Installation and Maintenance Instructions Including New and Repair Parts Data for

"HEAD-MATE" Seaclos

HOSE CONNECTORS

90 Degree

45 Degree





Fig. 1545

Fig. 1546

For ¾-inch or 1½-inch I.D. Hose.

ROUND STRAINERS



Fig. 8561

SEACLO

THE "HEAD-MATE"

Fig. 1460

BASIC "FULL-WAY" SEACOX FOR HOSE





Fig. 1561

For % or 1½-inch I.D. Hose.

"FULL-WAY" SEACOX

For Inlets
Straight Tail Piece





Fig. 1507

Size ¾-inch

To complete your Seaclo installation we recommend "Full-Way" Seacox with thru-hull connections for the supply and discharge lines. These fittings are easy to install and much easier to operate. They have been accepted for listing and labeling by the Yacht Safety Bureau.

For the supply line use a Seacock with thru-hull connections and a strainer. Fig. 1507 is illustrated. For the discharge line use a Seacock with thru-hull connections only. Fig. 1511 shows this Seacock with a curved tailpiece.

The sizes of the Seacox to order for this model are given under the Seacock illustrations.

You'll find W-C Hose Connectors exceptionally convenient when connecting up hose on your toilet lines—%-inch size for inlet; 1½-inch size for outlet.

Fig. 1561 "Full-Way" Seacox for Hose is also available.

"FULL-WAY" SEACOX

For Outlets
90 degree Curved Tail Piece



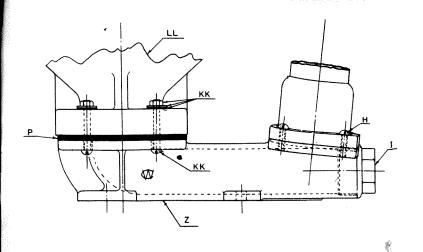
Fig. 1511

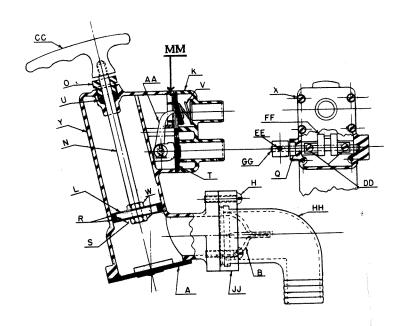
Size 1½-inch

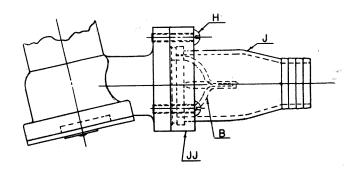


WILCOX-CRITTENDEN

A GULF + WESTERN PRECISION ENGINEERING COMPANY MIDDLETOWN, CONNECTICUT 06457

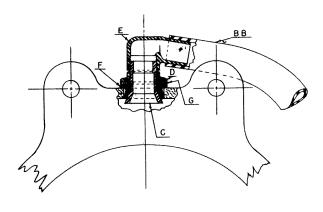


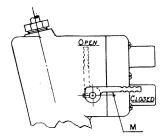




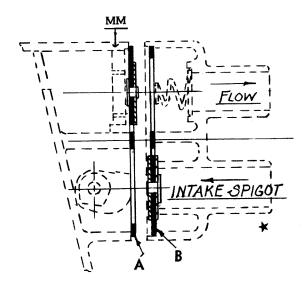
IN ORDERING PARTS BE SURE TO SPECIFY:

- (1) Model Name ("Head-Mate")
- (2) Type Number*
- (3) The Number and Description of the Parts wanted.
- *If your "Head-Mate" Seaclo does not have a Type Number, state "No Type Number."





IMPORTANT: When boat is in water, inlet valve should be closed whenever toilet is not in use.



TO REPLACE SPRING AND VALVE FLAP ASSEMBLY ON "HEAD-MATE" TOILET.

- 1. Disconnect Intake Hose at Inlet Water Valve Housing. \bigstar
- With Flush Handle in "up" position, remove the six Housing Screws.
- 3. Remove Inlet Water Valve Housing cover.
- 4. Remove Inlet Water Flap Valve Assembly A & B (see "T" above.)
- Make sure that Valve Plate "MM" is left in original position.
- 5. Place new Flap Valve Assembly "T" in position as indicated in this sketch.
- Carefully replace Housing "K" in position, and make sure Flap Valve Assembly "T" is properly aligned before resetting the six Housing Screws.

"HEAD-MATE" PARTS LIST

Dwg.	Quantit		Dwg.	Quantity Per Toilet	Part Name
Ref.	Per Toil	et Part Name	Ref.	Per 1 oues	Flush Valve Water Outlet Spring †
Α	1	Flap Valve Assembly †	V	ı	· · · · · · ·
В	1	Back Water Check Valve ("Joker")†	W	2	Piston Retaining Nut
		No. 1	X	6	Valve Housing Screw†
С	1	Bowl Spud	Y	1	Cylinder
D	1	Bowl Spud Nut		1	Seat and Cover (not illustrated)
E	1	Bowl Spud Elbow	Z	1	Waste Arm
F	1	Bowl Spud Rubber Gasket	AA	1	Vacuum Breaker Finger †
G	1	Bowl Spud Friction Washer	BB	1	Tubing-Flush Water Hose
Н	7	Coupling and Cylinder Flange Screws	CC	1	Piston Rod Handle
Ţ	1	Waste Arm Plug	DD	2	Cam Shaft Screws †
- 1	•	Discharge Tail Piece (Straight)	EE	1	Flush Water Lever Screw†
J			FF	1	Flush Water Valve Cam †
		(Optional)	GG	1	Flush Water Valve Lever Shaft
K	1	Inlet Valve Cover	HH	1	Discharge Tail Piece
L	1	Piston			(90-degree Elbow)
М	1	Flush Valve Lever	IJ	1	Discharge Tail Piece Coupling Flange
N	1	Piston Rod		[4	Bowl Hold-Down Screw
0	1	Piston Rod Packing Nut	.,,,	∤8	Bowl Hold-Down Washer- St. Steel*
P	1 1	Bowl Gasket	KK	[1	Bowl Hold-Down Washer-Rubber*
Q	1	Flush Water Valve Seal†		4	Bowl Hold-Down Nut*
	1	Piston Ring	.1	Č1	Bowl, complete with Bowl Spud Assembly
R	2		1	1;	Bowl Spud*
S	1	Piston Ring Spring	١	۱i	Bowl Spud Nut*
			LL	1;	Bowl Spud Rubber Gasket*
T	§ 1	Inlet Flap Valve Assembly A†		1;	Bowl Spud Friction Washer*
	} 1	Inlet Flap Valve Assembly B†		ţ*	•
U	1	Piston Rod Packing †	ММ	1	Valve Plate

(*Note: Items shown in italics are regularly furnished with Part first listed within bracket.)

"HEAD-MATE" REPAIR KIT — W-C FIG. 1520 AVAILABLE AT YOUR BOAT SUPPLY DEALERS

†These numbers in Parts List indicate the items included in a standard "Head-Mate" Repair Kit. These new parts are all items you will normally need to put your Seaclo in first-rate operating condition.

You will save time and money by using this handy Repair Kit instead of buying and installing the Parts separately.

Keep a Repair Kit on hand at all times.

NOTE: Refer to illustration at left for proper installation of Flap Valves.

"SEA-LUBE" LUBRICANT



Fig. 4034

This soluble cleansing lubricant easily dissolves accumulations of salt crystals, softens up leathers, lubricates cylinder walls and keeps the unit working freely.

AVAILABLE IN HANDY PINT BOTTLES.

GENERAL INSTRUCTIONS

INSTALLATION:

W-C and Sands Seaclos may be installed either above or below the boat's waterline. The toilet must be securely fastened to prevent rocking during pumping, so it is best to bolt it to a board and screw the board to the cabin flooring to insure a solid mounting.

Hose may be used for piping and should be installed so as to avoid sharp bends. See Hose Connectors Figures 1545 and 1546, for use with all but "Senior" Seaclos. The flush water intake in the hull should be forward of and lower than the discharge outlet. A flap should be placed over the outside of discharge outlet to prevent gurgling.

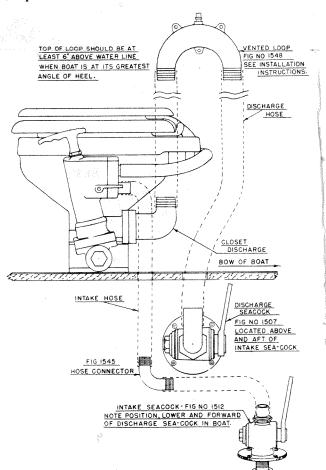
The special backwater check "Joker" valve is designed to help prevent flooding on below-waterline installations. This makes it possible to run the discharge line direct to the seacock, omitting the high loop and shortening the line for easiest discharge. On large sailboats where the toilet may be some distance below waterline a vented loop waste line is recommended. See Vented Loop, Figure 1548, for use with all but "Senior" Seaclos.

Use W-C "Full-Way" Seacox with thru-hull connections, Figure 1508, for the hull supply fitting, and Figures 1507 or 1511 for the hull discharge fitting. The inside diameter of the hose required for supply and discharge lines is noted under each fitting shown on the front cover of this folder. Hose is always measured by inside diameter. The tailpieces supplied on W-C and Sands Seaclos and Seacox will take hose with clamps. Preformed automobile radiator hose can sometimes be used to advantage.

OPERATION:

An instruction plate is always furnished with each Seaclo. Be sure to place it where it will be seen and read! Your landlubber guests will appreciate proper instructions on the use of your toilet when they first come on board. You will save yourself considerable trouble if at the same time you emphasize that rags, bobby pins, paper towels, etc. should not be discarded in the toilet.

When a Seaclo is first placed in use, it may be necessary to put a pail of water into the bowl to prime the pump. This will not be required after the Seaclo has once been used.



Where the toilet is set considerably below the waterline, the W-C Vented Loop, Fig. 1548, should be installed in the discharge line, as shown in line drawing above. The bronze "U" loop has integral air vent which works automatically to prevent back syphoning into toilet, yet seals tightly so there is no possibility of leakage.

The flush water supply valve is opened by raising the lever on the side of the cylinder.

Before using the toilet, open the supply valve and pump some water into the bowl. After use, keep the supply valve open and pump slowly.

Once the bowl is clean, pump five or six extra strokes to thoroughly clear the discharge line of all refuse. Then close the supply valve and pump until the bowl is empty. When running in rough seas, or leaving the boat overnight, it is advisable to pump the bowl dry to prevent splashing. When the boat is unattended, it is advisable to close both sea cocks.

NORMAL CARE AND MAINTENANCE:

If your Seaclo works hard, check to make sure the sea cocks are wide open and that no kinks appear in the lines. Sometimes the sea cocks work shut with consequent restriction in the intake or discharge lines.

Some oil or grease on the piston rod and bearing pins in pump handle assembly makes for easier pumping. To reduce wear and maintain easy pumping operation, do not tighten the piston rod packing nut any more than necessary to prevent leakage around the rod. A little waterproof grease applied once a season to the packing found under this nut will do the trick.

If a foreign object becomes lodged in the toilet, remove the screws which hold the tail piece to which discharge pipe is attached and check the "Joker" valve. This is the spot where matches, bobby pins or similar items are likely to catch and cause trouble.

If pumping action becomes stiff and the above checks have been made, "Sea-Lube", a special water soluble lubricant, should be used. A few cups of "Sea-Lube" put into a dry bowl and pumped out of the bowl into the cylinder, but not overboard, will keep the unit working freely. A stroke or two is enough. Try to allow the "Sea-Lube" to stand for 24 hours.

HAUL-OUT:

When you haul out for storage, certain steps should be taken to keep your Seaclo in first-class condition.

Fresh water should be allowed to stand in the pump for several days to dissolve the accumulation of salt in the cylinder and hose lines. Repeat this process, then pump dry. Remove drain plug in waste arm to drain any water which might remain. Replace drain plug and pour a few cupfuls of "Sea-Lube" into the bowl and pump the "Sea-Lube" out of the bowl into the bottom of the cylinder. A stroke or two is enough. Allow "Sea-Lube" to stand for 24 hours—pump dry and remove drain plug.

DO NOT PUT OIL, KEROSENE, GASOLINE OR ALCOHOL IN THE BOWL OR PUMP.

THEY WILL RUIN THE VALVES. If anti-freeze is used, it must be a glycol base.

COMMISSIONING INSTRUCTIONS:

Replace drain plug in waste arm and use "Sea-Lube" as outlined in Haul-Out Instructions. Allow "Sea-Lube" to stand for 24 hours. If Haul-Out Instructions were followed, your Seaclo should be ready for use.

In the event your Seaclo is worn or has not had proper care, it is recommended that the pump unit be disassembled, the required new parts installed and the unite reassembled, with waterproof grease being applied to the piston leathers and cylinder wall. This greasing should be done whenever disassembly is required.

Be sure to check the "Joker" valve. If stiff, it should be replaced. Proper care will assure you of a long-lasting, free-working unit.

After boat is overboard it is good practice to make periodic checks on the waterlines, etc. to make certain that all connections are tight and that valves are functioning properly.

REPAIR PARTS:

After considerable use, your Seaclo may require some repair parts. A handy W-C Repair Kit is available, containing all of the items you will probably need. Call for it by name. Be sure to use only W-C repair parts made for your model of toilet.

