

SPRING ACTION SERIES BUBBLERS AND TAPWARE

Installation Instructions

CAM ACTION

School Pattern
anti vandal
capstan handle
rotates a quarter
turn in a clockwise
or anticlockwise
direction to operate
the water flow



LEVER ACTION

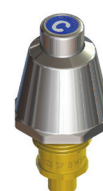
operates in all
directions providing
a simplified
alternative operation
for small children or
disabled users



Note: This product is not suitable
for use in situations where sand
ingress into lever mechanism is
likely, such as near sandpits

BUTTON ACTION

provides a low
profile option for
use in areas with
an increased risk
of vandalism



TECHNICAL INFORMATION For use with potable water only

Bubbler Inlet Connection	15mm (1/2" BSP)
Spring Loaded SBA (Spindle)	5/8" BSP
Working Pressure Range	30 – 1200 kPa
Recommended Working Pressure Range	100 – 500 kPa (Max. 500 kPa – AS3500)
Flow Rate (Drinking Fountain)	2 – 2.5 L/min approx. with flow stream set 50mm above guard top
Operating Temperature Range	0 - 85 °C *
Recommended Operating Temperature Range for Drinking Fountains	5 – 30 °C
Recommended Temperature for Use as a Hot Water Valve	Pre-Mixed Warm Water Thermostatically Regulated to Maximum 45 °C *

COMPLIANCE

Enware products must be installed in accordance with the Plumbing Code of Australia (PCA), AS/NZS3500 and the manufacturer's instructions. Installations not complying with PCA, AS/NZS 3500 and the manufacturer's instructions may void the product and performance warranty provisions.

This product must be installed and commissioned by a qualified plumber.

* Where the product is used as a hot water tap, it should only use thermostatically regulated pre-mixed warm water. There can be no control over the mixed water temperature as is normally achieved in a standard mixing tap, as the spring action mechanism is either fully on or off.

installation

BEFORE PROCEEDING WITH INSTALLATION

Ensure all supply lines are flushed thoroughly to remove debris prior to the installation of this product as per AS/NZS 3500.1. Strainers (40 mesh) are recommended if debris is an ongoing problem.

STEP 1 Flush the water supply line to clear any debris.

STEP 2 - FITTING THE TAP

WALL MOUNTED & UPRIGHT FOUNTAINS

Apply thread sealant to the thread connection, and screw on the bubbler using a spanner on the flats provided at the base of the body. Do not use the guard or the handle of the tap to tighten.

BUBBLER WALL BRACKET / BUB219

(With Two Fixing Screw Holes In The Wall Flange):

Before applying thread sealant, first, screw the bubbler onto the $\frac{1}{2}$ " BSP male thread connection on the wall and leave in the final position. Adjust the bracket and mark the position of the two fixing holes on the wall, then unscrew and remove the bubbler from wall. Drill the two holes marked. Apply thread sealant to the thread connection, and after screwing bubbler onto wall use appropriate fixing method to secure the bracket/ bubbler in place (screws and/or wall plugs are not supplied). **SEE IMAGES 1-3**

PILLAR TAP

Prepare the hole for the tap if not done already. Before drilling the hole, check the maximum thickness of the bench, and the orientation of the tap if using a square hole.

Note: Maximum bench thickness 50mm.

The base of Pillar Taps are designed to fit both a round hole $\Phi 33$ mm or a square hole 29mm x 29mm. **SEE IMAGE 4**

Fit the tap through the hole.

Screw the fixing nut from underneath the basin and tighten.

For a bench with thickness less than 10mm (e.g. stainless steel sinks/ troughs), use the black spacer cup washer to cover the lugs that protrude past the underside surface.

Connect water supply to the $\frac{1}{2}$ " BSP inlet thread connection.

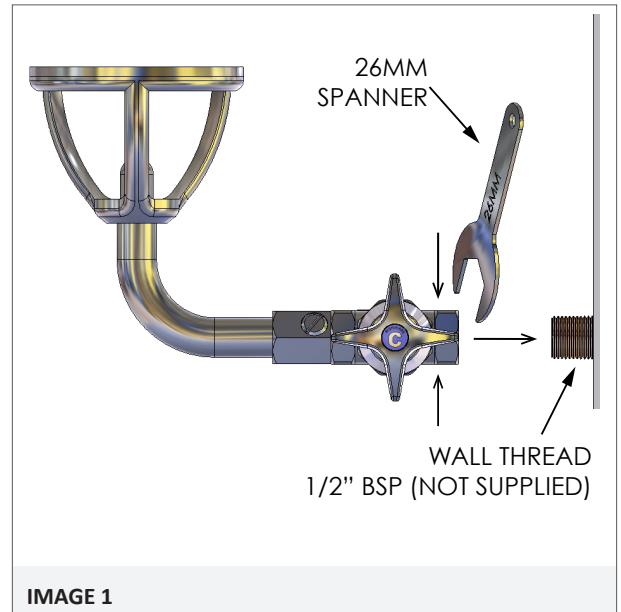


IMAGE 1

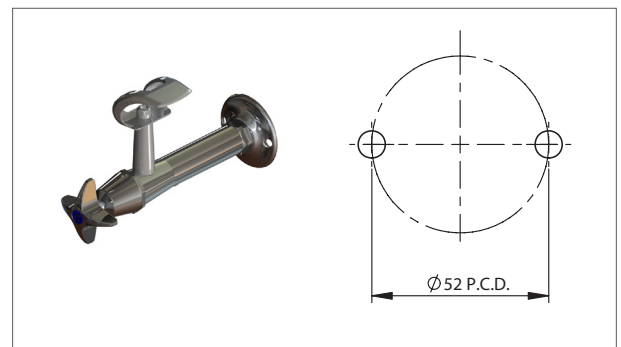


IMAGE 2

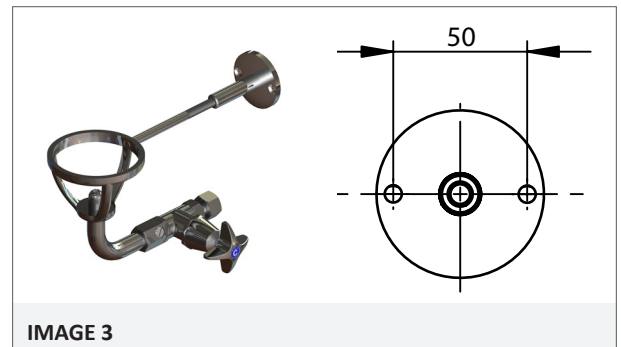


IMAGE 3

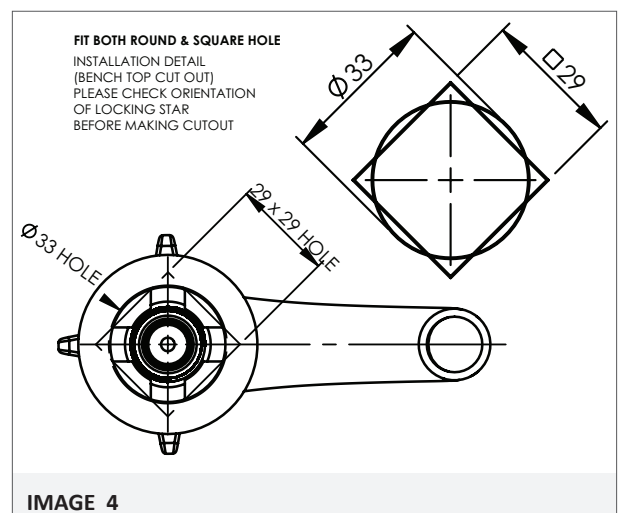
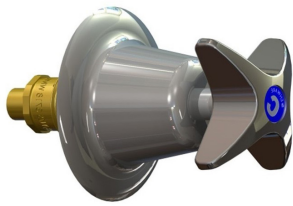


IMAGE 4



RECESS ADAPTOR

Designed to suit basin and recess tap bodies conforming to AS1718, this product eliminates the need to manually shut off the tap, by closing immediately after the action is released.

The user must hold the tap on to maintain water flow. The product should only be used with thermostatically pre-mixed warm water to the hot tap. There can be no control over mixed water temperature as is normally achieved in a standard mixing tap, as the spring action mechanism is either fully on or off.

Note maximum depth of recessed tap body is 10mm (minimum 0mm, flush with wall) **SEE IMAGE 5.**

Not suitable for tap bodies where seat is damaged, has been re-seated or has an added stainless steel seat, as product requires set standard depth to seal against body seat.

The SBA must be fitted to the basin body separately from the dome and spindle / handle / button / lever assembly.

The recess adaptor has a brass dome underneath the chrome flange. To set the brass dome to its optimum position, refer to STEP 5 - DOME ADJUSTMENT.

STEP 3

Turn water on and check the threaded joint for leaks. Test operation of the tap.

STEP 4 – FLOW ADJUSTMENT

(FOR BUBBLERS WITH FLOW ADJUSTMENT)

Adjust water stream height. To do this, firstly unscrew and remove the regulator screw cover cap using a flat head screw driver. (Note this is only a cover - the regulator screw is inside once the cover is removed.)

Secondly, locate the flow adjustment screw inside. Turn the spring action handle on full and adjust the screw - tighten to reduce the flow or loosen to increase the flow.

As a guide, the water stream height should clear the top of the guard by approximately 50mm.

Once the desired water stream height is achieved, put the regulator screw cap back on. **SEE IMAGES 6 & 7**

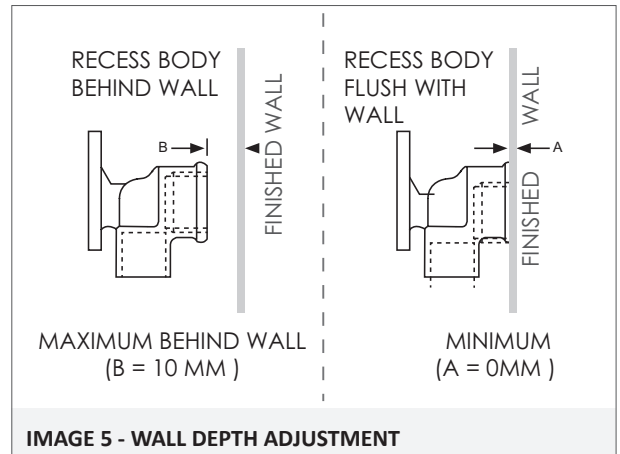


IMAGE 5 - WALL DEPTH ADJUSTMENT

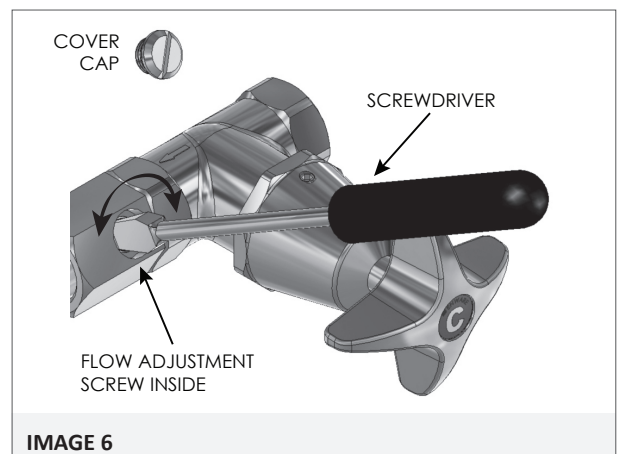


IMAGE 6

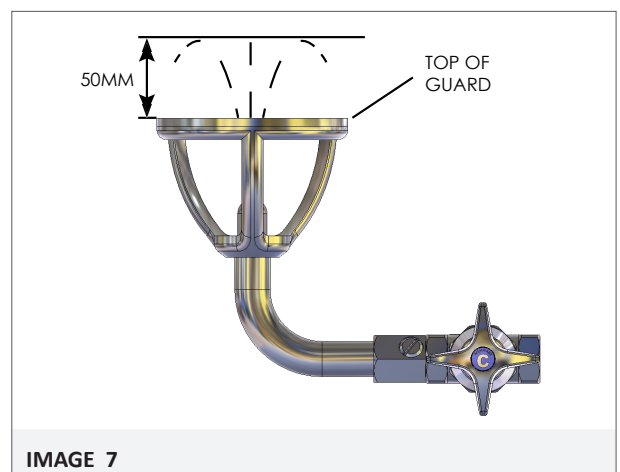


IMAGE 7

STEP 5 – DOME ADJUSTMENT

For adjusting play on handle, constant leaking, or no water flow.

Adjust the position of the dome if:

- the play on the handle/ lever/ button needs to be adjusted
- if the bubbler is not shutting off completely, or
- if there is no water flow

Adjust the Dome by carrying out the following steps:

SEE IMAGE 8

- Using a 3/32" or 2.5mm Allen key undo grub screw located on the side of the dome cover near the hex. **IMAGE 8**
- Unscrew the dome from the SBA slowly. The water flow should stop.
- Now this time, screw the dome into the SBA. Water should begin to flow from the outlet.
- At this point, unscrew the dome just slightly by approx $\frac{1}{8}$ to $\frac{1}{2}$ a turn - the water should stop flowing from the outlet. This is the ideal position of the dome.

If the dome is screwed in too far, the handle will push the bubbler down and let water through constantly. If the dome is wound too far out, the handle will have too much play and will feel loose.

- Once the correct dome position is achieved, install the grub screw ensuring it is tightened square against one of the SBA flats underneath to maximize vandal resistance.
- Re-test the tap for correct operation.
- If problems persist, refer to TROUBLESHOOTING on page 6.

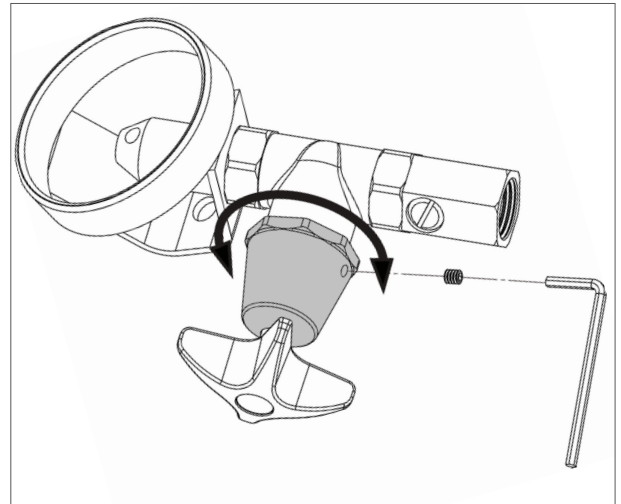
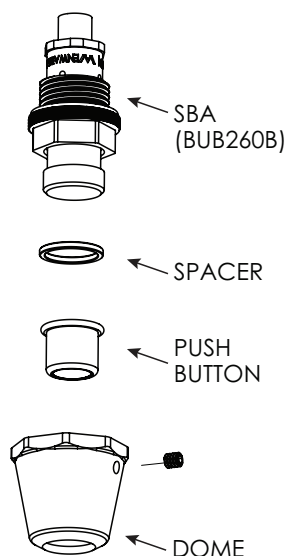
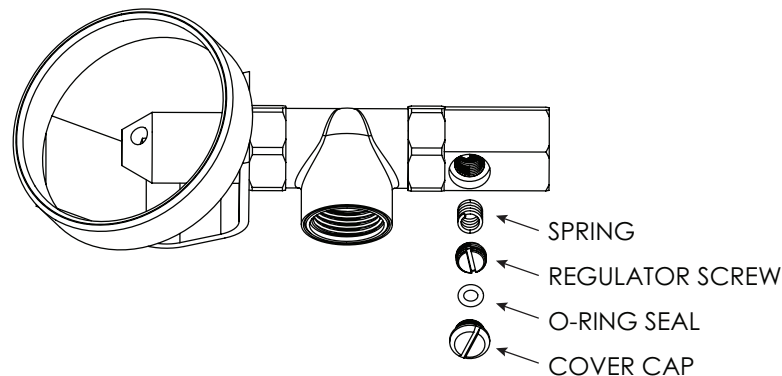
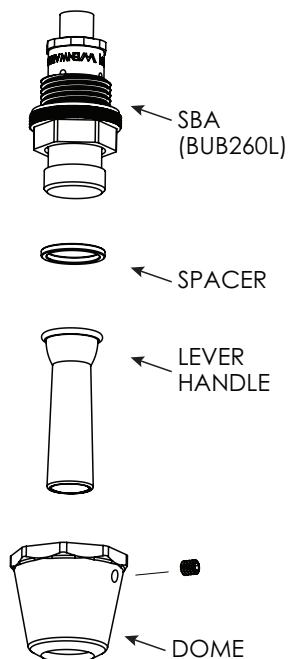


IMAGE 8

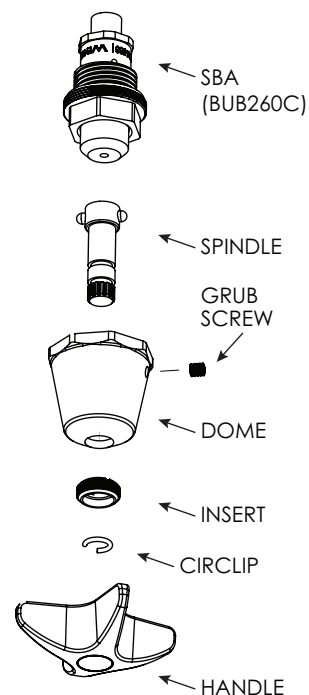
components



BUTTON ACTION TOP ASSEMBLY - BUB263



LEVER ACTION TOP ASSEMBLY - BUB262



CAM ACTION TOP ASSEMBLY - BUB261

spare parts

Cam Action Top Assembly	BUB261
Lever Action Top Assembly	BUB262
Button Action Top Assembly	BUB263
Cam Action SBA	BUB260C
Lever Action SBA	BUB260L
Button Action SBA	BUB260B
Cam Action Dome	BUB221C
Colour Indicator Button (specify Cold, Warm or Hot)	MIS595

Lever Action / Button Action Dome	BUB221L
Cam Action Handle Only	VP378
Regulator Cap	BUB256
Regulator Screw	893514
Allen Key 3/32"	MIS592
Anti Vandal Handle Key	MIS590
Spring Loaded SBA Service Kit	BUB289
Includes 2x piston O-rings, 1x spring, 1x light spring, 1x ball bearing, 1x ball seating washer, 1x seat O-ring, 1x red fibre washer	

troubleshooting

PROBLEM	CAUSE	RECTIFICATION
Water runs constantly from outlet	Dome screwed in too far	Adjust dome. See Installation STEP 5
	Dome incorrectly adjusted	Adjust dome. See Installation STEP 5
	Debris fouling ball seating washer or stainless steel ball	Dismantle SBA and clean
	SBA ball seating washer is damaged or spring is broken	Replace SBA components using spare part kit BUB289 or replace SBA
No flow from outlet	Water supply turned off	Turn water on
	Debris fouling inlet or outlet ports of SBA	Remove SBA and remove blockage
	Debris fouling flow adjustment screw	Remove flow adjustment cap and adjustment screw and remove blockage
	Rubbish/debris fouling outlet	Remove blockage
Handle feels too loose	Dome screwed out too far	Adjust dome. See Installation STEP 5
	Dome incorrectly adjusted	
Spring action does not move	Piston in SBA is seized	Clean piston and piston o-rings, and regrease. Use spare part kit BUB289 (See service and maintenance)
Water discharge from top of dome/ SBA	Piston O-rings are worn	Replace O-rings using spare part kit BUB289. Regrease piston (See service and maintenance)
Fountain water stream too low or too high	Water supply conditions have changed or are fluctuating	Check water supply pressure. Reset water stream height by adjusting flow adjustment screw – see Installation STEP 4
	Incorrect flow adjustment	

service and maintenance

It is recommended that the spring action be periodically serviced. As a guide, every 6 months the spindle should be cleaned and re-greased, and the handle insert and other components checked for tightness. The servicing interval will vary depending on the frequency of use of the product, water quality and the general environment.

On Cam Action product it is recommended to periodically check that the handle insert is secure, by tightening with the Anti vandal handle spanner.

If the components inside the SBA are worn or damaged, replace the SBA or use the service kit to replace components.

REMOVING THE TOP ASSEMBLY TO ACCESS SBA AND CLEANING & REFITTING

1. Using a 3/32" or 2.5mm Allen key undo the grub screw located near the hex of the dome.
2. Unscrew the dome from the SBA.
3. Remove any grease or scale build up in the dome and the top assembly components. Use a diluted solution of CLR for cleaning if necessary.
4. Refitting the top assembly: Grease the inside of the Dome around spindle mechanism
5. Fit the Dome and handle assembly.
6. Adjust the position of dome see Installation Step 5

CLEANING AND LUBRICATING THE SPINDLE

The spring action can be maintained by simply cleaning and lubricating the spindle (piston) using a silicon-based lubricant approved for potable water. This can be done without turning off the water supply.

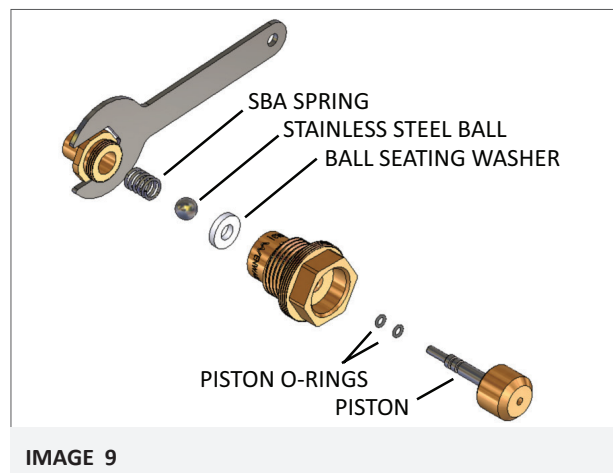
1. Pull out the piston (the top part) of the SBA and wipe off any excess grease. **SEE IMAGE 9**
2. Clean the two small o-rings. Replace them if necessary, and re-grease them.
3. Push the piston back into the SBA.

REPLACING THE SBA

1. Shut off water supply and remove the top assembly.
2. Use a suitable spanner (26mm) and unscrew the SBA from the tap body. Make sure the seal o-ring is not left on the seat of the body and the old red fibre washer is also removed.
3. Replace with a new SBA.
4. Depress the piston to start water flow. Release the piston to stop the flow and check for leakage. If a leak is present refer to Troubleshooting to identify cause of leakage & rectify before proceeding.

SERVICING THE SBA

1. Pull the piston assembly out from the SBA and remove the 2 piston o-rings. **SEE IMAGE page 5.**
2. Use a spanner to unscrew bottom inlet port, remove spring and stainless steel ball in the port.
3. Insert a small screw driver in centre hole of the ball seating washer and remove the ball seating washer by levering it out.
4. Clean all brass and chrome components. Remove any debris or scale, especially on the piston, spindle and in the dome. Use a diluted solution of CLR for cleaning if necessary. Check all brass components for wear or damage.
5. Lightly grease the two small piston o-rings with a silicon based, potable water approved grease (e.g. Hydroseal Tap Lubricant or Molykote111) and fit the two o-rings to the piston.
6. Now reassemble the SBA with new components from Service Kit. Place the ball seating washer, ball and spring back in the bottom inlet port, and tighten up the bottom inlet port to the SBA. Refit the seat o-ring and seating washer. Push the piston into the SBA. **SEE IMAGE 9**



CLEANING INSTRUCTIONS

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

If re-greasing spindles, always use a Silicon-based potable water approved lubricant such as Hydroseal 'O' Ring Lubricant or Molykote 111 silicone based grease.

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.

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 at www.enware.com.au/product-service-enquiry

All notifications and accompanying forms must be sent to Enware Australia, 9 Endeavour Rd, Caringbah NSW 2229. Contact can also be made by calling 1300 369 273 or email (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.

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.

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.