

## Hep<sub>v</sub>O

## System Data Sheet



### System description

Hep<sub>v</sub>O<sup>®</sup> is a unique self-sealing waste valve that prevents the escape of foul sewer air from waste discharge systems, and actively maintains the pressure equilibrium in soil and waste installations.

As a dry sealing valve, Hep<sub>v</sub>O utilises a purpose designed membrane to create an airtight seal between the living space and the drainage system. The self-sealing valve opens under the water pressure of an appliance emptying, and closed to form a tight seal after the appliance has discharged under normal atmospheric

conditions. It performs the same function as a traditional water seal trap but unlike a trap it continues to provide a reliable seal under all conditions and is not affected by evaporation, syphonage or freezing conditions.

### System benefits

- **Maintains seal under all conditions**  
Reliable permanent protection against foul odours.
- **Resistance to back pressure**  
Provides protection against sewer gas back pressure up to 10 times the level possible with a trap system.
- **Vertical or horizontal installation**

Can achieve significant and valuable space-saving opportunities.

- **No Air Admittance Valves required**  
The venting of the waste system for negative pressure conditions is no longer necessary.
- **Higher flow rate of discharge water**  
Faster drainage of fixtures.
- **Not affected by syphonage**  
Hep<sub>v</sub>O retains seal performance and allows the placement of a greater number of appliances together on fewer discharge pipes.
- **Low Noise**  
Hep<sub>v</sub>O operates quietly and is not subject to "gurgling" noises.
- **Not influenced by solid or greasy waste materials**  
Can be used in all residential and commercial applications.

### Documentation

The following documentation on the Hep<sub>v</sub>O system is available:

- Hep<sub>v</sub>O Product and Installation Guide (2008)

HYGIENIC SELF SEALING WASTE VALVES



### Applications

Hep<sub>V</sub>O can be used more effectively than a conventional trap in domestic and commercial situations. This includes marine and mobile home installations, where space is at a premium and where fixtures remain unused for a long period of time.

A self-sealing waste valve is a suitable alternative for traditional waste traps on any waste application and on all types of sanitary systems such as primary and secondary ventilated systems (single and stub stacks). In addition, Hep<sub>V</sub>O can:

- Acts as an air admittance valve, allowing air into the drainage system when negative pressure occurs.
- Allow an unvented hot water storage system to connect a tundish outlet pipe to a drainage stack. This is typical of an intermittent flow application where a trap could not usually be used.
- Be used as a problem solver in existing installations where traps are failing and causing smell or noise problems.

### Range

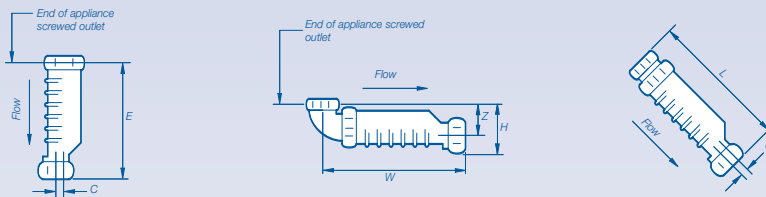
The Hep<sub>V</sub>O valve and adaptors are available in sizes 32mm (1 ¼") and 40mm (1 ½") in all the systems DN Metric, UK Metric and US Tubular. A 87.5° knuckle adaptor should be used with the Hep<sub>V</sub>O valve for horizontal applications, and a running adaptor when installed the Hep<sub>V</sub>O in a pipe run. There is also a Hep<sub>V</sub>O tundish adaptor kit comprising a 32mm Hep<sub>V</sub>O valve and tundish adaptor

All items are manufactured from white polypropylene (PP) and are covered by the British BRE certificate no 042/97.

Dimensional data for the Hep<sub>V</sub>O is shown in the figures below.

#### Hep<sub>V</sub>O dimensional data

SIZE	C	E	L	W	Z	H
32mm	8	171	208	211	40	70
40mm	5	171	208	213	40	73



For information on System Design and Installation we refer to the Hep<sub>V</sub>O Installation Manual.

### Contact details

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### Quality requirements

Hep<sub>V</sub>O is manufactured under a quality management system which is approved to ISO 9001 and ISO 14001 (Environmental Management Systems). The correct use of Hep<sub>V</sub>O will ensure that installations comply with the requirements of EN 12056 (Part 2), EN 274 and EN 15749-1 2004 (Ships and Marine Technology). Approvals include BRE 042/97 (UK), ATS 5200 (Australia), CSA TIL 55 (Canada, for Recreational Vehicles and ASME ANSI A112.18.8 (USA).



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