

FOR MORE INFORMATION ABOUT FRESHFLOW CALL

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# LEAP

## FRESHFLOW



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WATERLESS WASTEWATER SYSTEM

Welcome to LEAP, a new name dedicated to providing the most advanced water systems in Australasia.

LEAP aims to improve customers' lives with innovative, sustainable, environmentally responsible water systems that deliver superior performance, without costing the earth.

We take responsibility for the environment by sourcing and developing products that are more energy and water efficient – putting less strain on natural resources.

We are proud of our ability to actively design, develop and engineer new water systems to tackle and solve old problems in new ways – we call it 'challenging the status flow'.

# FRESHFLOW:

HYGIENIC, ODOUR-FREE  
REMOVAL OF WASTEWATER



**FRESHFLOW is a new space-saving design to discharge wastewater hygienically without any odour and contamination from the wastewater system. FRESHFLOW combines the advanced Hepv0 self-sealing waterless waste valve with easy-to-install flexible HepFlex Waste piping. This innovative system replaces space-hungry S or U traps with a hygienic valve that provides an effective and reliable barrier against sewer gases escaping into a building.**

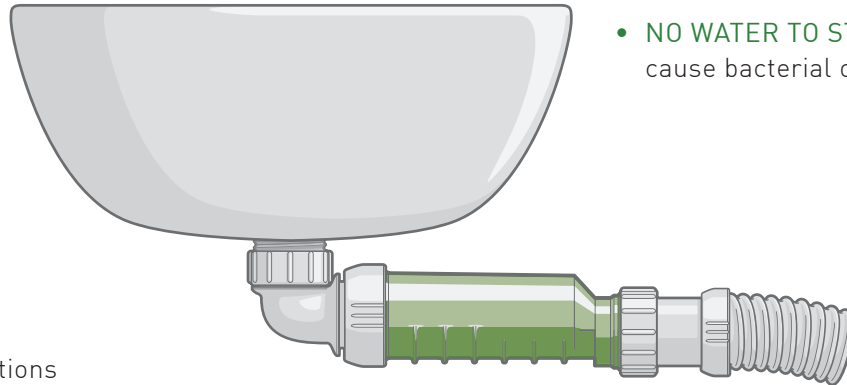
The advanced Hepv0 valve is water free, doing away with the conventional standing reservoir of water that can stagnate and develop unhygienic bacterial or fungal growth which can escape into your home. Its compact size and in-line design also allows more flexibility when it comes to positioning fittings.

The unique Hepv0 valve is complemented by a flexible, smooth-bore piping system that can virtually 'go anywhere' easily and quickly. It's continuous, needing fewer fittings and connections.

Together, the FRESHFLOW system offers a smarter alternative to traditional waste systems, providing modern, hygienic and flexible solutions for any situation.

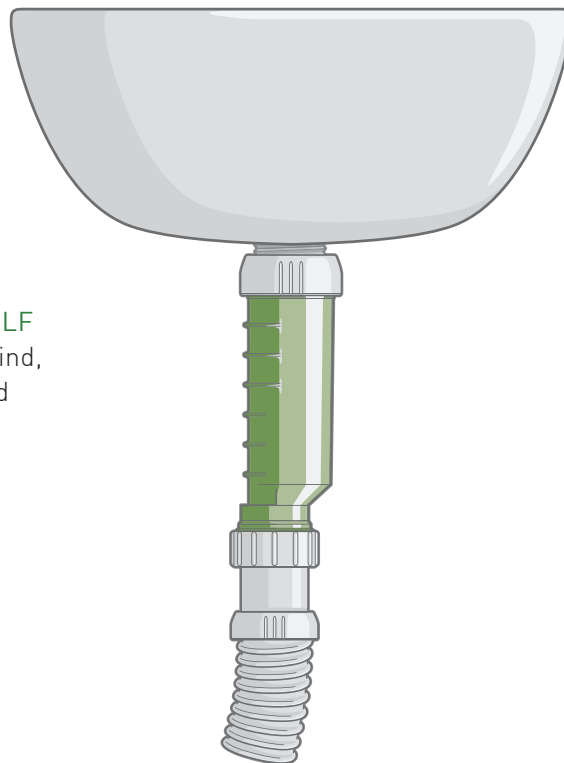
# FRESHFLOW AT A GLANCE

- **ELASTOMERIC MEMBRANE** forms an odour-proof seal to keep rooms smelling fresh



- **NO WATER TO STAGNATE** and cause bacterial or fungal growth

- **QUICK AND EASY** connections even in difficult circumstances



- **IT'S EFFECTIVE AGAINST SELF SIPHONAGE** compression, wind, momentum, leakage, induced siphonage, evaporation, foaming, capillary action and movement that can affect traditional systems.

- **STRAIGHT-LINE DESIGN** gives more space, more options in placing fittings – even in cramped installs

- **FEWER FITTINGS AND CONNECTIONS** saves time consuming solvent-welding

# WHY FRESHFLOW IS BETTER

## PREVENTS ODOURS ESCAPING

The elastomeric one-way membrane of FRESHFLOW's HepvO valve opens to allow wastewater through, then closes, forming a tight seal to stop odours re-entering the room.

## HYGIENIC

Water held in traditional traps can stagnate resulting in the build-up of waste material – particularly under less frequently used fixtures. This in turn can cause bacterial or fungal growth that can escape back into your home. Because it's water free, FRESHFLOW's HepvO valve doesn't promote this build-up.

## RELIABLE, EFFECTIVE

The unique construction of FRESHFLOW's HepvO valve prevents sewer gases re-entering your home in situations where water seals are weak. It's effective against self-siphonage, compression, wind, momentum, leakage, induced siphonage, evaporation, foaming, capillary action and movement that can affect traditional systems.

## SAVES SPACE

Accommodating the bend of a traditional trap often requires cutting through shelves or floors. With FRESHFLOW's HepvO valve, piping can be installed in a straight line or at a neat 90° angle from the fixture's outlet.

## GREATER DESIGN FLEXIBILITY

Designers enjoy greater flexibility in designing a wastewater system using FRESHFLOW's HepvO valve because they don't have to work to safety margins required to avoid the possible loss of a water seal.

## TESTED AND APPROVED

The FRESHFLOW HepvO valve has been rigorously tested for most conditions that could be encountered when connected to typical fixtures. It carries the WaterMark Licence WMKT20062 and is manufactured to international standards.

## MORE EFFICIENT PIPING

FRESHFLOW's HepFlex Waste range provides a simpler, more efficient way of connecting fixtures and waste outlets. It can be bent in multiple angles, retaining precise alignment first time, every time. The long run reduces the number of fittings needed and the time required to solvent-weld them.

# TECHNICAL DETAILS

## HEPvO HYGENIC WASTE VALVE

### PRODUCTS

#### 32MM

BV1 WH	Waste Valve, 32mm
BV3 WH	Running Adaptor, 32mm
BV11 WH	Knuckle Bend Adaptor, 32mm

#### 40MM

CV1 WH	Waste Valve, 40mm
CV3 WH	Running Adaptor, 40mm
CV11 WH	Knuckle Bend Adaptor, 40mm

### APPLICATIONS

Can be used on the outlet of a fixture or appliance as an alternative to a standard trap, as per AS/NZS 3500 – dependant on site conditions and local authority requirements.

It provides a permanent seal when connected downstream to a tundish, accepting condensate lines from air conditioning or other intermittent discharge systems, and does not require a trap primer.

### MOUNTING OPTIONS

Can be installed at any angle from vertical to horizontal. Discharge pipes should have sufficient grade to convey the design flow but should be no flatter than 2.5% or 1 in 40.

### MATERIALS

Body: Polypropylene  
Sealing mechanism: Various  
Sealing rings: EPDM  
Washer: Nylon

### FLOW CAPACITY

Based on 50mm head of flat-based receptacle.

Horizontal: BV1: 40 l/m  
CV1: 50 l/m

Vertical: BV1: 60 l/m  
CV1: 70 l/m

### TEMPERATURE RANGES

Maximum operating temperature 75°C. Based on testing over 10,000 cycles.

### END CONNECTIONS

Universal threaded BS 32mm or 40mm.

Universal Compression Outlet 32mm or 40mm.

The inlet has a loose nut and seal ring to connect with the threaded outlets of fixtures. It may also be adapted to a pipe using a running adaptor BV3 HW or CV3 HW.

The outlet has a universal connection comprising seal ring, washer and compression nut.

### MAINTENANCE

Resistant to standard caustic-based drain cleaners. Drain-cleaning solutions containing high concentrations of sulphuric acid must not be used.

When rodding or flushing with a sulphuric acid solution, the valve must be removed before the operation.

## HEPFLEX WASTE PIPE

### PRODUCTS

#### 32MM

FBP3 WH	Smooth Bore Wastepipe, 32mm x 3mtr
FSBW6	Solvent Spigot Adaptor, 32mm

#### 40MM

FCP3 WH	Smooth Bore Wastepipe, 40mm x 3mtr
FSCW6	Solvent Spigot Adaptor, 40mm

Available with 32mm or 40mm white ABS spigot connectors FSBW6 or FSCW6.

Recommended for runs up to 1m.

Horizontal lengths greater than 200mm need supporting every 150mm.

Bends: can be at angles up to four times tighter than diameter.

**PLEASE NOTE:** This information is only a summary. Your plumber will need to contact a LEAP supplier for a copy of the Installation Manual which has other important information.



# TECHNICAL DETAILS

## HEPvO PRODUCT SELECTOR

HepvO can be installed vertically or horizontally, and is available in 32mm and 40mm diameters.

Hygienic Seal Sealing Waste Valve

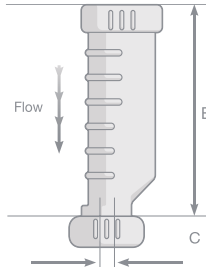
32mm = BV1 WH

40mm = CV1 WH



## DIMENSIONS

Fixed vertically or horizontally to fixture outlet.

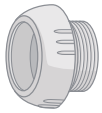


## HEPvO RUNNING ADAPTOR

Use with the HepvO waste valve when installing in a pipe run

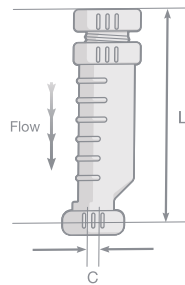
32mm = BV3 WH

40mm = CV3 WH



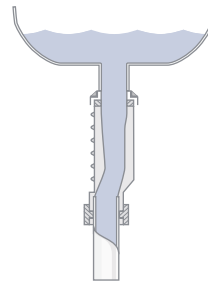
## DIMENSIONS

Fixed on a discharge using a running adaptor.

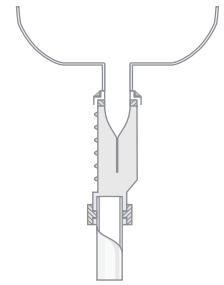


## OPERATION OF THE HEPvO

### VERTICAL OPEN



### VERTICAL CLOSED

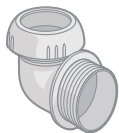


## HEPvO KNUCKLE BEND

Use with the HepvO valve for horizontal applications

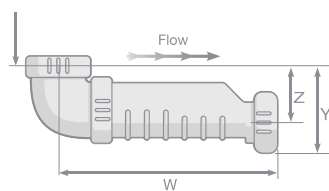
32mm = BV11 WH

40mm = CV11 WH



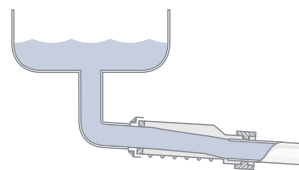
## DIMENSIONS

Fixed horizontally using knuckle bend.

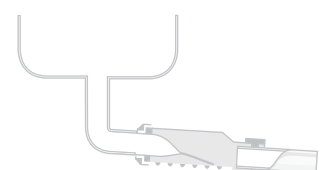


## OPERATION OF THE HEPvO

### HORIZONTAL OPEN



### HORIZONTAL CLOSED



## DIMENSIONS

SIZE	C	E	L	W	Z	Y
32mm	8mm	173mm	215mm	215mm	35mm	68mm
40mm	6mm	173mm	215mm	215mm	35mm	68mm

### NOTES:

1. These dimensions are taken from the face of the seal at the base of the female thread in the nut.
2. Dimensions are nominal and may vary slightly due to compression of rubber seals.
3. It is recommended that HepvO be accessible in all installations.