

Installation Instructions
RV plumbing applications

Hep_vO Sanitary Waste Valve



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Installation Instructions

Installation on Recreational Vehicles

The purpose of this document is to provide instructions for the installation and use of the Hep_vO Sanitary Waste Valve on Recreational Vehicles.

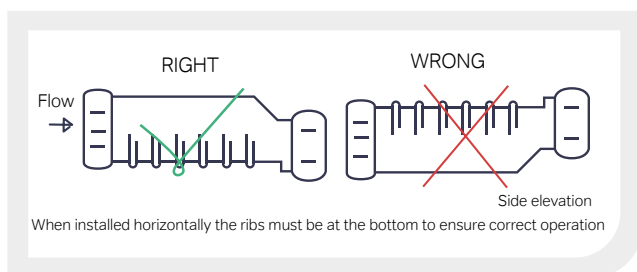
1. General

- Hep_vO is used instead of a P-Trap to protect the living space from foul odors from the grey water tank, black water tank or campground sewer system
- Each Hep_vO is approved to protect one sanitary fixture, which can be a Lavatory, Shower, Bathtub, Single or Double sink, Washing Machine, Dishwasher or Bidet. A single Hep_vO may only be used to protect multiple fixtures under strictly defined conditions - see Section 5
- Hep_vO eliminates the need to have the fixture it is installed on individually vented (through the roof or anti-siphon venting)

Note: all other system and tank venting requirements still apply.

2. Installation (Orientation/Location)

- Hep_vO can be installed vertically or 'horizontally', or any angle in-between. When installing 'horizontally' a minimum allowable slope of 1/8" (3.175mm) per foot (30.48cm) must be maintained to ensure good drainage. This can be achieved by using the Hep_vO Angled Adapter ref CV11/U
- When installed at any angle other than vertically, the Hep_vO must have 'ribs down' to ensure correct drainage



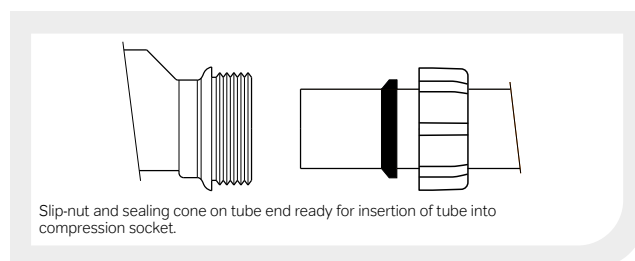
- Hep_vO valves must be installed in the correct direction of flow which is clearly marked on the body of the product
- Hep_vO must be installed either immediately at the exit of each Fixture, or in-line up to a maximum distance of 6ft from the exit of the Fixture. Note that when used to protect a single fixture Hep_vO must always be installed upstream of any tees or branch connections to other waste pipes
- If a Cleanout Fitting would normally be installed within 6ft of the Fixture Outlet then Hep_vO may be installed instead at that same location to perform the dual function of a Trap and a Cleanout point, provided all other Hep_vO installation instructions contained in this document are met
- Hep_vO must be installed in an accessible location

3. Installation Method

- At the inlet side Hep_vO can be installed using a 1 1/2" Threaded Connection or via a slip joint connection onto Tubular pipe using In-Line Adapters CV7A/U (1 1/4") or CV7B/U (1 1/2")
- At the outlet side Hep_vO can be installed using a 1 1/2" Threaded Connection or via a slip joint connection onto 1 1/2" Tubular pipe or via a direct glued connection to ABS pipe
- Do not use jointing compounds or chemical sealants on any Hep_vO connections

A. Connections to Tubular Pipe

1. Cut the tube to length, allowing for the full compression socket depth, (preferably using an appropriate tube cutter).
2. If using plastic tube remove any loose material from the inside and the outside of the end of the tube. If using metallic tube remove any burrs or sharp edges from the inside or the outside of the tube and file if necessary. Mark the socket depth on the tube, and check that the tube section to be joined is free of any damage which may affect the joint seal.
3. Unscrew the Hep_vO slip-nut from the outlet/inlet adaptor and slide the slip-nut, slip washer and rubber seal onto the tube.
4. Insert the tube end fully into the socket.
5. Slide the rubber seal, slip washer and screw slip-nut against the face of the socket, and tighten the slip-nut by hand, (check that the slip-nut is square to the body and does not 'cross-thread', hand tight should be adequate to form a proper seal.



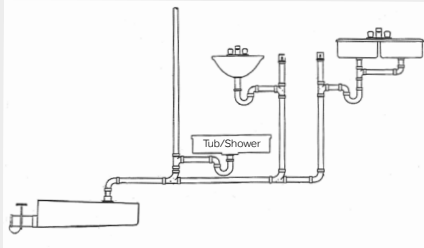
B. Threaded Connections

Threaded connections can be made to the inlet or outlet of the Hep_vO valve. At the outlet (for Valve type BV1B/U) it is first necessary to remove the cap and rubber seal. If making connections to threaded components that do not have an integral seal (for example outlet connections to third party DWV adapters) PTFE/TEFLON tape should be applied to the thread prior to assembly.

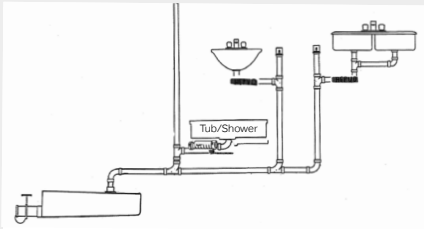


1. Illustrations / Examples

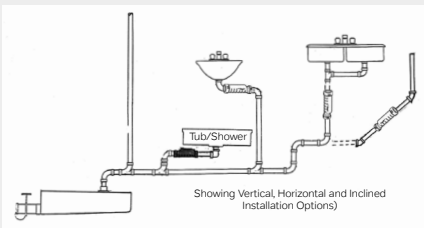
A. Typical RV Plumbing – Previous Practice



B. Potential Aftermarket upgrade with Hep_vO



C. Typical New RV Plumbing Design using Hep_vO



5. Multiple Fixture Installations

A single Hep_vO can be used to protect two fixtures but only under the following strict conditions:

- ⦿ No more than two fixtures should be connected to a single Hep_vO valve which must remain accessible for service if required
- ⦿ Installations for a Washing Machine, Dishwasher or Double Sink must each be protected by their own individual Hep_vO – these must NOT be included in any two fixture installation
- ⦿ The maximum distance from any fixture outlet to the inlet of the Hep_vO valve should be no more than 6ft
- ⦿ The Hep_vO should be installed as far upstream as possible ie as close as possible to the Y or T piece where the waste lines from the two fixtures converge. Hep_vO must always be installed with its outlet located more than 12" from the holding tank
- ⦿ It is important to ensure that the holding tank(s) still have their required vent(s). All such vent connections must be located downstream of the Hep_vO valve

6. Maintenance

No routine or seasonal maintenance is required. However, should you blow-out your drainage lines do not exceed 80-100 psi.

- ⦿ Hep_vO is resistant to standard caustic-based drain cleaners. It is also resistant to acid-based cleaners with concentrations up to 10%. When flushing with higher concentrations of acid based cleaner, the valve must be removed before the operation
- ⦿ If mechanical drain cleaning devices are to be used it is necessary to first remove Hep_vO from the Waste System. This provides a useful access point for servicing downstream pipework
- ⦿ It is good practice to rinse the Hep_vO valve with clean water after any maintenance procedure

6. Parts List

A. New Build

Valves

BV1B/U = Hep_vO Waste Valve – 1½" Tubular Slip Joint Outlet

BV1B/U1 = Hep_vO Waste Valve – 1½" Threaded Outlet

BV1B/US = Hep_vO Waste Valve, – 1½" Glued ABS Outlet

Adapters

CV11/U* = 87.5° Angled Adapter for Horizontal Installation

CV7A/U* = In-Line Adapter for 1¼" Slip Joint Connection at Inlet

CV7B/U* = In-Line Adapter for 1½" Slip Joint Connection at Inlet

SBV/U* = Female Adapter for 1½" glued ABS connection at outlet

* Installation Adapters CV11/U, CV7A/U, CV7B/U and SBV/U are solely designed to be used to ensure correct installation of the Hep_vO Sanitary Waste Valve and must not be used for any other purpose

B. Aftermarket

BV1B/UA = 1¼" Kit comprising BV1B/U, CV11/U and CV7A/U

BV1B/UB = 1½" Kit comprising BV1B/U, CV11/U and CV7B/U

SBV/US = Female Adapter for 1½" glued ABS connection at outlet

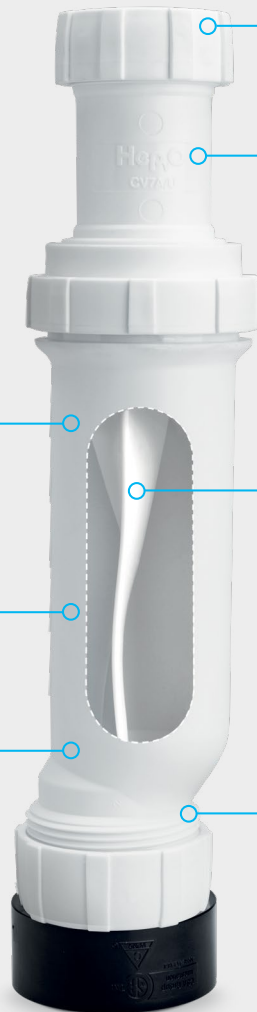
8. Technical Support

Toll free Helpline 800-257-5566 or
e-mail hepvO@sunbeltmarketing.com

BV1B/UB-1 1/2"

Hep_vO

Sanitary Waste Valve



1 1/4" or 1 1/2" In Line or Angled Adaptor with slip joint connection.

1 1/2" Threaded Connection to Fixture or Adaptors Supplied With Kit.

Compact design means Hep_vO is ideal for installation in confined areas.

Silent operation – no gurgling.

Eliminates need for water seal. Therefore no evaporation or siphonage of trap.

Prevents the escape of foul sewer air from waste discharge systems.

Actively maintains a pressure equilibrium in soil and waste installations.

Prevents waste water back-up into plumbing fixture.

Various outlet options are available: Universal Slip Joint for 1 1/2" Tubular Pipe; or 1 1/2" Male Thread; or Socket for glued connection to ABS pipe.

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US Patent No. 7509978

UK Patent Nos. 2320310 - 2352496 - 2352497

UK Design Reg. No. 2061474

European Patent No. 0941433



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