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# FRESH FLOW

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WASTEWATER SYSTEM



ADVANCED  
WATER  
SYSTEMS  
**LEAP**

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 totally new space-saving design to discharge wastewater hygienically without any odour and contamination from the wastewater system. **FRESHFLOW** combines the advanced Hep<sub>v</sub>O 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.

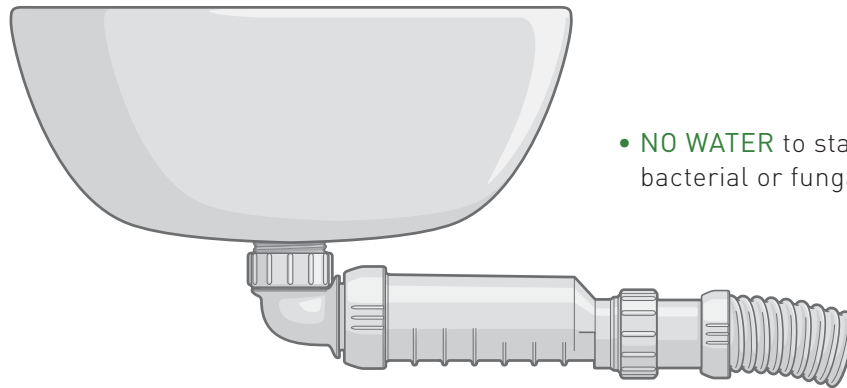
The advanced Hep<sub>v</sub>O valve is water free, doing away with the conventional standing reservoir of water that can stagnate and develop unhygienic bacterial or fungal growth which can escape into your home. Its compact size and in-line design also allows more flexibility when it comes to positioning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

The unique Hep<sub>v</sub>O 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.

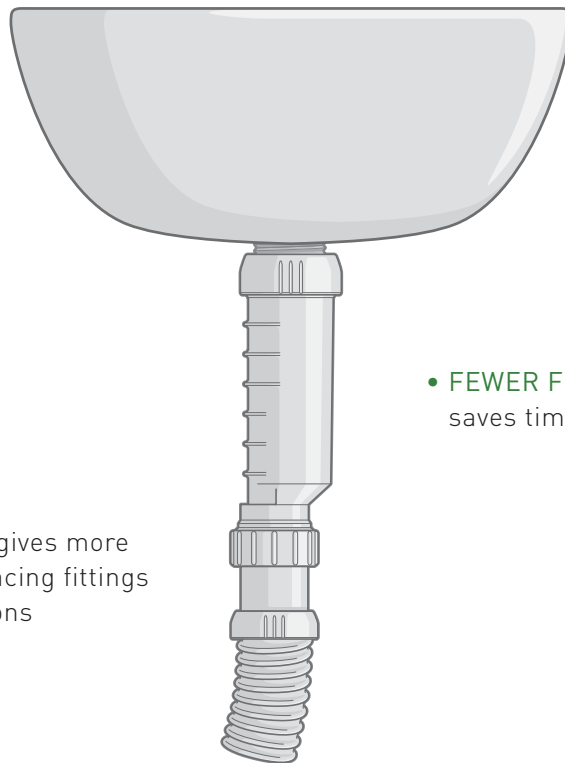
# FRESHFLOW AT A GLANCE

- **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 situations



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

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

# WHY FRESHFLOW IS BETTER

## PREVENTS ODOURS ESCAPING

The elastomeric one-way membrane of FRESHFLOW's Hep<sub>v</sub>O 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 Hep<sub>v</sub>O valve doesn't promote this build-up.

## RELIABLE, EFFECTIVE

The unique construction of FRESHFLOW's Hep<sub>v</sub>O 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.

## SAVES SPACE

Accommodating the bend of a traditional trap often requires cutting through shelves or floors. With FRESHFLOW's Hep<sub>v</sub>O 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 Hep<sub>v</sub>O 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 Hep<sub>v</sub>O 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

## HEP<sub>v</sub>O VALVE

### 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.

### 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 or CV3.

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

### MATERIALS

Body: Polypropylene

Sealing mechanism: Various

Sealing rings: EPDM

Washer: Nylon

### FLOW CAPACITY

Based on 50mm head of flat-based receptacle.

Horizontal: BV1A: 40 l/m  
CV1A: 50 l/m

Vertical: BV1A: 60 l/m  
CV1A: 70 l/m

### TEMPERATURE RANGES

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

### 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 PIPING

3m by 32mm or 40mm smooth bore white PVC flexible waste pipe.

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

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.**

# OTHER LEAP SYSTEMS



## SOLAR WATER HEATING SYSTEMS

SOLARGENIUS water heating systems offer homeowners a range of ways to harness clean, free solar energy for heating water. SOLARGENIUS options include a roof-top tank with solar collectors attached, flat-plate collectors or evacuated tubes linked to your water heating tank or an innovative heat pump that harnesses solar energy to heat your water. SOLARGENIUS systems are lightweight, easy-to-install solar water heaters that can save households between 40% and 75% on hot water bills.



## HOT WATER CONTROL SYSTEM

SAFETEMP is the reliable and convenient way to ensure water temperatures at your ablutionary fixtures, bath, shower and basin are safe. Its unique design keeps tap temperatures at a safe level, using a special cartridge that detects incoming water temperatures and adjusts the blend. The failsafe mechanism shuts off supply if there's no cold water. Its unique design and construction means it's guaranteed for 5 years – currently the only safety valve guaranteed for so long.



## HOME FIRE SPRINKLER SYSTEM

BLAZESTOP is an affordable sprinkler system linked to a domestic water supply, putting the reassurance of sprinkler protection within reach of private homeowners. Designed especially for the home environment, BLAZESTOP uses sprinkler heads concealed in the ceiling. Flexible, concealed piping makes retrofitting into homes easy and cost-effective. Made from durable polybutylene, it isn't affected by scaling, corrosion, or microbiological growth and doesn't transmit noise.



## PRESSURISED SHOWER SYSTEMS

POWERSHOWER pumps deliver the power for a great shower in any situation. Quality design and construction ensures quiet, trouble-free operation. There are options for everything from augmenting gravity feeds in simple holiday set-ups to providing luxurious multi-spray fittings. The POWERSHOWER QT pumps are especially designed to handle hot water at higher temperatures without spasmodic pressure losses.



## MANIFOLD PLUMBING SYSTEM

MANIFLOW saves energy and conserves water by having a dedicated pipeline from a manifold near the hot water cylinder to each tap or fixture in the house. Hot water goes straight where it's needed without sitting round cooling in the big 'feeder' pipes needed to serve multiple outlets. Less energy and water is wasted, as hot water arrives faster at the tap. Flexible and non-metallic pipes result in a quiet and efficient plumbing system that doesn't suffer corrosion, scaling or microbial build-up.



## HYDRONIC HEATING SYSTEM

TERRATHERM is a highly effective and unobtrusive way to radiate comfortable, healthy warmth through your home. TERRATHERM pipes in heat via hot water circulated through flexible underfloor pipes. The system delivers warmth that starts at ground level then slowly rises. TERRATHERM is built-in, involving no unsightly heaters, panels or vents. Its zone-by-zone controls also let you manage your home heating more efficiently, ensuring heat goes where and when it's needed.

FOR MORE INFORMATION ABOUT FRESHFLOW CALL

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