



## FO Series FRP Basket Strainers

### Designed & Engineered For Commercial Systems

Strainer Housings are schedule fiberglass reinforced plastic construction, pressure tested to 50 PSI. Features include: quick opening latches, see thru lid, and a 316 stainless steel v-wire basket. Strainers are supplied with flanged connections drilled to 150 lb. ANSI standard.

### Basket & Housing Will Not Corrode

FRP and stainless steel smaller components assure that all wetted parts will not rust. Overall dimensions conform to existing metal strainer configurations for simple field replacement of existing corroded metal units.

### Also Available As A Reducing Strainer

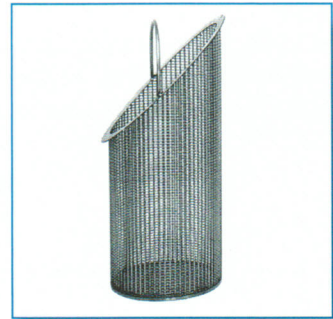
The outlet size can be sized smaller than the inlet to allow line size reduction to pump suction size. Also, larger strainer bodies can be fitted with smaller inlet and outlet sizes if a larger basket is desired for extra capacity and longer times between cleaning.

### Transparent Lid

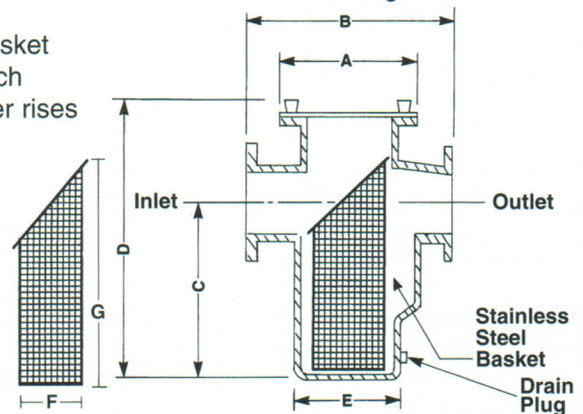
Clear acrylic lid allows inspection of basket without opening strainer. On 14" and larger strainers the lid is FRP with an 8" diameter viewport.

### Lower Losses - Increased Time Between Cleaning

The FO series strainers are built with a large outlet area in the basket chamber. This results in very low pressure losses initially and much greater debris loading before the pressure drop across the strainer rises to the point where cleaning is required.



8" x 5" Reducing Strainer



Materials of Construction			
Body .....	FRP	Hand Knobs .....	FRP w/SS insert
Lid .....	Acrylic	"O" Ring .....	Ethylene Propylene
Eye Bolts .....	Stainless Steel	Basket .....	V-Wire 316 Stainless Steel

Inlet Diameter	Outlet Diameter	A	B	C	D	E	F	G	Opening Size (Square)	Basket Free Area (Sq. In.)	Ratio-Free Area To Pipe Area	Weight (lbs.)
4"	4"	9 1/4"	16 5/8"	12"	21 1/2"	7 1/4"	4 7/8"	14 1/2"	3/16"	116	9.2	40
6"	6"	11 1/4"	17 5/8"	15 1/2"	25 1/4"	9 1/4"	6 7/8"	18"	3/16"	211	7.5	52
8"	8"	13 1/4"	23 1/2"	17 1/2"	30 1/4"	11 1/4"	8 7/8"	22"	3/16"	327	6.5	85
10"	10"	15 1/4"	28 3/4"	21 1/2"	34 3/4"	13 1/2"	10 7/8"	27"	3/16"	498	6.3	112
12"	12"	17 1/4"	31 1/2"	23"	37 1/2"	15 3/4"	12 3/4"	29 1/2"	3/16"	627	5.5	127
14"	14"	23 1/4"	42"	31"	48"	21 3/4"	18 1/2"	39"	3/16"	1210	7.9	340
16"	16"	23 1/4"	42"	31"	48"	21 3/4"	18 1/2"	39"	3/16"	1210	6	360
18"	18"	23 1/4"	42"	31"	48"	21 3/4"	18 1/2"	39"	3/16"	1210	4.7	380



# FO Series SPECIFICATION

Strainer shall be constructed completely of non-corrodible materials. Body shall be all fiberglass construction incorporating a .100" corrosion liner on all interior surfaces and flange faces. Liner shall be constructed of one layer of resin-rich "C" veil, followed by two layers of 1 1/2 oz. glass mat, impregnated with isophthalic polyester resin.

Inlet and outlet to be flanged connections, flange to be 3/4" thick drilled to 150# ANSI standard drilling pattern. Lid to be manufactured of clear acrylic to allow unobstructed visual inspection of basket. ❶ Stainless steel toggle bolts are to be built into the top of the strainer body. Fiberglass knobs on these bolts clamp the acrylic cover tightly. Three bolts are immovable while one ❷ bolt drops away after loosening knob. The clear lid shall be grooved to allow it to swing open after dropping one toggle. Lid shall be sealed with an ethylene propylene "O" ring.

## Notes -

- ❶ 14" and larger strainers are built with a fiberglass lid which includes an 8" diameter clear acrylic view port.
- ❷ Two bolts drop away on the 12" and larger models.
- ❸ Eccentric reducing sections also available - specify if so desired.

Strainer is to be built with an outlet structure to enlarge the opening in the basket chamber. Outlet area of the basket chamber shall be a minimum of four times the area of the inlet pipe. Designs similar to a pipe cross, with the outlet of the basket chamber being a nozzle similar to the inlet, are not acceptable.

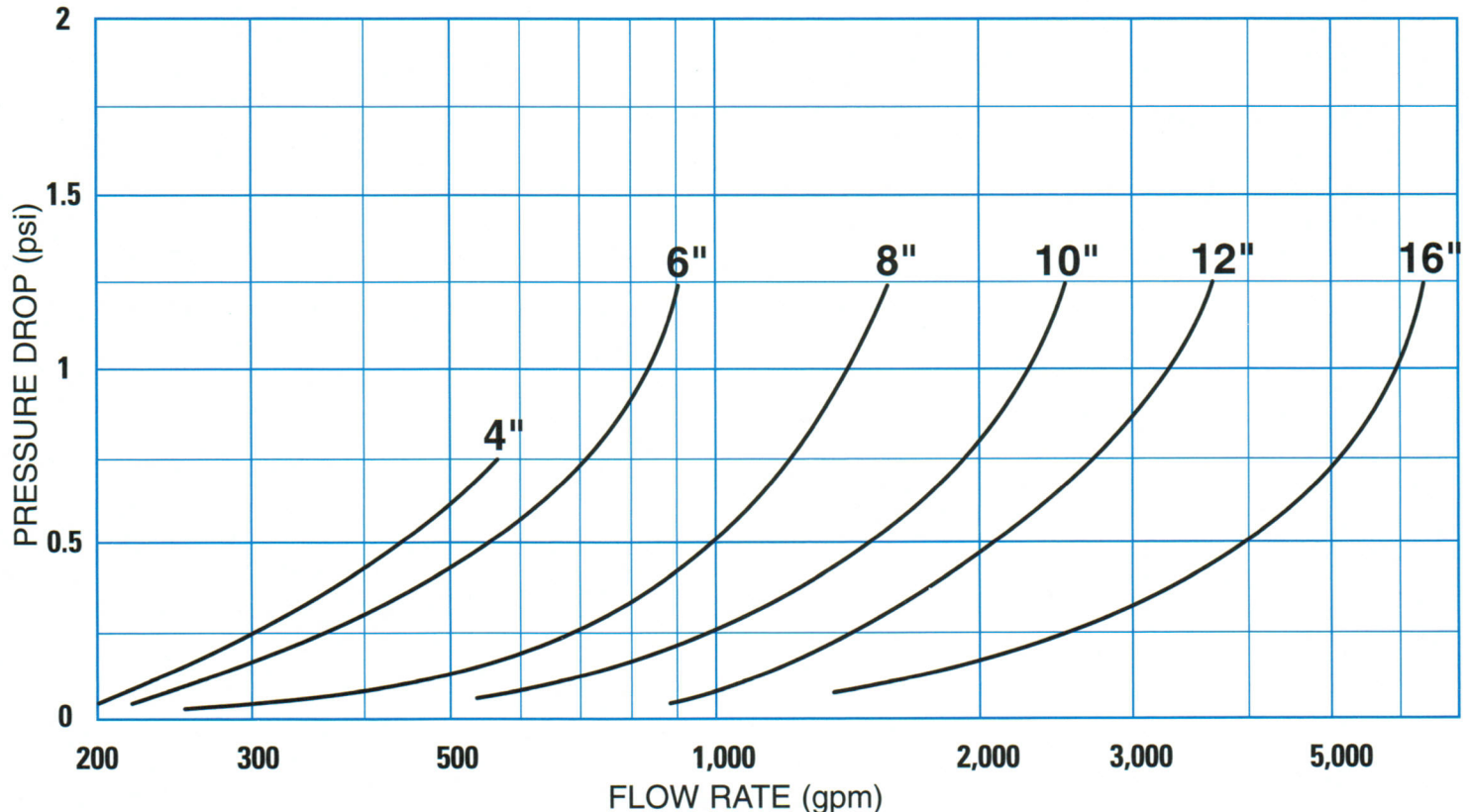
Supply a V-wire 316 stainless steel basket with 3/16" square holes and 62% open area. Supply one spare basket for change out.

Strainer to be FO series as manufactured by Mer-Made Filter, Denmark, South Carolina 29042, 803-793-4265.

## Option - reducing strainer

Strainer outlet shall reduce to pump suction size by use of a full concentric ❸ reducing section.

## MER-MADE FILTER



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