

## INSTALLATION AND OPERATING INSTRUCTIONS

**NOTE:** Prior to installation, consult your Engine Manual for recommended pipe size and strainer location. Flow charts are provided on the back of this sheet to aid in the selection of the proper strainer size for your system. 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.).

- 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 Note 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:

| <u>Cat. No.</u> | <u>Pipe Size</u> | <u>Ratio</u> |
|-----------------|------------------|--------------|
| 0493004PLB      | 1/2              | 30:1         |
| 0493005PLB      | 3/4              | 25:1         |
| 0493006PLB      | 1                | 20:1         |
| 0493007PLB      | 1-1/4            | 13:1         |
| 0493008PLB      | 1-1/2            | 17:1         |
| 0493009PLB      | 2                | 13:1         |
| 0493010PLB      | 2-1/2            | 10:1         |
| 0500009PLB      | 2                | 20:1         |
| 0500010PLB      | 2-1/2            | 18:1         |
| 0500011PLB      | 3                | 14:1         |



- 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: 049300599F Specifies a cover gasket for a 3/4 inch strainer)

|                            |  |   |
|----------------------------|--|---|
| 99A - Top Casting          | 99L - Hinged Bolt for Cover with Pin, Nut and Washer | 99P - Tie Rods, Nuts and Washers Consists of: |
| 99B - Bottom Casting       |  | (4 of each for 0493 Series)                   |
| 99C - Transparent Cylinder | *99M - Cork Gasket Kit Consists of:                  | (1 of each for 0500 Series)                   |
| 99D - Basket Strainer      | 1 - Cover Gasket and                                 |   |
| 99E - Cover with Basket    | 2 - Cork Cylinder Gaskets                            |   |
|                            |  | *99R- Rubber Gasket Kit Consists of:          |
|                            |  | 1 - Cover Gasket and                          |
|                            |  | 2 - Rubber Cylinder Gaskets                   |

- Note: Older model strainers utilizing cork cylinder gaskets must order 99M - Cork Gasket Kit and newer model strainers must order 99R - Rubber Gasket Kit.

# Fig. 0493 & 0500 Intake Water Strainers Flow Charts

