

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., 3069 Solomon's Island Road, Edgewater, MD 21307).

- 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:

Cat. No.	Pipe Size	Ratio
0593004PLB	1/2	30:1
0593005PLB	3/4	25:1
0593006PLB	1	20:1
0593007PLB	1-1/4	13:1



- 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.
- 10). **OPERATION: Normal operation of strainer** (not in flush mode) occurs when handle is fully clockwise (handle directly above a wing nut and perpendicular to the inlet/outlet axis of the strainer). This results in raw water flowing through the strainer and locking out the garden hose inlet.
To engage flushing operation:
 - (a) Connect garden hose to hose inlet fitting and turn on city water at supply spigot.
 - (b) Turn handle on strainer fully counterclockwise (90°) until handle is parallel to inlet/outlet axis. This unlocks check valve on the garden hose connection and blocks raw water inlet to strainer.
 - (c) Start engine and **ONLY** run at idle.
 - (d) Immediately check the strainer sight glass to see that city water is flowing through the strainer to flush the engine. Also check the temperature gauge to ensure that flow sufficient to prevent overheating.
 - (e) After a few minutes, shut down the engine, turn handle back 90° clockwise, turn off city water and remove the garden hose.

FIG. 0593 FLUSHING STRAINER SPARE PARTS ORDERING INFORMATION

Specify Cat. No. of Strainer, Size and Part No. below. **See Diagram on Back**
 (For Example: 049300599A Specifies a Top Casting for a 3/4 inch strainer)

Body Spare Parts

- 049300_99A - Top Casting
- 049300_99B - Bottom Casting
- 049300_99C - Transparent Cylinder
- 059300_99D - Basket Strainer
- 049300_99E - Cover with Basket
- 0493DP_99L - Hinged Bolt for Cover with Pin, Nut and Washer
- 0493DP_99P - Tie Rods, Nuts and Washers Consists of:
 (4 of each for 0493 or 0593 Series)
- 0493DP_99R - Rubber Gasket Kit Consists of:
 1 - Cover Gasket and
 2 - Rubber Cylinder Gaskets

Flushing Assembly Spare Parts

- 059300_99A - Valve Shaft & O-Rings
- 059300_99B - Sleeve
- 059300_99C - Cover Assembly
- 080500_99D - Handle

FIG. 0593 FLUSHING STRAINER SPARE PARTS ORDERING INFORMATION

Fig. 0593 Flushing Strainer Valve Assembly Spare Parts

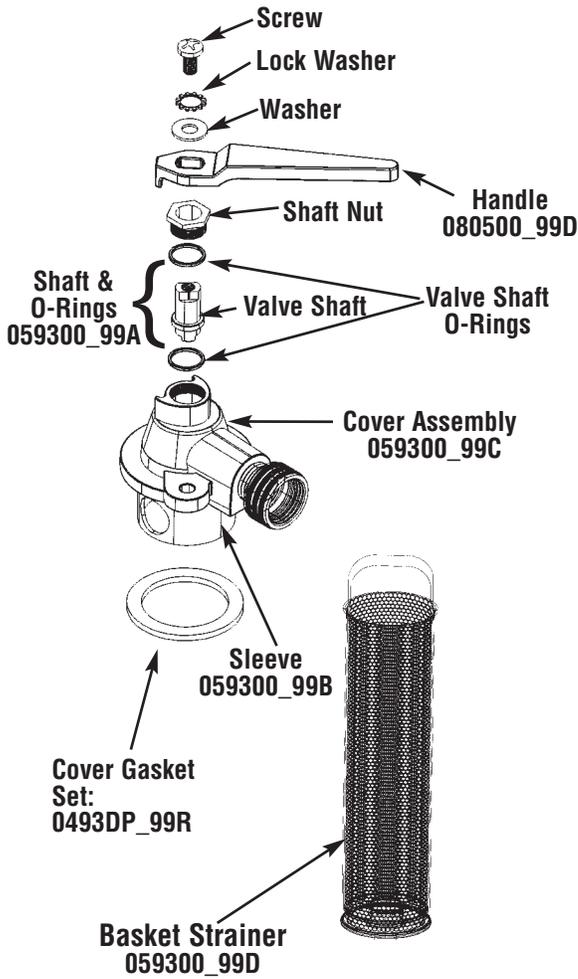


Fig. 0593 Body Spare Parts

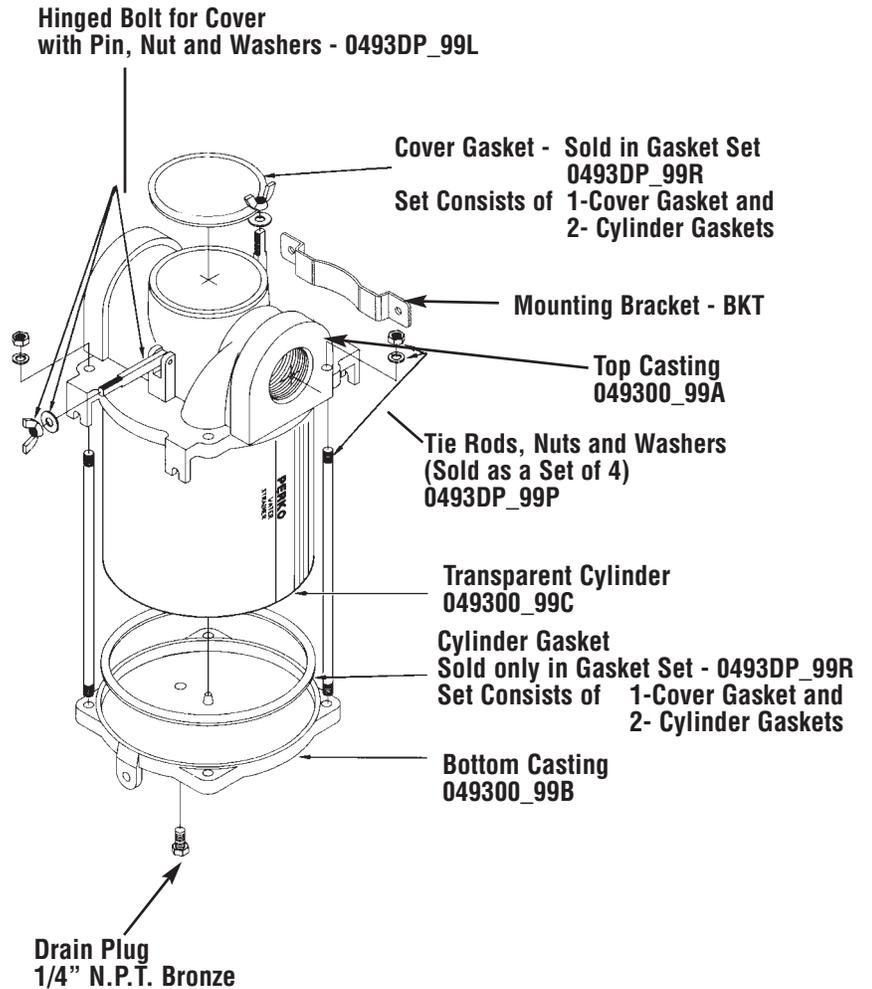


Fig. 0593 Flushing Water Strainers Flow Charts

