

### INSTALLATION AND OPERATING INSTRUCTIONS

**NOTE:** Prior to installation, consult your Engine Manual for recommended pipe size and strainer location. For proper protection, A.B.Y.C. Standards E-1 (Bonding of Direct Current Systems) and E-2 (Cathodic Protection) must be adhered to.\* (These Standards may be obtained from the American Boat & Yacht Council, Inc., 613 Third Street, Suite 10, Annapolis, MD 21403).

- 1). The PERKO Water Strainers have been designed to be installed on the intake side of the water cooling system.
- 2). Mount strainer on a flat surface in a vertical position. Allow clearance above strainer to remove basket for cleaning.
- 3). For correct installation, note that the inlet and outlet fittings are marked on the top casting. For convenience in piping, there are mounting lugs on both sides of the strainer.
- 4). Drill mounting holes, using mounting lugs on strainer as a template. Strainer should be mounted to ensure proper support from bulkhead to eliminate any strain on the pipe.
- 5). PERKO strainers are designed to give 100% full flow, without restriction of pipe size (see Instruction No. 7). The use of reducers may cause engine damage and therefore is not recommended. The following table shows the rated strainer open area to pipe cross-section ratios:

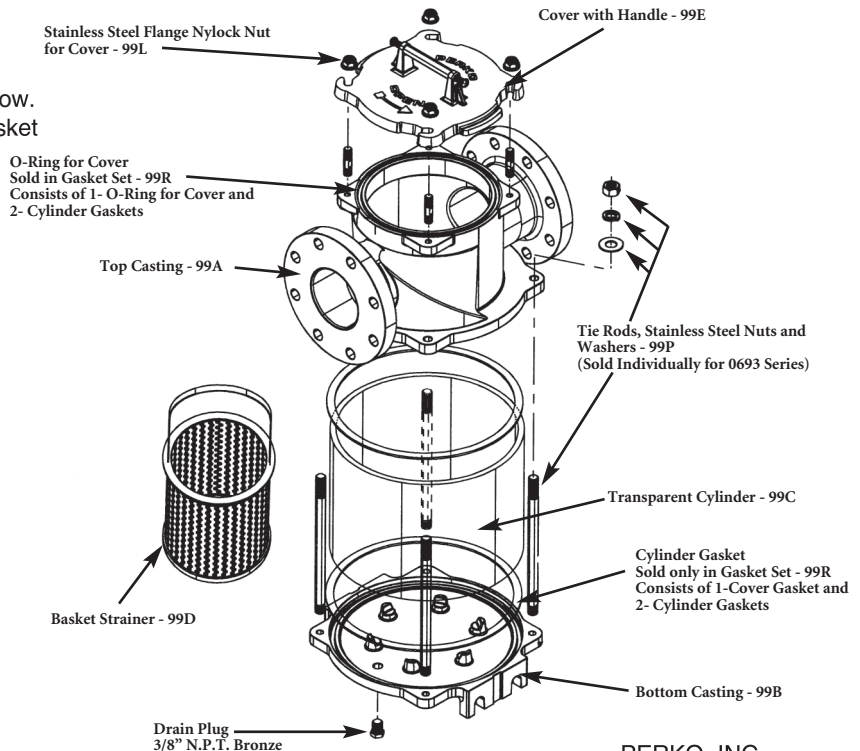
Cat. No.	Pipe Size	Ratio
0693012PLB	4"	10:1

- 6). After all connections are complete, start engine and check entire system for leaks.
- 7). **IMPORTANT:** Periodic inspection and removal of foreign matter is essential for safe operation. This requirement will vary, depending on amount of use and local operating conditions. Quick cleaning of strainer is accomplished by removal of basket through access in top in casting.
- 8). **IMPORTANT:** Periodic inspection of components is also essential for safe operation. Make sure to check castings, fasteners, cover gaskets, plug, tie rods, etc. for damage or deterioration on a regular schedule.
- 9). **WINTERIZING:** To prevent damage by freezing, drain the strainer cylinder prior to storage in freezing temperatures. If an antifreeze solution is used to flush the engine and remain in contact with the strainer cylinder, use only propylene glycol based solutions. DO NOT USE ethylene glycol based solutions, as they will cause clouding of the cylinder surface.

#### Spare Parts

Specify Cat. No. of Strainer, Size and Part No. below.  
(For Example: 069301299R Specifies a rubber gasket kit for a 4 inch strainer)

- 99A - Top Casting
- 99B - Bottom Casting
- 99C - Transparent Cylinder
- 99D - Basket Strainer
- 99E - Cover with Handle
- 99L - Stainless Steel Flange Nylock Nut & Stud for Cover
- 99P - Tie Rods, Nuts and Washers  
Consists of: (1 of each)
- 99R - Rubber Gasket Kit consists of:  
1 - Cover O-Ring and  
2 - Rubber Cylinder Gaskets



# Fig. 0693 4" Intake Water Strainer Flow Chart

