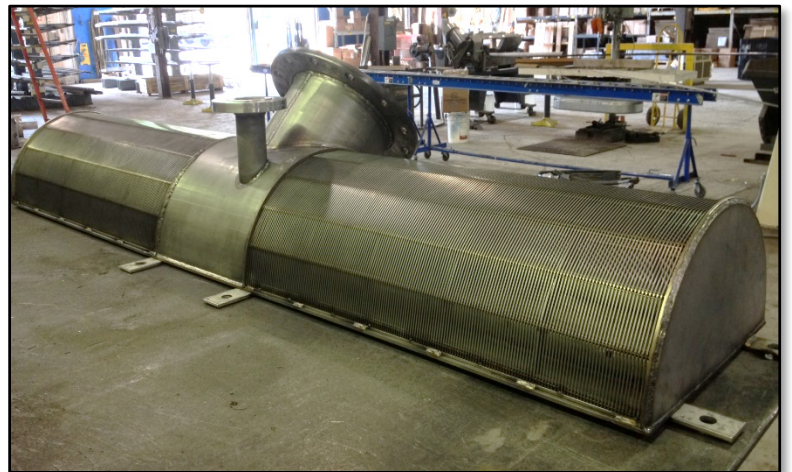
## Cylindrical Screens

Intake screens provide the first line of defense for your municipal, industrial, or hydro power plant. These unsung heroes keep fish safe and protect your pumps and turbines from harmful debris. Our intake solutions deliver water to your system with a design that is both efficient and environmentally safe.

The front line of Elgin's screen is welded stainless steel wedge wire. This adds great strength to the structure, while providing efficient filtering and smooth flow dynamics. The end result is a structurally sound screen that remains consistent for the life of the product.



Cylindrical screens use a combination of physical and hydrodynamic exclusion, so that the screens do not clog or kill fish. Different screen options include, AirBurst systems to remove any debris, debris deflection cones, and a variety of other technologies to protect your water supply.



Elgin's intake screens are passive, meaning they have no moving parts. This allows for efficient and effective fabrication with little to no maintenance. Our passive intake structures give the customer confidence that the screens will not wear out over time.



[watersolutions@elginps.com](mailto:watersolutions@elginps.com)

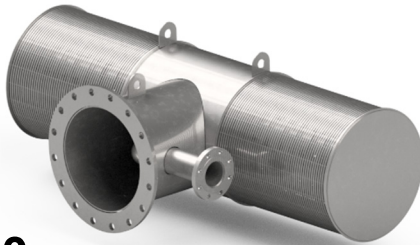


+1.614.524.4588



[www.elginwatersolutions.com](http://www.elginwatersolutions.com)

## Cylindrical Screen General Arrangements



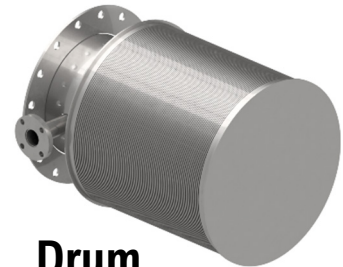
### Tee

- Common inlet for two drum screens
- Most common arrangement



### Hemi

- Low water level
- Surface mounting



### Drum

- Lowest head loss
- Flange mount

Type	Capacity MGD (liters/sec)	Screen Ø in (mm)	Overall Length in (mm)	Outlet Ø in (mm)
Tee	1.0 (44)	12 (305)	44 (1118)	12 (305)
	2.5 (110)	20 (508)	66 (1676)	20 (508)
	5.0 (219)	30 (762)	76 (1930)	24 (610)
	10 (438)	36 (914)	112 (2845)	30 (762)
	20 (876)	54 (1372)	156 (3962)	48 (1219)
	30 (1314)	60 (1524)	198 (5029)	54 (1372)
	60 (2629)	90 (2286)	276 (7010)	84 (2134)
Hemi	1.0 (44)	18 (457)	56 (1422)	16 (406)
	2.5 (110)	30 (762)	76 (1930)	24 (610)
	5.0 (219)	36 (914)	112 (2845)	30 (762)
	10 (438)	48 (1219)	162 (4115)	42 (1067)
Drum	1.0 (44)	18 (457)	22 (559)	18 (457)
	2.5 (110)	30 (762)	30 (762)	30 (762)
	5.0 (219)	36 (914)	47 (1194)	36 (914)
	10 (438)	48 (1219)	68 (1727)	48 (1219)

- Additional wire sizes/profiles and slot openings available
- Sizing based on 90 wire (0.09 in / 2.3 mm wide) with 0.125 in (3.2 mm) slot openings with max slot velocity of 0.5 ft/s (0.15 m/s)
- Outlet sizes and overall screen geometry can be tailored to the application – guide rail options available for screens with retrieval system
- AirBurst inlet piping shown for reference – size/orientation will be tailored to site layout

