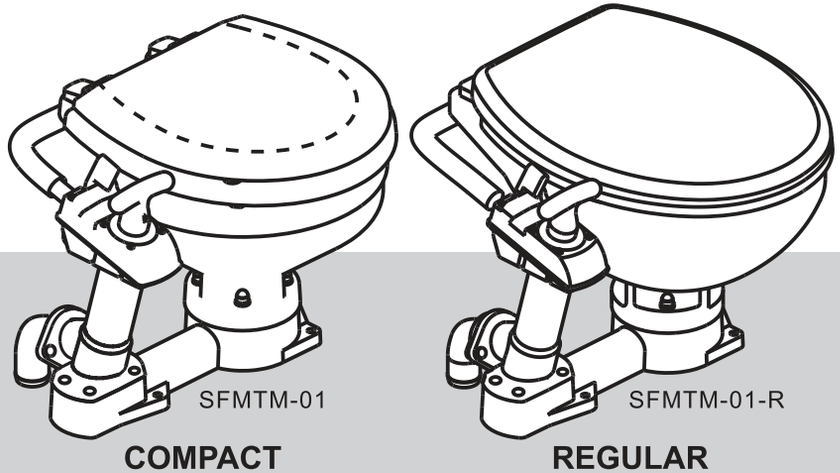
manual

SEAFLO®

MANUALLY OPERATED MARINE TOILET



COMPACT **REGULAR**

SEAFLO manually operated marine toilet designed for comfort, convenience and worry-free days on the water, this head features a residential-like china bowl and an ergonomic handle that makes it easy to flush. The powerful nozzle flush system provides robust full bowl coverage. A compact footprint enables this head to fit in tight locations and the free-standing manual pump easily adapts for right or left handed installation.

SEAFLO®

FEATURES

- Twist ‘n’ lock action safety handle guards against flooding and waste backflow by locking the waste outlet valve shut.
- Reversible pump mounting allows re-assembly for left hand operation by installer.
- Powerful self-priming, double-acting piston pump.
- Strong swirl action for efficient flushing.
- Crevice free contours and skirted base for added cleanliness and hygiene.
- Contoured handle and conveniently positioned flush control lever for ease of use.
- Angled pump housing and long stroke for easier pumping.
- Spring assisted top valve closure for easier priming.
- Automatic vacuum breaker operated by flush control lever for easier bowl emptying.
- Constant 38mm (1-1/2’’) bore waste path minimises blockages.
- Aortic joker valve combines full 38mm (1-1/2’’) bore with automatic back-flow prevention.
- Multi-angle discharge elbow for ease of installation.
- Accessible mounting points for faster installation.
- All fastenings face front or top for superbly simple servicing without need for special tools.
- Renewable external seal housing for quick, clean placement of seal and piston rod guide.
- Positively located gaskets ensure correct re-assembly.
- Dual function base plug combines winter drain point with easy cleaning access.

MATERIALS

- Luxury wooden seat and cover with tough baked enamel coating.
- Hygienic white ceramic bowl for ease of cleaning.
- Pump and base moulded in ABS or polypropylene with selected parts in acetal resin, fitted with 316 passivated stainless steel fastenings, brass weights and neoprene seals and gaskets.

PERFORMANCE

- Flushing pump self-primes from dry up to 1 metre (3ft) below the base.
- Waste pump discharges up to 3 metres (9ft) above the base.

APPLICATIONS

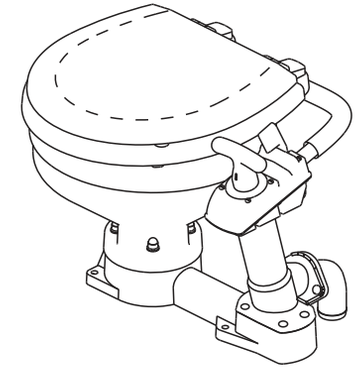


SEAFLO manual toilets are designed specifically for marine use. Consult SEAFLO for advice about possible non-marine applications.

You may install SEAFLO compact bowl manually operated marine toilets in both power and sailing craft, either above or below the waterline, for use on sea, river, lake or canal.

Your installation may discharge the waste either overboard (provided that your national and local regulations allow this),or into a treatment system or into an on-board holding tank (U.S.C.G. Marine Sanitation Devices Type I, II and III).

Optional re-assembly by installer for left hand operation.



INSTALLATION INSTRUCTIONS

YOUR TOILET is just one part of a system. Correct installation of the whole system is essential if you want the toilet to perform properly, operate reliably and safely, and give satisfactory length of life. The toilet is delivered assembled for right-handed operation. The toilet may be re-assembled with the pump on the left hand side. The seat and lid is delivered boxed and unfitted for its protection.

1. RE-ASSEMBLY FOR LEFT HAND USE

If you wish to change the pump mounting from right to left hand, do so before installing the toilet.

- Pull off the hose (key 13) that runs from the pump to the bowl.
- Remove the 4 screws that secure the pump assembly to the base.
- Lift off the pump assembly and leave the base valve gasket (key 17) on its 3 locating pegs.
- Remove the 4 bolts (key 5) that secure the bowl to the base.
- Rotate the bowl 180° and re-secure it, using the nylon washers (key 5) to protect the ceramic from the stainless steel washers and nuts (key 5).
- Rotate the pump assembly 180° and re-secure it.
- Rotate the push-fit intake elbow (key 12) 180° and refit the hose between the pump and the bowl.

2. LOCATION

- Select a location that will give sufficient clearance all round and above the toilet. Ensure that there is room to operate the pump and that there is access to the drain plug at the end of the base.
- The mounting surface must be flat, rigid and strong enough to support a man's weight and should be at least 50mm (2") wider and 50mm (2") deeper than the base of the toilet.
- You will need sufficient clearance below the mounting surface to be able to secure the mounting bolts.
- The seat and lid should be able to swing up and over at least 110°, so that they will not fall forward when the craft heels or pitches. When they are swung up they must be supported so that the hinges are not strained.

3. MOUNTING

YOU WILL NEED:

- 4 x 8mm (5/16") diameter stainless steel bolts of length to suit the thickness of the mounting surface.
- 4 stainless steel nuts, preferably self-locking. If you do not use self-locking nuts you will need some nut-locking compound.
- 8 large stainless steel washers not more than 21mm (13/16") diameter.
- A small tube of white silicone sealant.
- Offer up the toilet in the selected position and, using the holes in the base as a guide, mark the positions for the 4 bolt holes on the mounting surface. Remove the toilet and drill 4 vertical holes of 9mm diameter through the mounting surface.
- Apply a bead of white silicone sealant to the outer rim of the bottom base.

  Bolt down the toilet and tighten the fastenings securely. If you are not using self-locking nuts, use nut-locking compound.

4. THROUGH HULL FITTINGS

YOU WILL NEED:

- 19mm (1-1/2'') bore seacock for the flushing water inlet, and, if you are discharging the waste overboard, a 38 mm (1-1/2'') bore seacock for the waste outlet.
- Follow the seacock manufacturer's own instructions concerning materials and methods of installation.
- Ensure the inlet seacock is positioned where it will be below the waterline at all times when the craft is underway, and also ensure that any outlet seacock is both aft of, and higher than, the inlet seacock.



HAZARD RISK - Through Hull Fittings

If the installation of the toilet results in it being connected to ANY through-hull fitting that may possibly be below the waterline at ANY time, whether when the craft is at rest, underway and heeling or rolling or pitching, you must install the toilet in accordance with these Installation Instructions. If you do not, water may flood in, causing the craft to sink, which may result in loss of life.

FOLLOW THESE INSTRUCTIONS!



HAZARD RISK - Accidental Damage

If the toilet is connected to ANY through-hull fittings and if the toilet or pipework is damaged, water may flood in causing the craft to sink, which may result in loss of life.

Therefore, if you are making connections between the toilet and ANY through-hull fittings that may possibly be below the waterline at ANY time, full bore seacocks MUST be fitted to those hull fittings, to allow them to be shut off.

The seacocks MUST also be positioned where they are easily accessible to all users of the toilet. If, for any reason, it is not possible to do this, then secondary full bore marine quality valves MUST be fitted to the hoses where they are easily accessible.

USE SEACOCKS!



CAUTION: Use lever operated, full bore marine seacocks and valves. The use of screw-down gate valves is not recommended.

5. PIPEWORK - SELECTION OF CORRECT METHOD

YOU MUST select the correct method for the inlet pipework from 2 options and for the outlet pipework from 4 options, according to whether the toilet is above or below the waterline, and to whether it discharges the waste overboard or into an on-board holding tank.



HAZARD RISK - Pipework Becomes Loose

If the toilet is connected to ANY through-hull fittings and if the pipework becomes disconnected, either from a through-hull fitting or seacock, or from the toilet or any secondary valve, water may flood in and may cause the craft to sink, which may result in loss of life. Therefore the ends of ALL flexible hoses fitted directly or indirectly between the toilet and ANY through-hull fitting that may possibly be below the waterline at ANY time, MUST be secured to the hose tails to which they are connected, using two stainless steel worm-drive hose clips.

USE HOSE CLIPS!

5.1 PIPEWORK - GENERAL INSTRUCTIONS FOR ALL OPTIONS

YOU WILL NEED:

Spiral reinforced smooth bore flexible hoses for both the 19mm (3/4") id inlet and the 38mm (11/2") id outlet pipework

Two stainless steel worm-drive hose clips for every hose tail connection (4, 6 or 8).

- Secure the hose runs so that the hoses cannot move and chafe, and so that they do not exert any leverage on the hose tail fittings to which they are connected, as this may cause adjacent joints to leak.
- Avoid sharp bends in the hoses that may cause them to become kinked.
- Keep all pipework lengths as short as possible, whilst complying with these instructions. Unnecessary inlet or outlet hose length just makes the toilet harder to pump.
- If it is difficult to fit the hose onto the hose tails of the toilet or seacocks, lubricate it with water, or soften the hose by dipping the end of it in hot water.



CAUTION: Do not apply flame to the hose. Do not apply flame or any heat to the plastic hose tails on the toilet. Do not use oils, greases or synthetic lubricants. Do not apply sealing compounds to any hose connections. Do not over tighten hose clips. Any of these actions may result in cracking or breakage of the plastic parts of the toilet.

- Secure the ends of all hoses to the hose tails with two stainless steel worm-drive hose clips, ensuring that all inlet connections are airtight and that all outlet connections are watertight.
- The Discharge Elbow (key 16) may be rotated 360° to suit your installation. Always slacken the 2 securing screws, adjust the discharge elbow to the required position and re-tighten the 2 securing screws before you connect the hose to it.

CAUTION: Failure to follow this procedure may result in leaks between the discharge elbow and the pump cylinder.

5.2 INLET PIPEWORK - 2 OPTIONS

OPTION 1: TOILET BELOW THE WATERLINE

YOU MUST fit a 19mm (3/4") Vented Loop fitting, Run the inlet hose by the most direct route from the inlet seacock to the flushing pump inlet tail.

- Remove the white hose supplied with the toilet, which connects the flushing pump outlet tail to the elbow (key 12).
- Rotate the intake seal (key 5) so that the elbow points upwards.
- Replace the white hose with a longer length of 19mm (3/4") id hose and arrange it to form an anti-syphon loop whose highest point is at least 20cm (8") above the highest possible waterline, and fit the Vented Loop at the highest point.
- Secure the ends of all hoses with two stainless steel worm-drive hose clips.

HAZARD RISK - Bowl Rim Below Waterline

If the toilet is connected to ANY through-hull fittings, and if the rim of the bowl falls below the waterline, water may flood in causing the craft to sink, which may result in loss of life.

Therefore, if the rim of the toilet is less than 20cm (8") above the waterline when the craft is at rest, or if there is ANY possibility that the rim of the bowl may be below the waterline at ANY time, a ventilated anti-syphon loop MUST be fitted in any pipework connected to a through-hull fitting, irrespective of whether inlet or outlet.

USE VENTED LOOPS!

SPECIAL NOTE 1:

The smaller bore inlet pipework is more hazardous than the larger outlet pipework. Unless there is a ventilated anti-syphon loop in the inlet pipework, water will flow into the bowl whenever both the inlet seacock is open and the rim of the bowl is below the actual waterline.

Although moving the Flush Control Lever (key 24) to the "Shut" position will restrict the flow, this lever CANNOT be relied upon as a shut-off valve.

SPECIAL NOTE 2:

Making a loop in the hose without fitting a vent may be just as hazardous as no loop at all, because water may syphon over a loop. It is the vent that actually prevents the syphon.

OPTION 2: TOILET ALWAYS ABOVE THE HEELED WATERLINE

YOU MAY need A 19mm (3/4") non-return valve

- Run the inlet hose by the most direct route from the inlet seacock to the flushing pump inlet tail.
- For maximum convenience of use, install a 19mm (3/4") in-line non-return valve next to the inlet seacock, which will ensure that the pump remains primed in between usages.

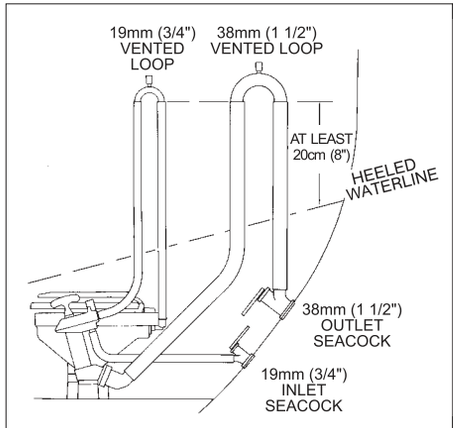


Figure 1.

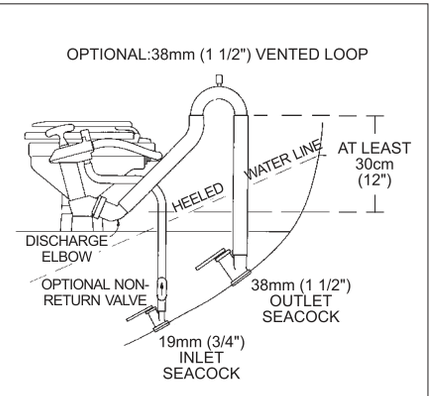


Figure 2.

5.3 OUTLET PIPEWORK - 4 OPTIONS

OPTION 1: TOILET BELOW THE WATERLINE AND DISCHARGING OVERBOARD.
(See Figure 1 on Page 6)

YOU MUST fit a 38mm (11/2") Vented Loop fitting

- Arrange the outlet hose to form a loop which is at least 20cm (8") above the highest possible waterline, and fit the vented loop at the highest point.

OPTION 2: TOILET ABOVE THE WATERLINE, AND DISCHARGING OVERBOARD.
(See Figure 2 on Page 6)

YOU MAY fit a 38mm (11/2") Vented Loop fitting

- Run the outlet hose up from the discharge elbow to form a loop at least 30cm (12") higher than the discharge elbow.
- If you fit a vented loop at the top of the hose loop this will ensure that you can keep some water in the base of the toilet without risk of it being siphoned away.

OPTION 3: TOILET WASTE DISCHARGING INTO HOLDING TANK, TOP OF HOLDING TANK ABOVE DISCHARGE ELBOW AT ANYTIME. (See Figure 3 below)

YOU MUST fit a 38mm (1-1/2") Vented loop fitting

- If there is ANY possibility that the discharge elbow may be below the top of the tank at ANY time, a ventilated anti-syphon loop must be fitted in the outlet pipework to ensure that the contents of the tank do not syphon out through the bowl.
- Arrange the outlet hose to form a loop which is at least 20 cm (8") above the highest possible level that the tank may reach, and fit the Vented Loop at that highest point.

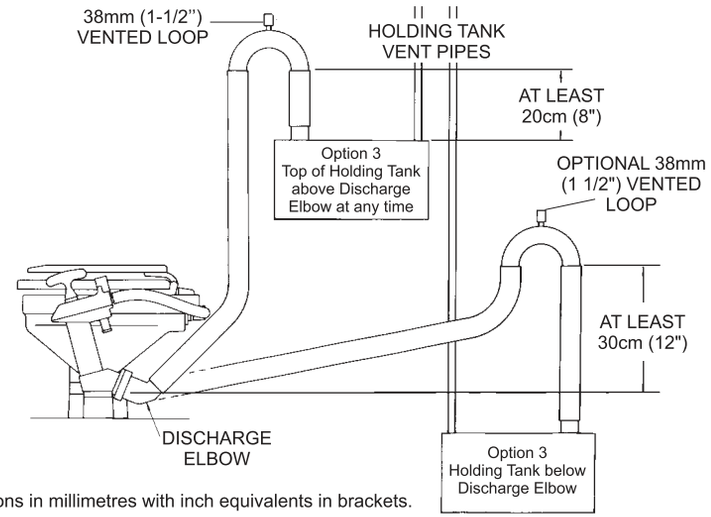
OPTION 4: TOILET WASTE DISCHARGING INTO HOLDING TANK, DISCHARGE ELBOW ALWAYS ABOVE TOP OF HOLDING TANK. (See Figure 3 below)

- Run the outlet hose up from the discharge elbow to form a loop at least 30cm (12") higher than the discharge elbow.
- This will create a water seal at the Joker Valve that will prevent bad odours from escaping through the toilet.

YOU MAY fit a 38mm (1-1/2") Vented Loop fitting

- If you fit a vented loop at the top of the hose loop this will ensure that you can keep some water in the base of the toilet without risk of it being siphoned away.
- Run the outlet hose up from the discharge elbow to form a loop at least 30cm (12") higher than the discharge elbow.
- If you fit a vented loop at the top of the hose loop this will ensure that you can keep some water in the base of the toilet without risk of it being siphoned away.
- If you fit a vented loop at the top of the hose loop this will ensure that you can keep some water in the base of the toilet without risk of it being siphoned away.

Figure 3



All dimensions in millimetres with inch equivalents in brackets.

6. TESTING

Refer to the Operating Instructions and follow the procedure "2 Normal use".

- If the flushing pump is hard to prime half fill the bowl with fresh water.

7. SAFETY

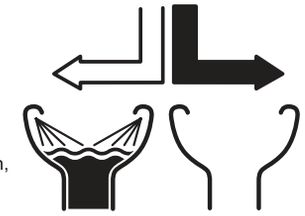
Ensure that this INSTRUCTION MANUAL reaches the owner, skipper or operator of the craft as it contains essential safety information.

ON COMPLETION OF INSTALLATION — SHUT THE FLUSH CONTROL (|▬►)
CLOSE BOTH SEACOCKS

OPERATING INSTRUCTIONS

The toilet is one of the most used pieces of equipment on your boat. Correct operation of the toilet is essential for the safety and comfort of your crew and craft.

1. FIRST USE



After periods without use the toilet may benefit from lubrication.

- Open inlet and outlet seacocks (and secondary valves if fitted).
- Half fill the bowl with warm fresh water.
- Keeping the Flush Control Lever (key 24) in the Shut(|▬►) position, pump out the warm water.

2. NORMAL USE

Open inlet and outlet seacocks (and secondary valves if fitted).

- Before use, ensure that there is enough water in the bowl to prevent the toilet paper becoming compacted at the bottom of the bowl.

  If the bowl is empty, move the Flush Control Lever (key 24) to the Open (⟸) position and pump the handle (key 36) up and down until the flushing pump is primed and water enters the bowl.

  Then Shut (|▬►) the Flush Control.

- Operate the pump with long, smooth strokes for efficient and easy operation.
- During use, pump as necessary to keep the contents of the bowl low enough for comfort.
- Use good quality hard or soft household toilet paper, but do not use more than necessary.
- After use, keep the Flush Control Shut (|▬►) and pump until the bowl is empty.
- When the bowl is empty, Open (⟸) again, and continue to pump until all waste has either left the boat, or reached the holding tank (allow 7) complete up/down strokes per metre (yard) length of discharge pipework).

AFTER USE — SHUT ( ) THE FLUSH CONTROL.
SHUT BOTH SEACOCKS

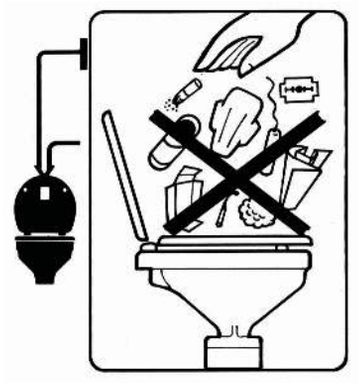
HAZARD RISK - Accidental Damage

If the toilet is connected to ANY through-hull fittings that are below the waterline at any time, and if the toilet or pipework is damaged, water may flood in, causing the craft to sink, which may result in loss of life.

Therefore, after every usage, both seacocks (or secondary valves) MUST be shut.

Whenever your craft is unattended, even if only for a very short period of time, both seacocks (even if secondary valves are fitted) MUST be shut.

- Ensure that ALL users understand how to operate the toilet system correctly and safely, including seacocks and secondary valves.
- Take special care to instruct children, the elderly and visitors.



SHUT SEACOCKS!

NOTE: Do not put anything in the toilet unless you have eaten it first, except toilet paper. Do not put in: Sanitary Towels, Wet Strength Tissues, Cotton Wool, Cigarettes, Matches, Chewing Gum or any solid objects, Petrol, Diesel, Oil, Solvents of any kind or water more than hand hot.

3. CLEANING

CAUTION: Do NOT use aggressive chemical agents such as Acetone or Bleach because plastic parts may crack and the enamel coating on the seat and lid may blister.

- To clean the bowl, use any liquid or cream ceramic cleaner.
- To clean the rest of the toilet, including the seat and lid, use a non-abrasive liquid cleaner. Polish with a dry cloth only.

CAUTION: Do not use abrasive pads on any part of the toilet and do not use cream cleaners except for the bowl.

- To disinfect the toilet, use a liquid disinfectant diluted in accordance with the manufacturer's instructions. You may apply it to all parts of the toilet using a sponge or soft brush as necessary.

CAUTION: Do not use thick liquid toilet cleansers or neat bleach. They may damage the valves, gaskets, seals and the enamel coating of the seat and lid.

SERVICING INSTRUCTIONS

SEAFLO manual toilets do not normally require maintenance during the season, provided that they are winterised in the autumn and overhauled in the spring. However, any toilet will benefit from:

- Thorough flushing - refer to OPERATING INSTRUCTIONS for NORMAL USE.
- Regular use - if not used regularly lubrication is beneficial - refer to OPERATING INSTRUCTIONS for FIRST USE.
- Regularly check all fastenings for tightness and leaks.

HAZARD RISK - Leaks

If the toilet is connected to ANY through-hull fittings and, if the toilet or the pipework develops a minor leak, it can suddenly become a major leak that allows water to flood in, causing the craft to sink, which may result in loss of life. Therefore, if ANY leak develops you MUST repair it immediately.

REPAIR LEAKS IMMEDIATELY!

1. SERVICING & WINTERISATION - PREPARATION

SEAFLO manual toilets are designed to be user serviceable and no special skills or tools are required.

- Flush the toilet in accordance with the OPERATING INSTRUCTIONS for NORMAL USE and, in particular, ensure that all waste has left the discharge pipework and that the bowl is empty.
- CLOSE BOTH SEACOCKS (even if secondary valves are fitted)
- If the vessel is being wintered afloat, WIRE SEACOCKS SHUT
- Be ready to mop up any water that may come out of the system.

2. SERVICING - SEAL REPLACEMENT

If water begins to leak around the piston rod (key 28,29) at the top of the pump, the seal assembly (key 32.33.34) is worn and must be replaced.

YOU WILL NEED:

- Unscrew the seal housing assembly (key 18) using a 24mm (15/16") spanner and remove the entire piston rod assembly from the toilet.
- Wrap some tape around the piston rod within 16mm (5/8") of the handle. Grip the piston rod through the tape, unscrew the handle and remove the bumper washer (key25). Remove the tape.
- Slide the old seal assembly off the piston rod. Wrap one turn of tape around the thread at the top of the piston rod to protect the new seal and slide the new seal assembly onto the piston rod. Remove the tape from the thread.
- Wrap some tape around the piston rod within 16mm (5/8") of the handle. Grip the piston rod through the tape and replace the bumper washer and handle. Remove the tape from the piston rod.
- Slide the whole assembly back into the pump cylinder and tighten in place.

CAUTION: Gripping the piston rod with a tool anywhere except on the 16mm (5/8") below the handle damages the surface in a way that causes rapid seal failure.

3. SERVICING - WINTERISATION

Drain the complete system, both as protection against frost damage and to discourage the growth in the pipework of anaerobic bacteria that cause unpleasant smells.

- Open any secondary valves.
- Remove the base drain plug (key 9,10).
- Disconnect the discharge flange (key 14) from the pump (avoiding the need to remove the hose from the discharge elbow (key 16).
- Loosen hose clips and disconnect the hose ends from both seacock hose tails. Pump the handle (key 36) to drain the toilet pump and ensure that all water is drained from the toilet system.

CAUTION: The use of anti-freeze is NOT RECOMMENDED, as it is mpossible to ensure that it penetrates the complete toilet system. If, for any reason, anti-freeze is used it MUST be glycol based.

If you plan to overhaul the toilet in the spring, this is a good time to disassemble it and take the components ashore to make the overhaul easier.

HAZARD RISK - Seacocks opened by mistake

If you leave the toilet disassembled and, if the seacocks are opened when the craft is afloat, water will flood in and may cause the craft to sink, which may result in loss of life.

Therefore, you MUST attach a warning notice to the seacocks and, if possible, wire the seacocks shut.

ATTACH WARNING NOTICE!

If you are not disassembling the toilet:

- Reconnect all hose ends and secure them with their hose clips.
- Replace the base drain plug securely.
- Replace the joker valve in the discharge elbow.
- Reconnect the discharge elbow and hose to the cylinder using the discharge flange, whilst relieving any leverage from the discharge hose. If you do not, the joint may not seal.
- Fasten down the seat, lid and pump handle to prevent use and attach a warning notice.

4. SERVICING - OVERHAUL

REMOVE THE PUMP ASSEMBLY AS FOLLOWS

- Loosen hose clips; disconnect the inlet hose and the flushing water hose (key 13) from the top of the pump.
- Remove the 2 screws (key 31) that secure the discharge flange (key 14) that holds the discharge elbow (key 16) and hose to the pump cylinder (key 18).

- Do NOT remove the hose from the discharge elbow.
- Remove the 4 screws (key 17) that secure the pump cylinder to the base.
- Lift off the pump assembly and pick up the base valve gasket (key 6) and the joker valve (key 14).

DISMANTLE THE PUMP ASSEMBLY AS FOLLOWS

- Remove the 6 screws (key 30) that secure the valve cover (key 31).
- Open (⏎) the Flush Control (key 24) before lifting off the valve cover assembly and picking up the top valve gasket (key 21), the valve seat (key 19) and the valve spring (key 27).
- Remove the handle and the seal assembly by following the SERVICING INSTRUCTIONS for SEAL

REPLACEMENT.

- Withdraw the piston assembly (key 28,29) and prise off the piston O-ring (key 29).
- Do NOT remove the bowl from the base
- Clean and disinfect all parts - refer to OPERATING INSTRUCTIONS for CLEANING. Remove scale from the cylinder bore.
- Inspect the top and bottom valve gaskets (key 21) and the joker valve, and renew them if they are damaged, stiff or covered with scale. Automatically renew the seal assembly and the piston O-ring. Use the other parts in the kit as necessary.

REASSEMBLE THE PUMP AS FOLLOWS

- Push on the new O-ring (key 29) and lubricate with petroleum jelly (vaseline).
- Following the SERVICING INSTRUCTIONS for SEAL REPLACEMENT fit the new seal assembly (key 32,33,34), the piston assembly (key 28,29) and the handle (key 36).
- Lubricate pump cylinder bore with petroleum jelly (Vaseline).
- Locate the valve seat (key 19) on top of the cylinder, locate the top valve gasket (key 21) on its pegs on top of the cylinder, locate the valve spring (key 35) on its peg in the valve cover, and Open () the Flush Control (key23) before refitting the valve cover (key 27).
- Locate the joker valve (key 15) in the discharge elbow(key 16).
- Secure the discharge elbow and hose to the cylinder, using the discharge flange (key 14), BEFORE you refit the pump assembly to the base (key 7), so that the joint is not under leverage from the discharge hose. If you do not, the joint may not seal.
- Locate the bottom valve gasket (key 16) on its pegs on the base.
- Secure the pump assembly to the base whilst relieving any leverage from the discharge hose. If you do not, the joint may not seal.
- Examine all hoses throughout their length for chafe, kinks and splits under hose clips. Check all hose clips for corrosion and replace worn or damaged parts.
- Reconnect all loose hose ends and secure them with their hose clips.
- Ensure that the base drain plug (key 9,10) is securely in place.

CAUTION: Do NOT lubricate top or bottom valve gaskets. Do NOT apply sealing compounds to any gaskets or hose connections.

5. SERVICING - TESTING

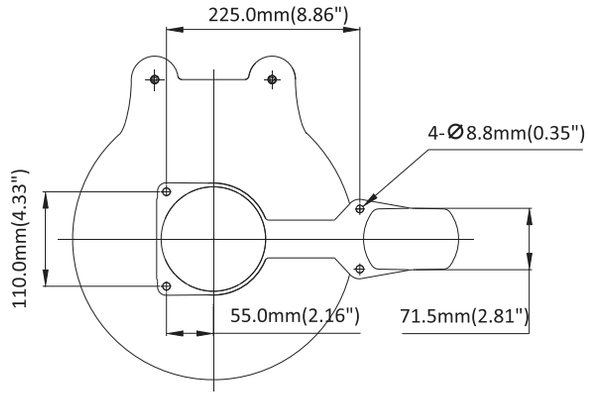
REFER to the OPERATING INSTRUCTIONS and follow the procedure for "2. Normal use".

- If the flushing pump is hard to prime, half-fill the bowl with fresh water.

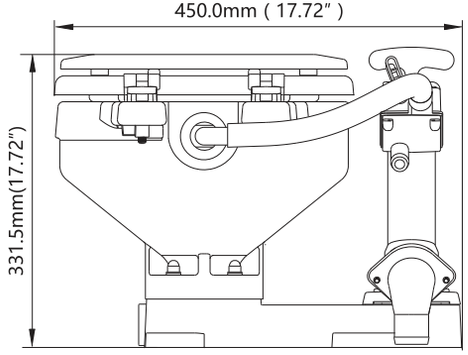
ON COMPLETION OF SERVICING — SHUT ( ) THE FLUSH CONTROL
CLOSE BOTH SEACOCKS.

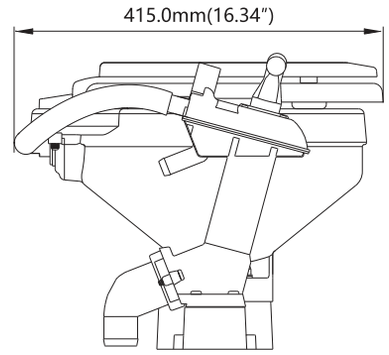
COMPACT (SFMTM-01)

DIMENSIONAL DRAWING

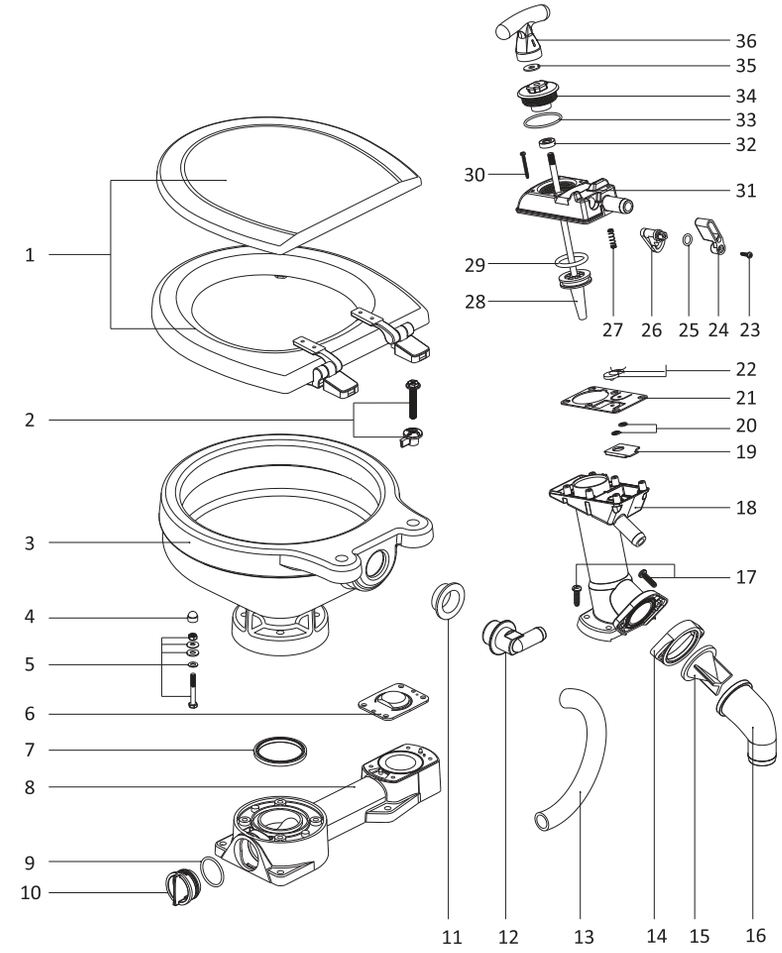


X-X SECTION VIEW
(display base mounting hole)





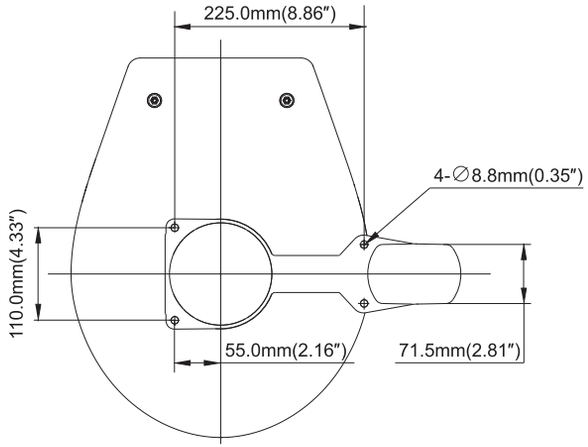
EXPLODED VIEW



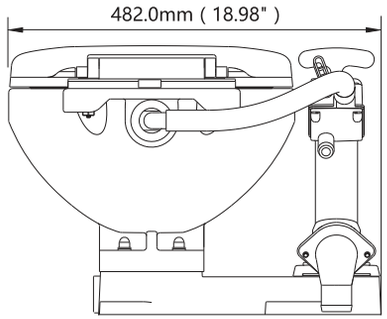
1	Seat, lid & hinge set	13	Hose	25	O-ring (flush lever)
2	Ceramic bowl	14	Discharge flange	26	Cam
3	Hinge set	15	Joker valve	27	spring
4	Cap	16	Discharge elbow	28	Pump piston
5	Bolt assembly	17	Self-tapping screws	29	Piston seal
6	Base valve gasket	18	Pump cylinder	30	Screw (valve cover)
7	Toilet seal	19	Top valve seat	31	Pump cover
8	O-ring (plug)	20	Valve block fastening washer	32	Seals
9	Plug seal	21	Top valve gasket	33	Screw cap seal
10	Base plug	22	Copper valve block	34	Screw cap
11	Intake seal	23	Screw(flush lever)	35	Buffer
12	Intake elbow	24	Flush control lever	36	Handle

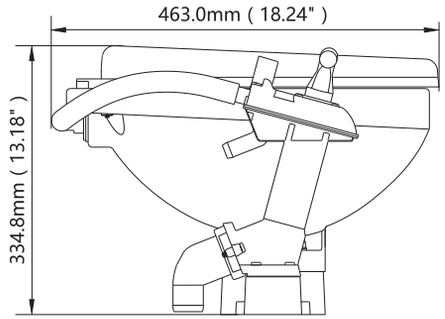
REGULAR (SFMTM-01-R)

DIMENSIONAL DRAWING

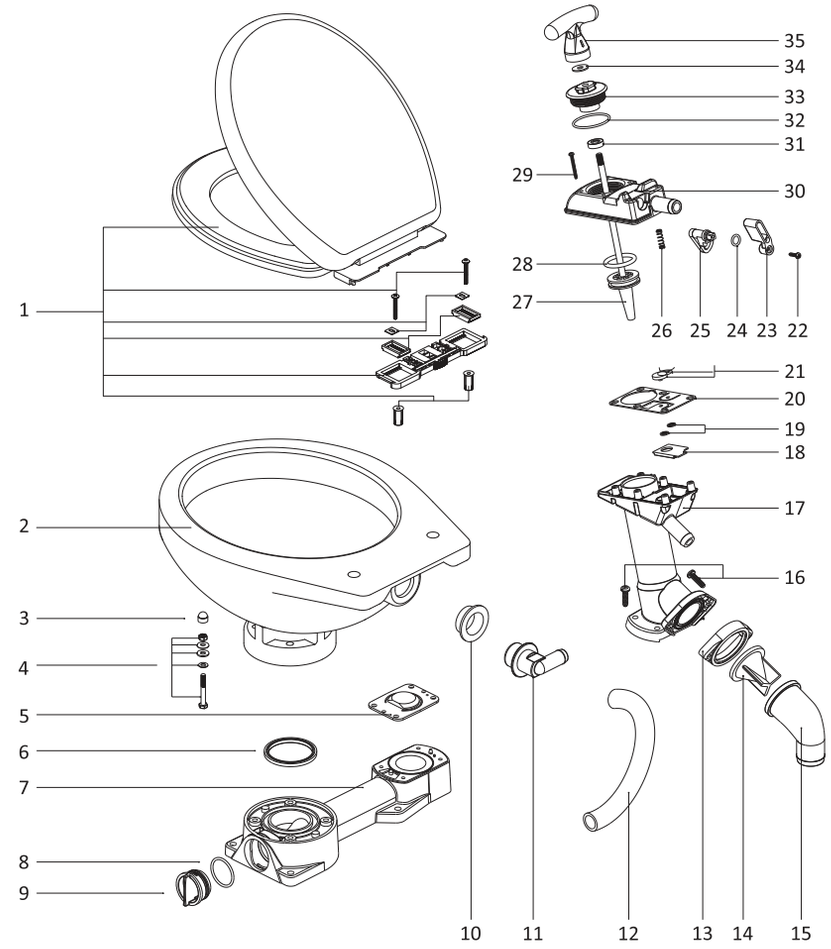


X-X SECTION VIEW
(display base mounting hole)





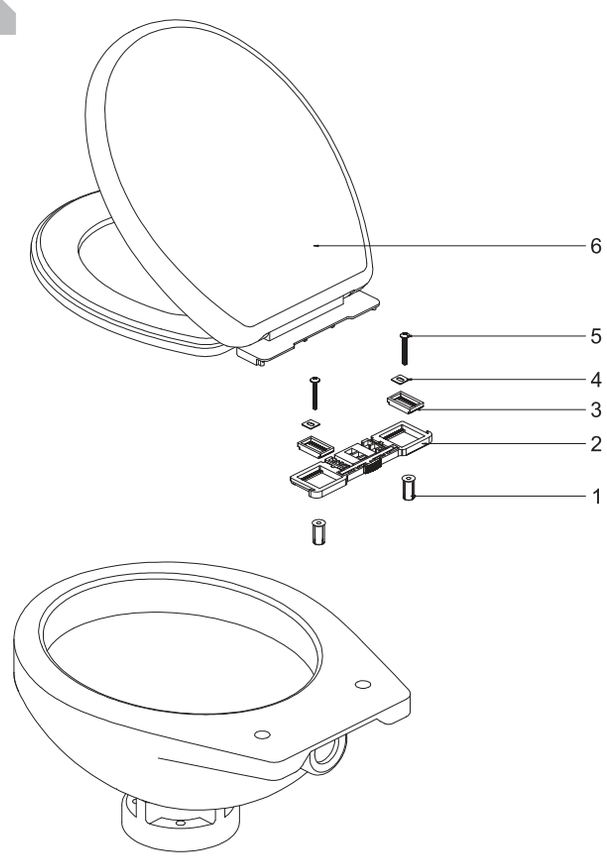
EXPLODED VIEW



1	Seat, lid & hinge set	13	Discharge flange	25	Cam
2	Ceramic bowl	14	Joker valve	26	spring
3	Cap	15	Discharge elbow	27	Pump piston
4	Bolt assembly	16	Self-tapping screws	28	Piston seal
5	Base valve gasket	17	Pump cylinder	29	Screw (valve cover)
6	Toilet seal	18	Top valve seat	30	Pump cover
7	O-ring (plug)	19	Valve block fastening washer	31	Seals
8	Plug seal	20	Top valve gasket	32	Screw cap seal
9	Base plug	21	Copper valve block	33	Screw cap
10	Intake seal	22	Screw(flush lever)	34	Buffer
11	Intake elbow	23	Flush control lever	35	Handle
12	Hose	24	O-ring (flush lever)	36	

REGULAR TOILET LID INSTALLATION

PART LIST

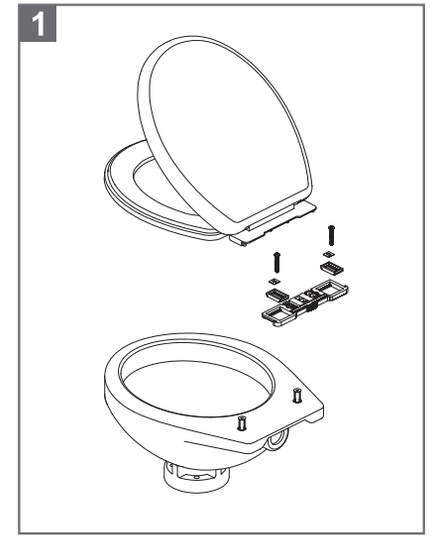


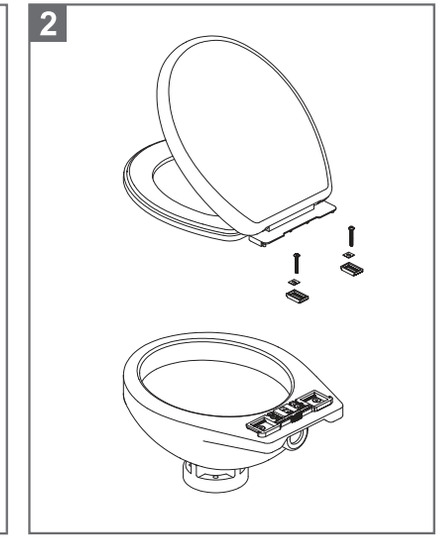
No.	Part Name	Quantity
1	Tension Nut	2
2	Base	1
3	Install Base	2
4	Plate	2
5	Bolt	2
6	Toilet Lid Assembly	1

INSTALLATION PROCEDURE

1. Place the tightening nut 1 in the mounting hole of the ceramic basin.

2. Place the base 2 above the mounting hole of the ceramic basin.





3. Install the mounting base 3 and the gasket 4 into the mounting groove of the base 2, lock the bolt 5 and the tension nut 1 to fix the base 2 on the ceramic basin.

4. Push the cover plate group 6 into the installation base 2 in the direction of the arrow, push the latch 2-1 on the base 2 to fix the cover plate on the ceramic base 2.

