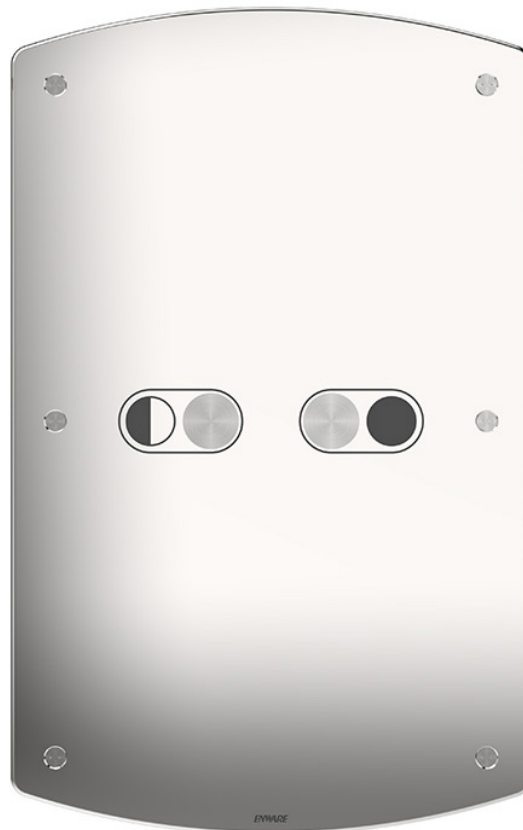


# Restore Touch-Activated Dual Flush WC Flushing System

## Installation and Maintenance Instructions

RH413S



I00401\_FEB 23

**Call 1300 369 273**  
**[www.enware.com.au](http://www.enware.com.au)**

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## technical data

Water Supply	300 kPa *
Connection	Inlet - 1" BSP (25mm)
	Outlet - 1 ½" BSP (40mm)
Minimum Water Supply Line Size	1" (25mm) copper pipe
Kv Factor	8.3m³/h
Flush Pipe	1½" (40mm) flush pipe is required below the air break. (Note: use a maximum of 1x90° bend in flush pipe. If an offset is required 2 x 45° bends must be used. Maximum of 1 offset per flush pipe. Air break must be installed in a vertical position at 700mm +/- 100 mm above the pan inlet.
Pan	4.5/3L Capacity (4 star)
Run Time / Flush Volume	Controlled by Smart Board and/or Smartflow Water Management System (if connected)
Facia Plate Material Grade	316 Stainless Steel
Operating Voltage	12V DC supplied from Smartboard
Maximum Cable Length	8 metres (WC solenoid to Smartboard)

Enware products are to be installed in accordance with the Plumbing Code of Australia (PCA) and AS/NZS3500. Installations not complying with PCA and AS/NZS 3500 may void the product and performance warranty provisions.

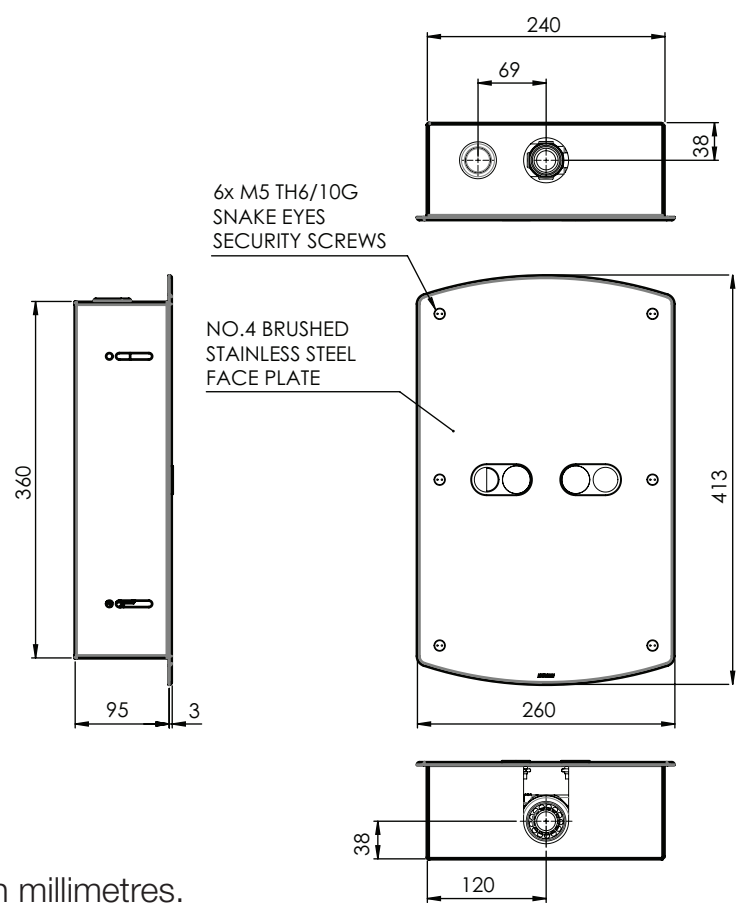
Reference should also be made to the Australasian Health Facility Guidelines (AHFG), ABCB and Local Government regulations when considering the choice of, and the installation of these products.

NOTE: Enware Australia advises:

1. Due to ongoing Research and Development, specifications may change without notice.
2. Component specifications may change on some export models.

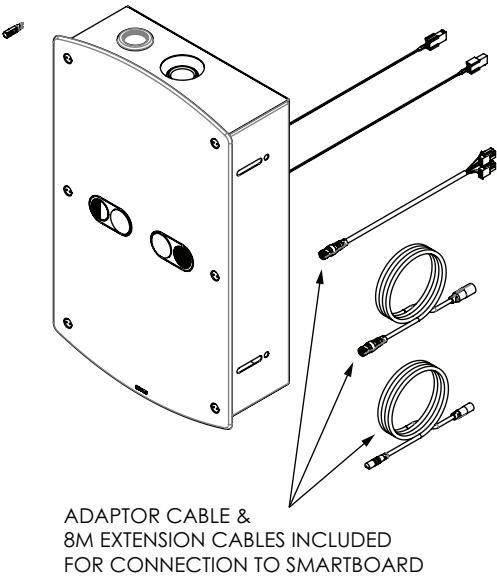
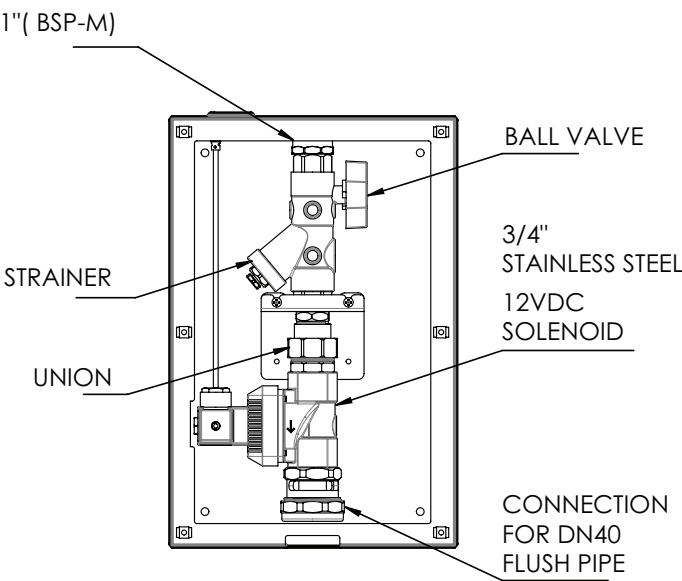
\* WELS volume is only achieved at 300kPa. Use a pressure limiting valve to achieve WELS rating where required.

# dimensions



All measurements are in millimetres.

# components



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## installation - technical requirements

Before proceeding with installation, ensure all operating and dimensional specifications are suitable for the intended installation.

### IMPORTANT TECHNICAL REQUIREMENTS

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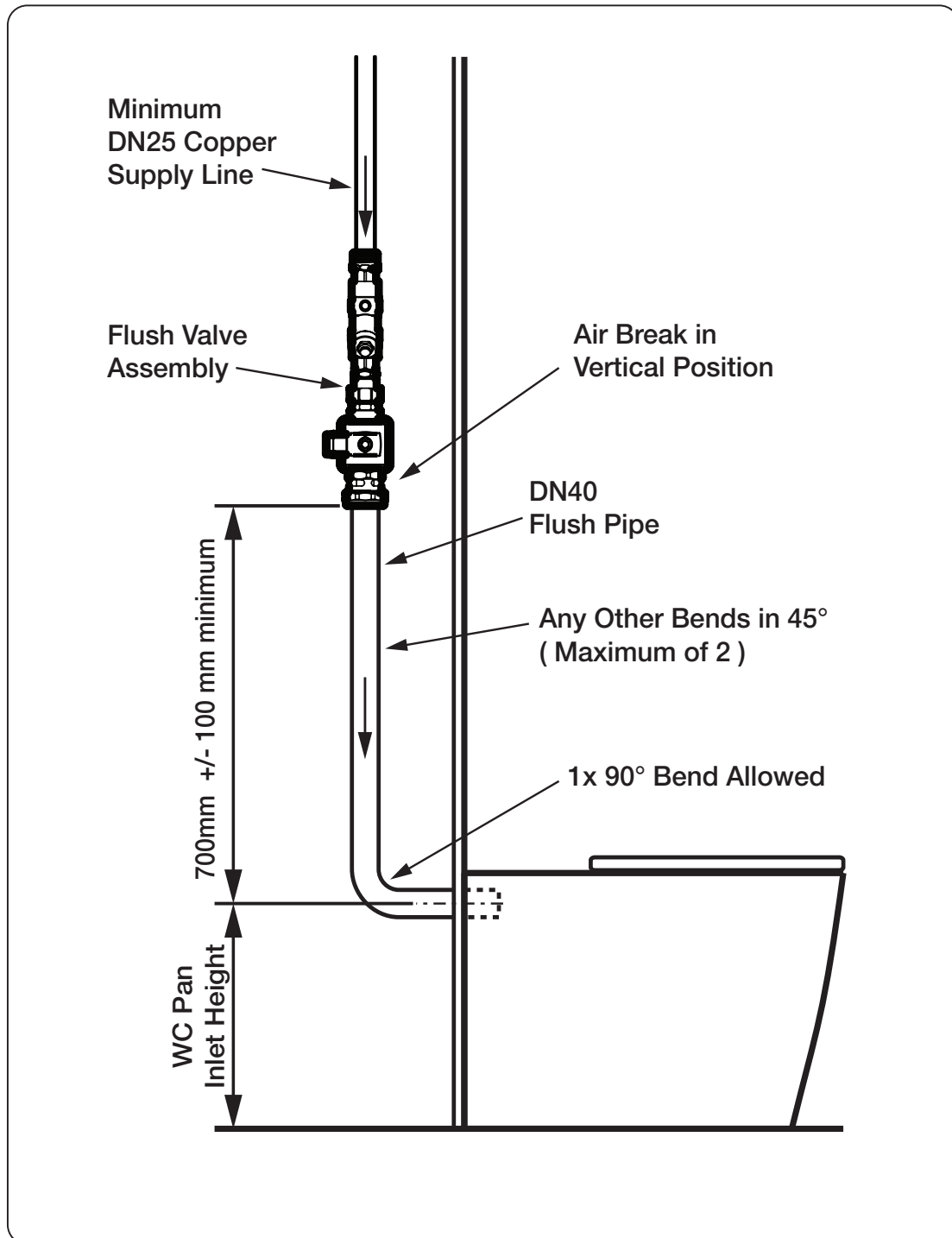
To ensure that the unit works correctly, it is important to ensure that the site and location of installation meets the hydraulic requirements of AS/NZS 3500.1.

In addition, there must be:

- Minimum 25mm copper supply line
- Minimum 200kPa for valve to operate. NOTE: WELS Volume is only achieved at 300kPa
- 40mm flush pipe must be used. Trapnut is suitable for 1-1/2" copper tube. (PVC adaptors / Cap & Lining fittings to be supplied by client if required)
- Maximum of 1 x 90° bend in flush pipe may be used. (Any other bends are required to be 45° - maximum of 2.)
- Air break must be installed in a vertical position.

Pipe work to the valve fixture must be sized according to water service rule calculations and simultaneous demand requirements.

To ensure that the pipeline reticulation system for the valve is designed correctly for the satisfactory performance of the valve, a hydraulic services consultant and/or engineer (or other personnel appropriately qualified in hydraulic services design) must be engaged.



## before proceeding with installation

### ACCESS TO FLUSH VALVE COMPONENTS

Ensure that access to the cabling and connections is available for future maintenance when planning or installing assemblies.

- The cable should be located inside the wall cavity to connect to the Smart Board. All wiring / cables must be installed in such a way that they can be easily removed and replaced if necessary. It is recommended that all cabling is fed through 32mm conduit to allow for servicing and replacement in future.

**WARNING: Do not cut the wires or extend the existing cables without using the correct lead extension from Enware, as this will void warranty.**

### BEFORE CONNECTING WATER SUPPLY

- Ensure all supply lines are flushed thoroughly to remove debris prior to the installation of this product. Strainers (40 mesh) are recommended if debris is an ongoing problem.
- A pressure reduction valve may be required to comply with the recommended maximum supply pressure and/or balanced pressure requirements.

## installation

### INSTALLATION - IN-WALL

1. Determine the position of flush valve to be installed.  
Take note of installation guidelines in Installation - Technical Requirements on Page 4 & 5.  
The flush valve box should be installed flush with or slightly recessed from the finished wall. The flush valve box has depth of 95mm, with 20mm of in-wall adjustability for the face plate. SEE IMAGE 01

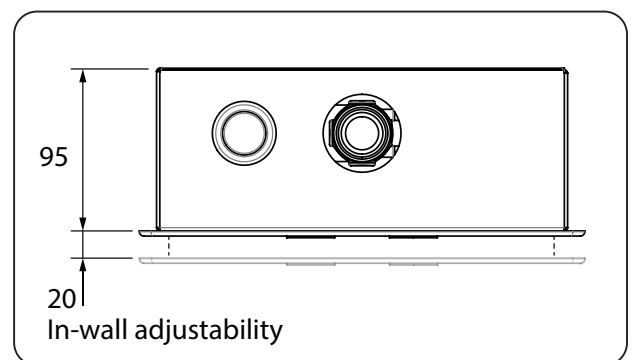


IMAGE 01

# installation

2. Fix the flush valve box inside wall.
3. Connect plumbing to the flush valve.  
If using PVC flush pipe, a 40mm cap and lining must be fitted to the air break. (Cap and lining not supplied)

## TRANSFORMER AND CABLES

4. It is recommended that cabling is fed through 32mm conduit to make servicing and replacement easier.  
Extension cable maximum length: 8m
5. Feed the cables through conduit and connect to Smart Board. SEE IMAGE 02

### WARNING:

Do not cut the wires or extend existing cables without using the correct cable extension from Enware.  
**Cutting cables will void warranty.**

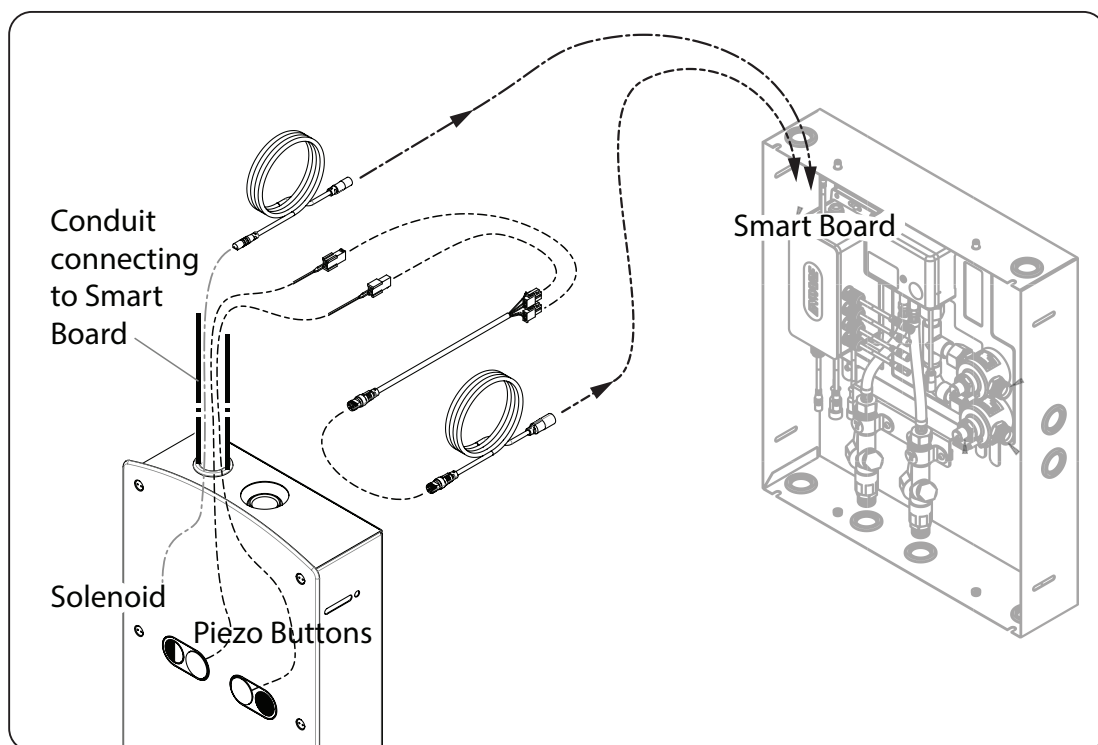


IMAGE 02

## WALL CUT OUT DIMENSIONS

6. Before the wall is sheeted or finished, allow for a cut out in the finished wall surface, of 240mm W x 360mm H. SEE IMAGE 03

## TESTING

7. Turn water supply on and check for leaks.
8. Connect all electrical components together temporarily, and test operation of the flush valve.

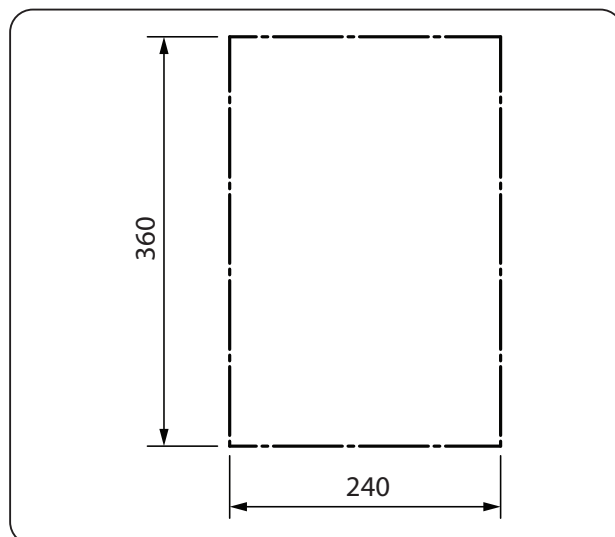


IMAGE 03

## INSTALLATION AFTER THE WALL IS FINISHED

### MOUNTING THE SENSOR PLATE

9. Apply a thin bead of silicone sealant behind the plate along the top and side edges, and mount the face plate flush to the wall.

SEE IMAGES 04 & 05

Fix the face plate with 6 screws supplied, using Snake Eyes bit supplied.

### TESTING

10. Press a piezo button to test the flush valve. If there is any problem see Troubleshooting on page 11.

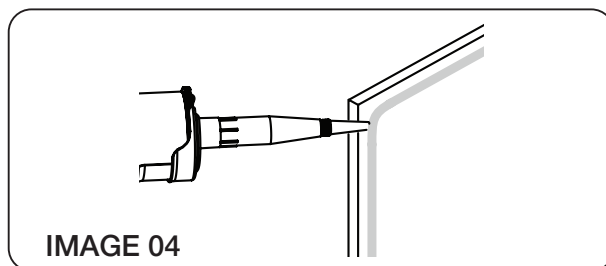


IMAGE 04

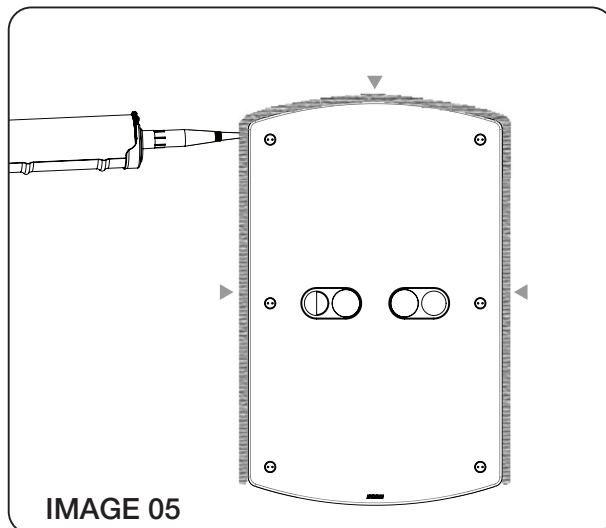
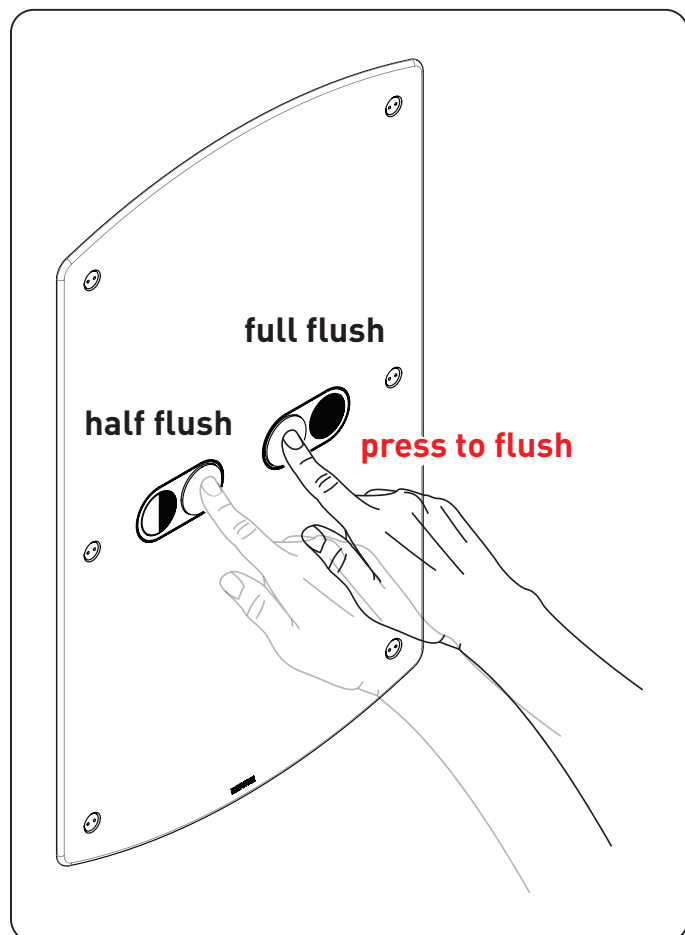


IMAGE 05

## operation



### USING TOUCH BUTTON TO FLUSH

Press the touch button once to activate flush.



## service & maintenance

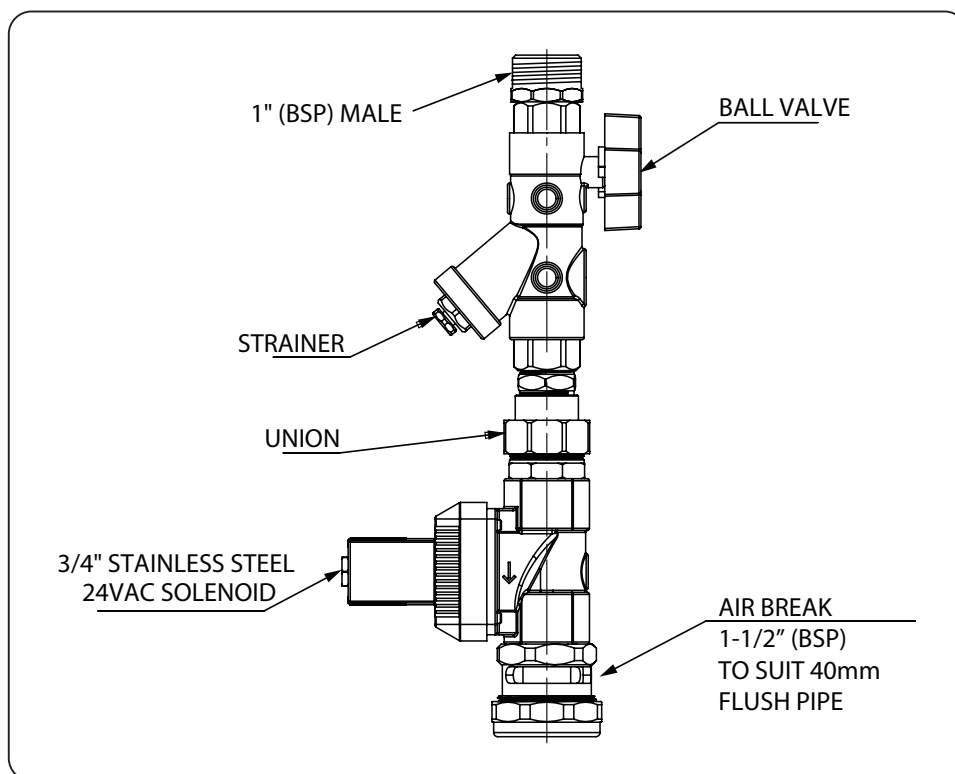
### REGULAR MAINTENANCE

For long periods of non-use, a minimum activation of 1-2 times per day is recommended. High frequency of use and high water supply pressures reduce the service life of a solenoid.

### FILTER CLEANING

This flush valve is provided with a stainless steel filter preventing foreign particles from entering the lines. If the water flow has decreased, this may be because the filter is clogged. The valve can be cleaned as follows:

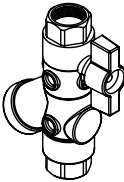
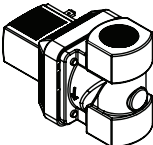
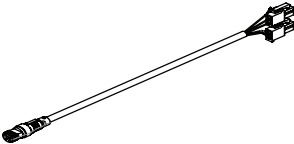


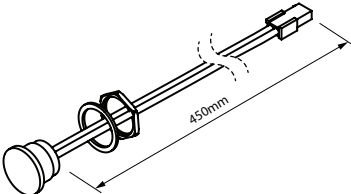
1. Turn off the isolation ball valve.
2. Open the strainer cap on the Y body, directly below the ball valve.
3. Remove the filter and wash it under running water.
4. Re-insert the filter and refit the strainer cap.
5. Turn on the isolation ball valve. Check that there is no leakage.



### CLEANING

Enware products should be cleaned with a soft damp cloth using only mild liquid detergent or soap and water. Do not use cleaning agents containing corrosive acid, scouring agent, solvent chemicals or cream cleaners. Use of unsuitable cleaning agents may damage the surface. Any damage caused in this way will not be covered by warranty.

## spareparts

Name		Part Code
Ball Valve Y-strainer Combination 3/4"		<b>EMFS305</b>
Solenoid SS316 3/4" BSP 12VDC		<b>891541</b>
Service Kit for Solenoid 3/4" DC		<b>WMS8301</b>
Adaptor cable for piezo touch button - 240mm		<b>673846</b>
Extension cable for piezo touch button - 8m		<b>673838</b>
Extension cable for solenoid - 8m		<b>673840</b>
Piezo touch button (DC 300mm cable)		<b>WMS800</b>

## troubleshooting

Refer to the following troubleshooting chart for specific problems and solutions.

PROBLEM	CAUSE	RECTIFICATION
Water does not flow	Loose connection on leads	Reconnect electrical connections
	Dirty or blocked filter	Refer to Filter Cleaning on page 12
	Supply pressure issue	Ensure the <b>dynamic</b> pressure delivered to unit is above 200kpa and below 500kPa
	Cable connection or Smart Board / Smartflow settings	Check cable connections Check settings in Smart Board / Smartflow system
Water does not stop flowing	Debris or scale in the solenoid	Dismantle and clean solenoid. Use solenoid service kit to replace diaphragm if required
	Cable connection or Smart Board / Smartflow settings	Check cable connections Check settings in Smart Board / Smartflow system
Flush pattern not fully covering bowl	Supply pressure issue	Ensure the <b>dynamic</b> pressure delivered to unit is above 200kpa and below 500kPa
Too little water delivered	Supply pipe inadequate size	Ensure supply is DN25 minimum
	Pan water requirements not met by flushing mechanism	Ensure pan has matching WELS rating.

Enware Australia (“we” or “us”) warrants that this product (also referred to as “our goods”) will be free from all defects in materials and workmanship for 12 months from the date of purchase. Our liability under this warranty is limited at our option to the repair or replacement of the defective product or part, the cost of repair of the defective product or part or the supply of an equivalent product or part, in each case if we are satisfied the loss or damage was due to a defect in the materials or workmanship of the product or part. All products must be installed in accordance with the manufacturer’s instructions, the PCA, and AS/NZS3500 including any other applicable regulatory requirements.

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## making a claim

To make a claim under this warranty you must notify us in writing within 7 days of any alleged defect in the product coming to your attention and provide us with proof of your purchase of the product and completed the Online Product Service and Warranty Form available on website [www.enware.com.au/product-service-enquiry](http://www.enware.com.au/product-service-enquiry).

All notifications and accompanying forms must be sent to us marked for the attention of the Enware Australia, 9 Endeavour Road, Caringbah NSW 2229. We can also be contacted by telephone (1300 369 273) or by email ([info@enware.com.au](mailto:info@enware.com.au)).

Your costs in making a claim under this warranty, including all freight, collection and delivery costs, are to be borne and paid by you. We also reserve the right at our cost to inspect any alleged defect in the product wherever it is located or installed or on our premises.

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## exceptions

This warranty does not apply in respect of any damage or loss due to or arising from:

- a) Failure by you or any other person to follow any instructions for use (including instructions and directions relating to the handling, storage, installation, fitting, connection, adjustment or repair of the product) published or provided by us;
- b) Failure by you or any other person responsible for the fitting, installation or other work on the product to follow or conform to applicable laws, standards and codes (including the AS/NZ 3500 set of Standards, all applicable State and Territory Plumbing Codes, the Plumbing Code of Australia and directions and requirements of local and other statutory authorities); or
- c) Any act or circumstance beyond our control including faulty installation or connection, accident, abnormal use, acts of God, damage to buildings, other structures or infrastructure and loss or damage during product transit or transportation.

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## other conditions

Except as provided or referred to in this document, we accept no other or further liability for any damages or loss (including indirect, consequential or economic loss) and whether arising in contract, tort or otherwise. Any benefits available to you under this warranty are in addition to any non-excludable rights or remedies you may have under applicable legislation, including as a “consumer” under the Australian Consumer Law. To that extent you need to be aware that: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.