

HEP<sub>v</sub>O<sup>®</sup> - SELF SEALING WATERLESS TRAP  
Product manual

# The hygienic alternative to a p-trap



# Hep<sub>v</sub>O - Self-sealing waterless trap

The hygienic alternative to a p-trap



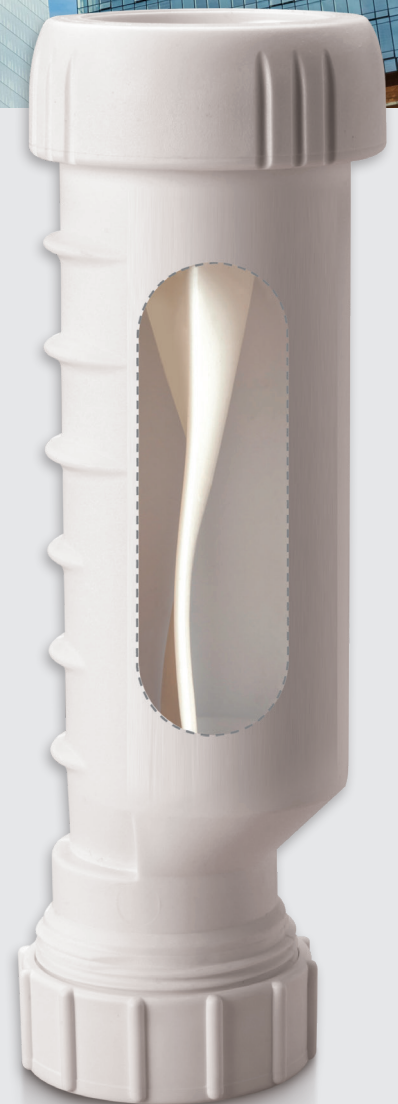
## Hep<sub>v</sub>O - The waterless trap that won't leave you high and dry. The world's best selling waterless trap.

### The perfect drainage solution for high-rise properties

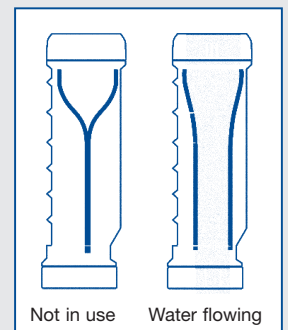
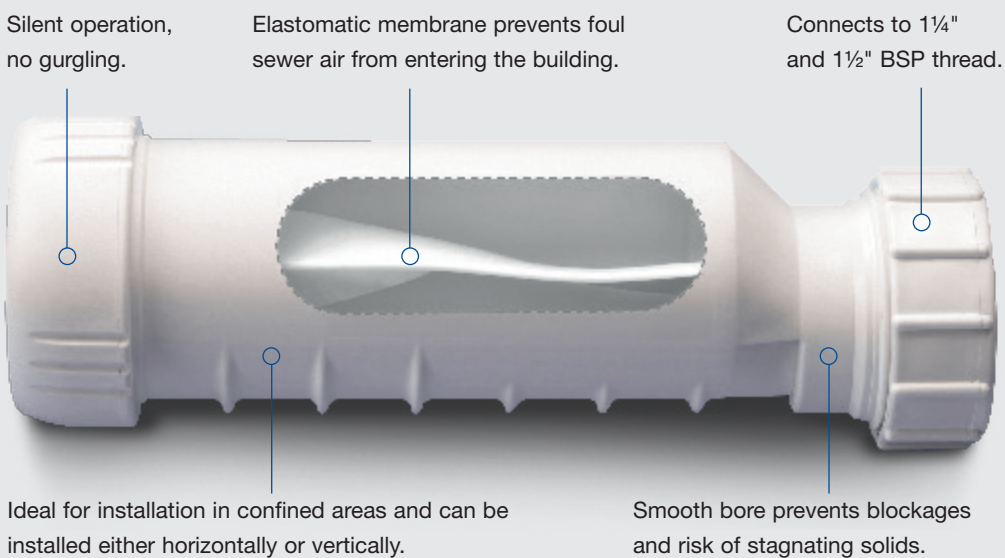
Hep<sub>v</sub>O is a unique self-sealing waste valve that prevents the escape of foul sewer air from waste discharge systems, and actively maintains the pressure equilibrium in soil and waste installations, which makes it perfect for high-rise buildings. As a dry sealing valve, Hep<sub>v</sub>O utilises 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 closes to form a tight seal after the appliance has discharged under normal atmospheric conditions.

For over 25 years, Hep<sub>v</sub>O has successfully offered considerable benefits for the system designer. In addition, the Hep<sub>v</sub>O hygienic self-sealing waste valve offers a number of benefits for professional installers and end users.

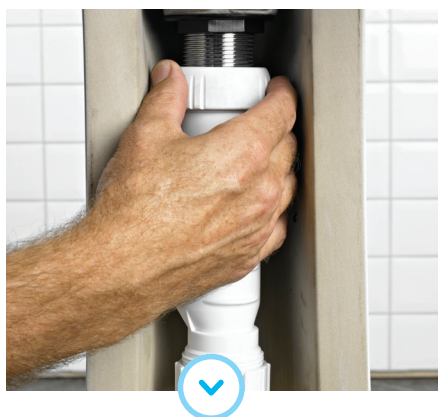
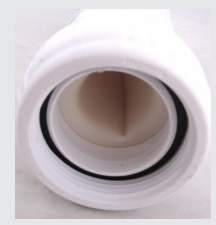
Hep<sub>v</sub>O actively eliminates negative pressure within the waste system by opening and allowing in fresh air until a state of equilibrium with atmosphere is reached. It subsequently closes to reseal the waste system and prevent foul air release. This means that the venting of the waste system in high-rise buildings, or the inclusion of an air admittance valve in the waste system, is no longer necessary.



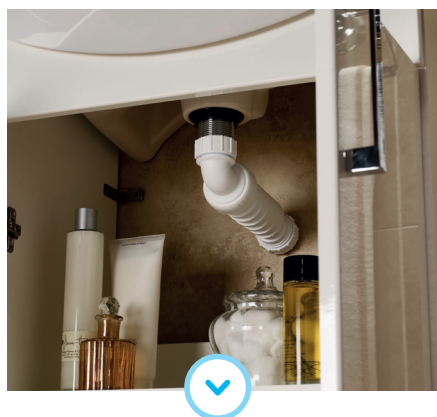
- ⦿ The Hep<sub>v</sub>O valve results in enhanced plumbing design and system efficiency
- ⦿ Unlike water seal traps, Hep<sub>v</sub>O is not affected by siphonage and will therefore not allow the escape of foul air into the living space from drain or sewer
- ⦿ Hep<sub>v</sub>O allows discharge water to pass easily through, regardless of the volume
- ⦿ Hep<sub>v</sub>O allows the placement of a greater number of appliances together on fewer discharge pipes without compromising the performance of the sanitary discharge system
- ⦿ Hep<sub>v</sub>O operates silently and is not subject to “gurgling” noises typically associated with siphonage and indicative of a breach in the water seal barrier
- ⦿ Independent tests confirm that Hep<sub>v</sub>O performs silently when subjected to a range of abnormal pressures



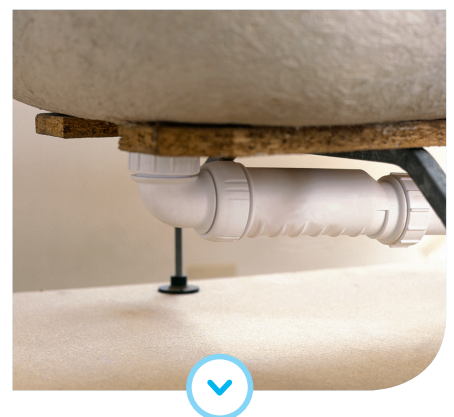
ATS 5200-047:2005



**Hep<sub>v</sub>O can be installed either vertically or horizontally.**



**Hep<sub>v</sub>O is Ideal for installation in confined areas.**



**Hep<sub>v</sub>O can be installed horizontally by using the 90° adaptor.**

# Hep<sub>v</sub>O - Self-sealing waterless trap

## The hygienic alternative to a p-trap

**Hep<sub>v</sub>O provides permanent protection from foul, unhealthy sewer gas which can carry viral pathogens into the living space.**

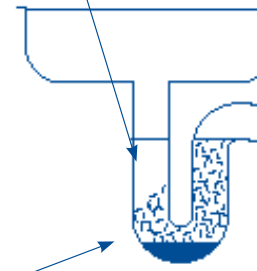
**The primary purpose of a trap is to protect public health by blocking noxious sewer gas from the living space of buildings. When a p-trap loses its water seal that protection is also lost. At best this leads to unpleasant odour and increased maintenance. At worst it can be a threat to human health.**



The Hep<sub>v</sub>O valve promotes hygiene, particular where an appliance is infrequently used. Hep<sub>v</sub>O differs from conventional water traps, which could dry out or hold stagnant water, causing the emission of foul smells and enhance bacterial growth. Hep<sub>v</sub>O has been extensively tested and is resistant to common chemicals such as cleaners and detergents containing sodium hydroxide and solvents.

Water held in conventional traps can become stagnant (Residues in the water trap can be fermented and produce odours and unhealthy air)

Suspended matter in water eg. soap scum/grease/saliva/etc.



Solid matter eg. decomposing food particles/hair strands/skin flakes/nail clippings etc.

### For branch pipe ventilation

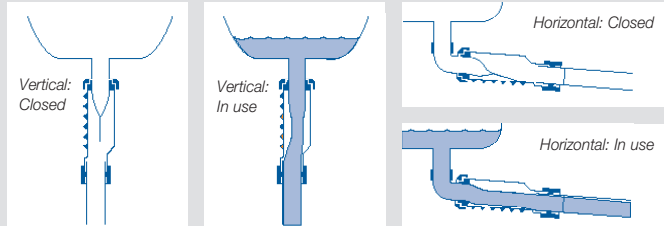
Hep<sub>v</sub>O can act as an air admittance valve, allowing air into the drainage system when negative pressure occurs. Once equilibrium is reached the valve closes. Using the valve as an air admittance tool provides cost savings, as it eliminates the need for a traditional open vent pipe or an air admittance valve to be positioned on the stack in certain circumstances; simplifies system design, providing space and time saving benefits.

The use of Hep<sub>v</sub>O, as it provides ventilation, can give more flexibility in pipe sizing, allowing the pipe run to be extended to 3m without needing to increase pipe size from 32mm.

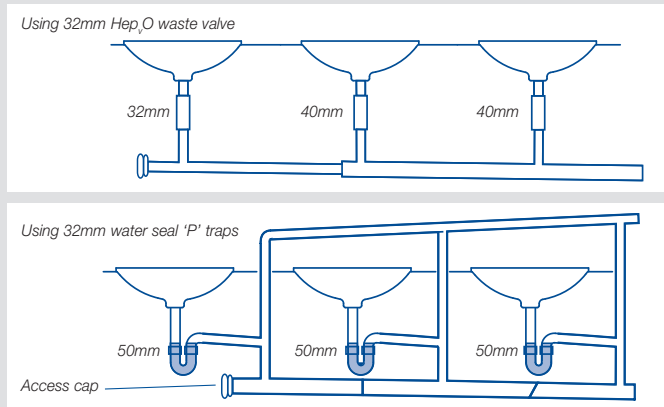
For non-domestic situations, the use of multiple Hep<sub>v</sub>O valves allows for simpler systems with less pipework & straight runs.

On completion of the installation, there is no need to perform self-siphonage and induced siphonage tests for branch discharge pipes from waste appliances.

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



### Schematic view for three basins



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**Wavin Limited** | Registered Office | Edlington Lane | Doncaster | DN12 1BY  
Tel. 0844 856 5152 | [www.wavin.co.uk](http://www.wavin.co.uk) | [info@wavin.co.uk](mailto:info@wavin.co.uk)

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