

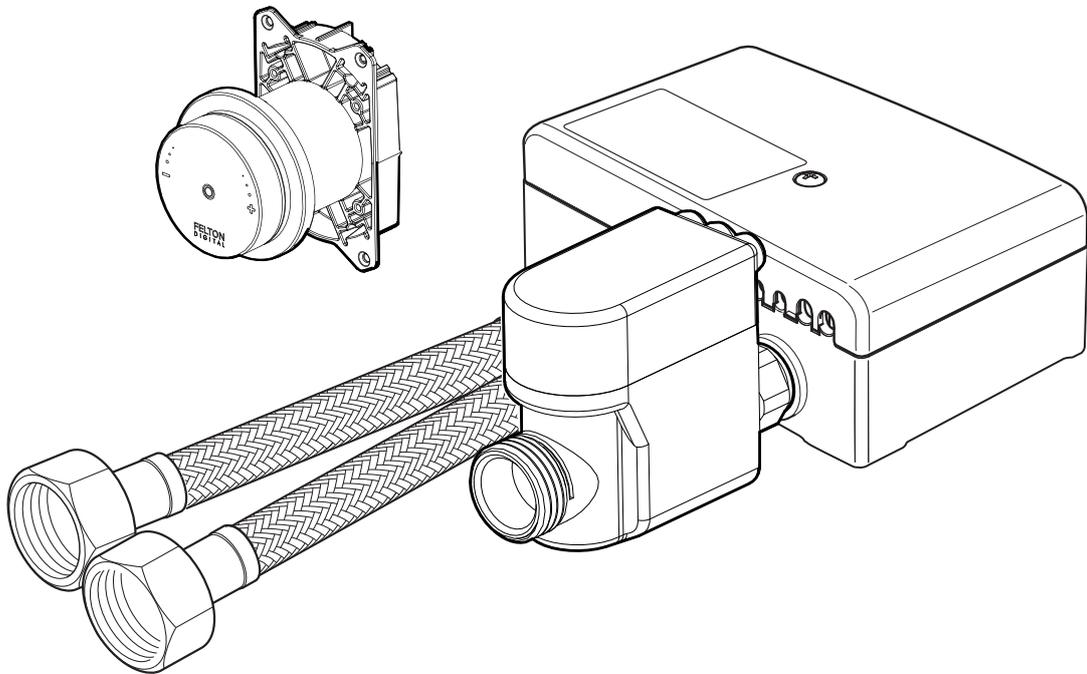
# INSTALLATION GUIDE

AUSTRALIA

## SMARTFLOW

Digital Thermostatic Shower Mixer

FD-SFCSMCA



**FELTON**  
DIGITAL



## CONTENT

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## NOTICE

PLEASE READ THE MANUAL CAREFULLY BEFORE STARTING THE INSTALLATION. AFTER COMMISSIONING AND TESTING THE SYSTEMS FUNCTIONALITY, THIS DOCUMENT MUST BE GIVEN TO THE END USER OF THE SYSTEM.

### PRODUCT TO BE DISCONNECTED BEFORE LINE TEST

In case of a power cut, the unit will remain inactive until the power is back on.

### GENERAL

This installation manual contains instructions for the correct installation of the **Smartflow** product. The warranty will be invalidated if the product is not installed according to these instructions.

Installation must be carried out by qualified installers in accordance to this installation manual. Country-specific standards, rules and safety regulation do apply.

### PLACE OF INSTALLATION

The **Smartflow** product must be installed in an accessible place and in accordance to this installation manual. This ensures a problem-free service and maintenance procedure.

### DANGER OF ELECTRIC SHOCK!

#### ELECTRICAL INSTALLATION

Before opening the housing, the mains connection must be switched off. Work on electrical parts and connections must be carried out by qualified electrician. Country-specific standards and regulations do apply.

### MAINTENANCE

Felton Digital products are made of high quality materials and require only minimal maintenance. The following maintenance tips help to preserve the surface and prevent damage through incorrect cleaning. Fittings and control parts should be wiped dry after used. Only use mild cleaning products that contain soap. The following must not be used: Scourers, abrasive sponges, hydrochloric acid, lime-, plaster- or cement removers, solutions or cleaning agents containing acid ( $\text{pH} \leq 4$ ), lime scale remover or vinegar-based cleaner – and cleaning agents where the chemical solution is not known which may be sold as special cleaner for fittings.

#### WATER PATH

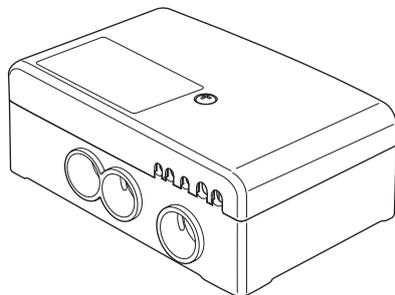
|                            |                         |
|----------------------------|-------------------------|
| Input                      | 2×M10 × 1               |
| Output                     | 1/2" BSP male           |
| Flow                       | max. 22 l/min at 300kPa |
| Pressure range             | Min 150kPa - Max 500kPa |
| Difference of pressure     | Max. 100kPa/14.5psi     |
| Maximum outlet temperature | 45°C                    |
| Hot inlet temp range       | 55°C - 85°C             |
| Cold inlet temp range      | 5°C - 25°C              |

#### ELECTRONICS

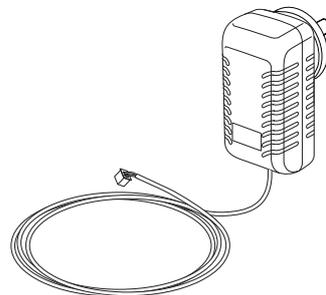
|                   |                          |
|-------------------|--------------------------|
| Power supply      | 100V-240V AC/50-60Hz     |
| Power consumption | Standby < 0.5W, max. 18W |



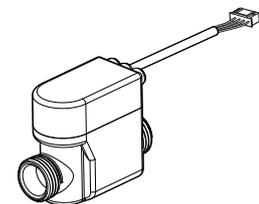
## BOX 1 TLC TEMP FLOW ADVANCED SHOWER



1. Temperature controller unit



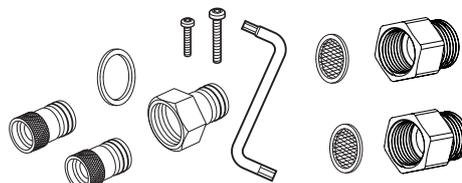
2. 12V AC Adapter (Cable length: 1m)



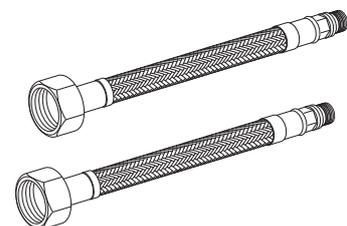
2. Flow controller unit



3. Set of screws, 2x5x50mm

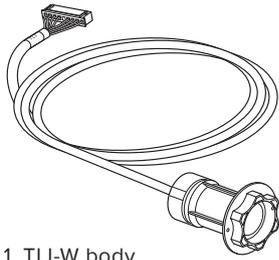


4. Adapter set



5. M10 Hose 450 mm (supplied)

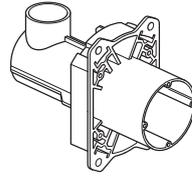
## BOX 2 INTERFACE WHEEL TLI-W 6000MM



1. TLI-W body



2. TLI-W knob



3. In-wall box



4. Set of screws, 6x2.5x16mm



5. Black foam seal



6. Chrome flange

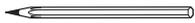


7. Mounting ring



8. White foam seal

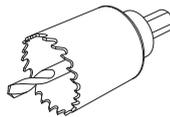
## TOOLS REQUIRED



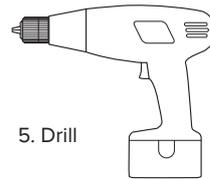
1. Pencil



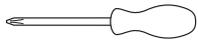
2. Drill bit  $\varnothing 5$  mm



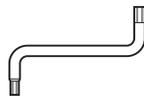
4. 70mm holesaw



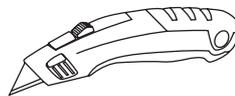
5. Drill



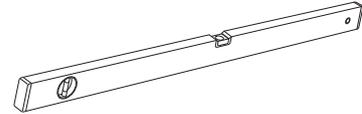
3. Crosshead screwdriver



4. Torx screwdriver  
(included in box 1)

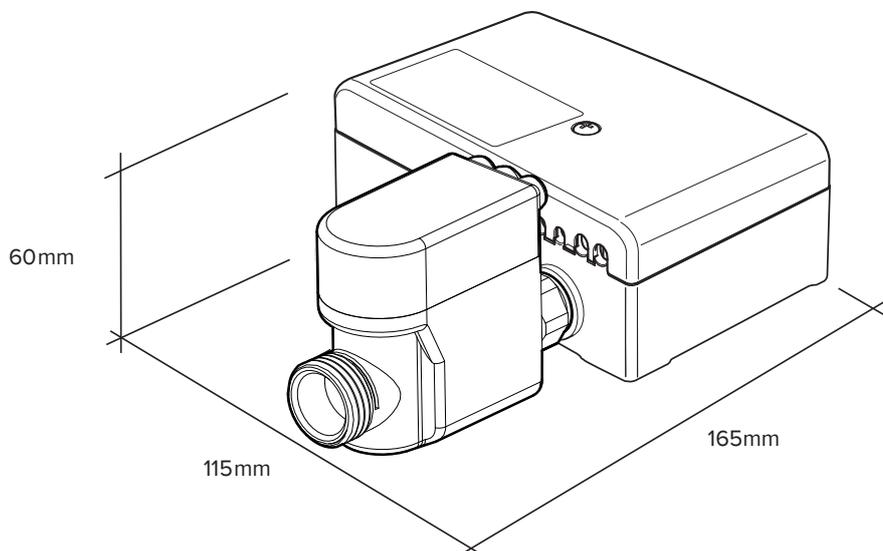


8. Utility knife



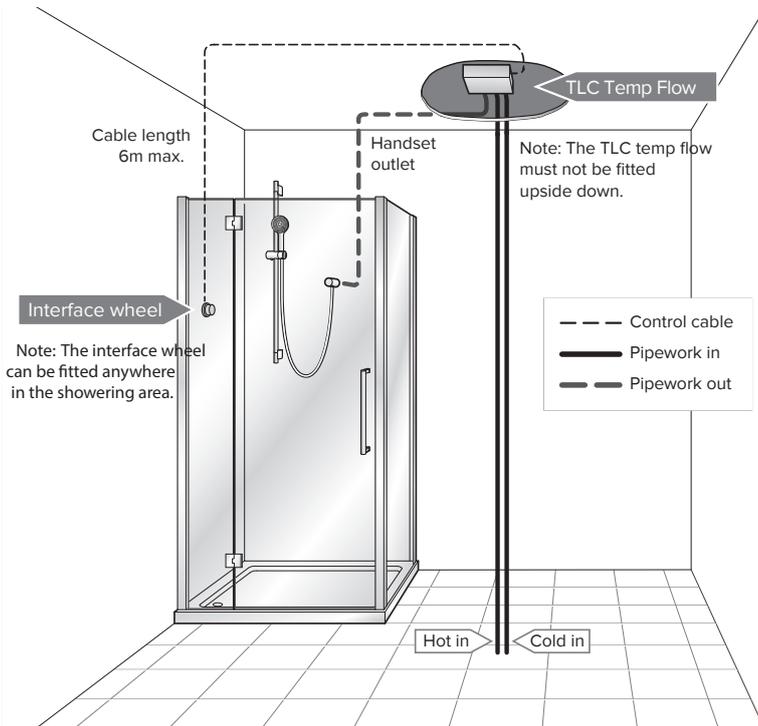
6. Spirit level

## MEASUREMENTS

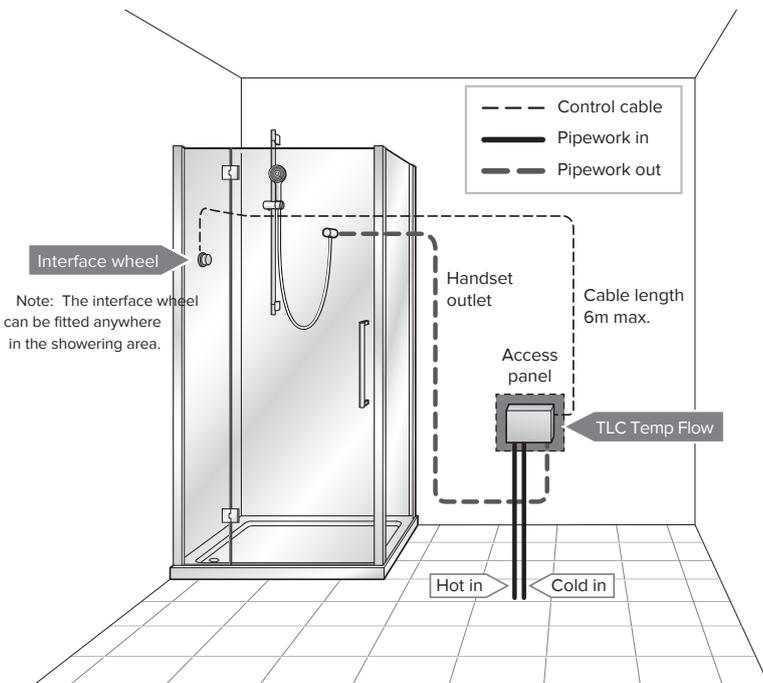


## SCOPE OF APPLICATION

### A Ceiling Mounted Shower handset (Recommended)



### B Wall Mounted Shower handset



**Important:** The TLC Temp Flow must be accessible and should not be sealed in the wall

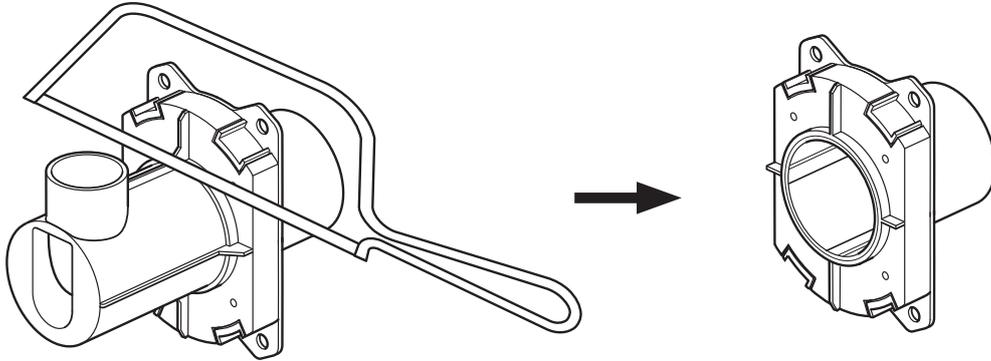
#### **Warning**

Please make sure the power source is installed by a qualified electrician and complies to Electrical standard/NZ laws. **Important:** The TLC Temp Flow must have an access panel.

## INTERFACE WHEEL PRE-LINE INSTALLATION

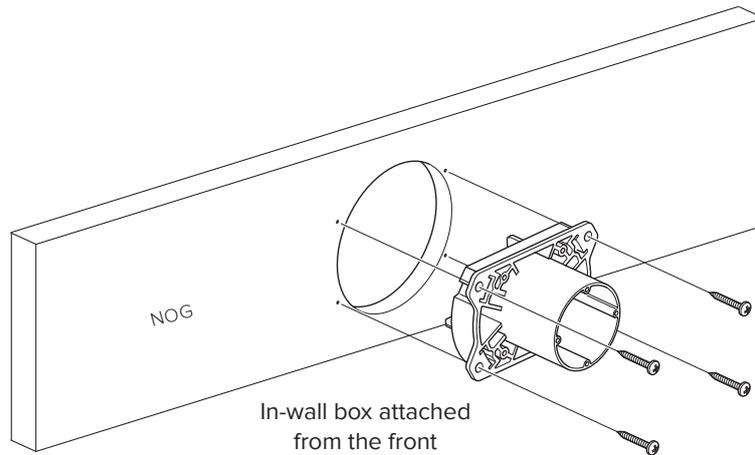
### 1 Cutting down the in-wall box (OPTIONAL)

**NOTE:** We recommend the in-wall box is cut down as shown using a hacksaw

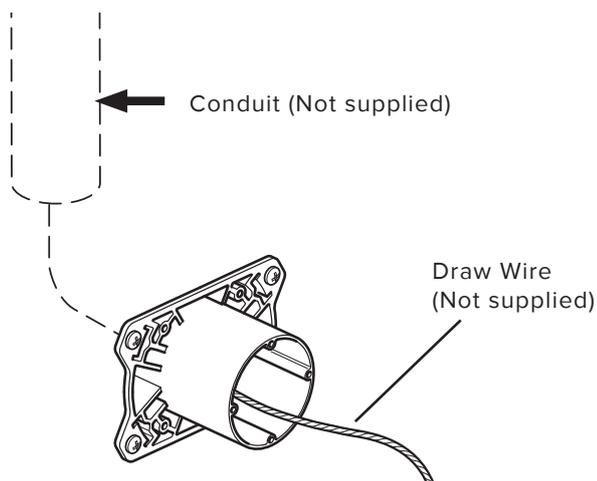


### 2 Attaching the in-wall box

Prepare the wall to take the in-wall box. The installation of the in-wall box will depend on each individual situation. **In-wall box attached from the front: a 70mm diameter hole is required in a fixing nog flush with face of the timber framing. Conduits should be used in the walls where necessary to protect the cables and allow maintenance.** Attach the in-wall box using the screws supplied.

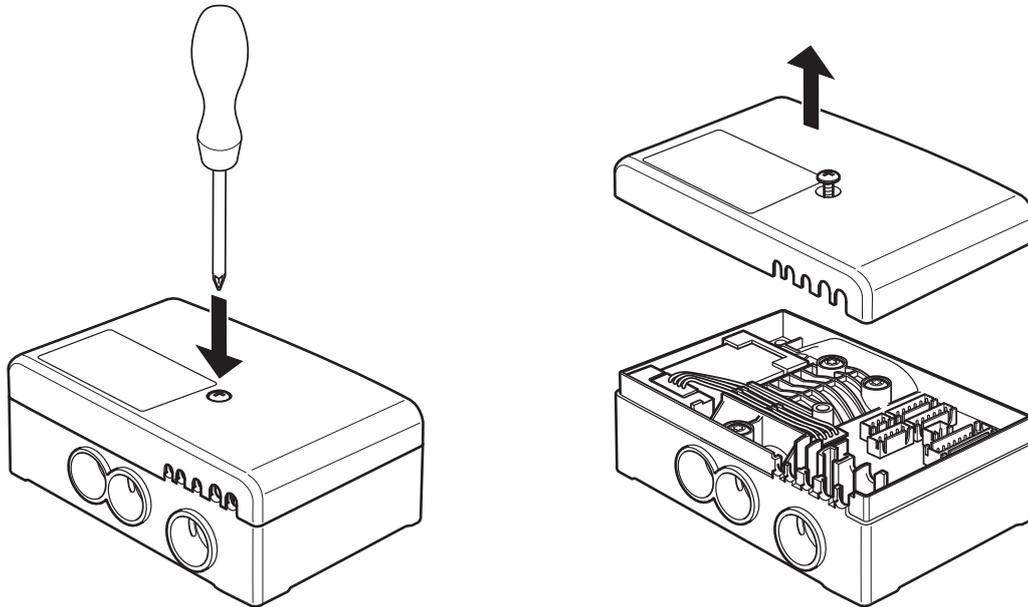


### 3 Draw wire through in-wall box

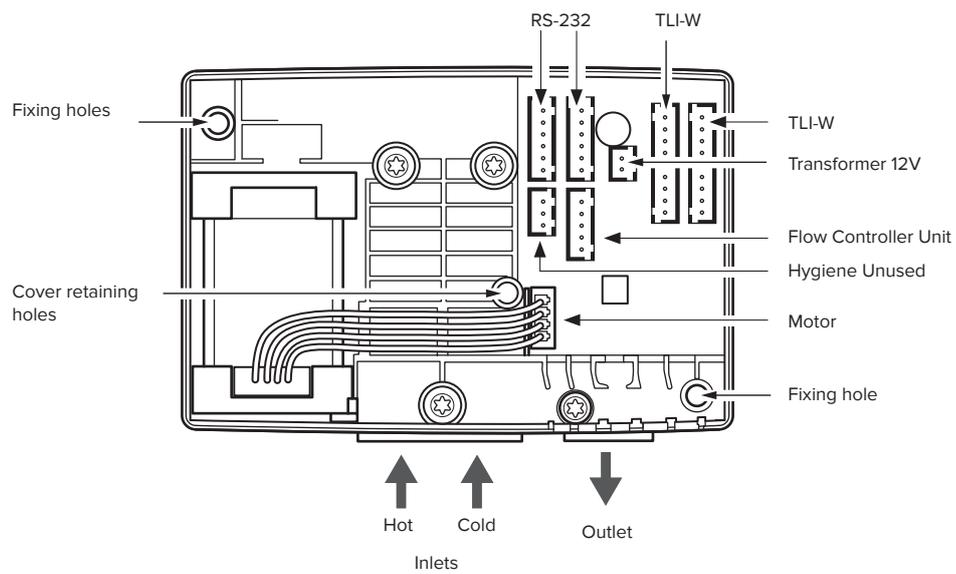


## TLC TEMP FLOW INSTALLATION

### 4 Remove cover

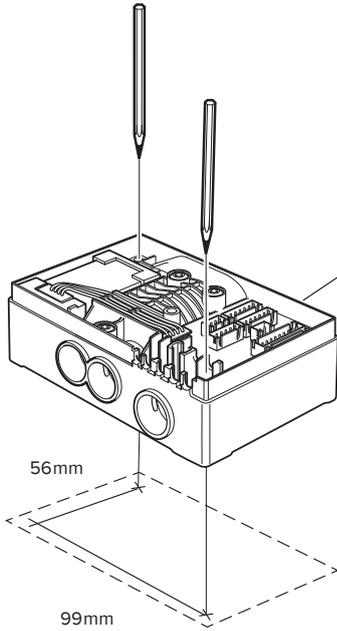


### 5 Inside Temperature Controller Unit

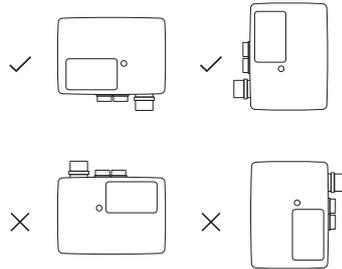


# MOUNTING OPTIONS

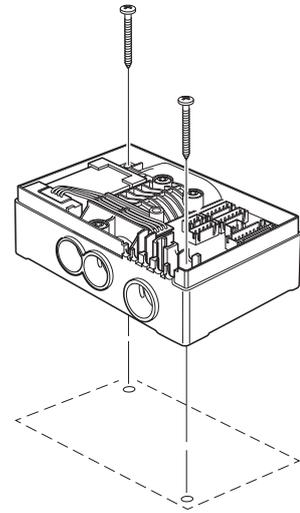
## MOUNTING FOR NOG



**1** Mark fixing holes

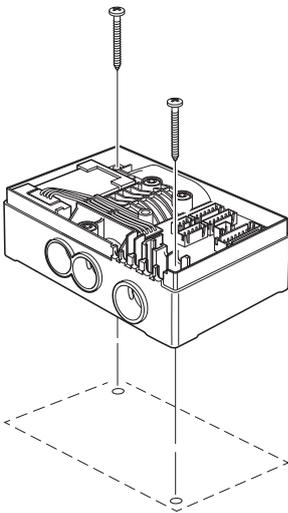


\* If installed vertically, use orientation shown

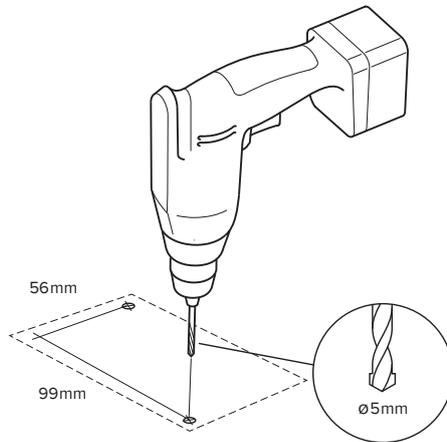


**2** Install TLC Temp Flow

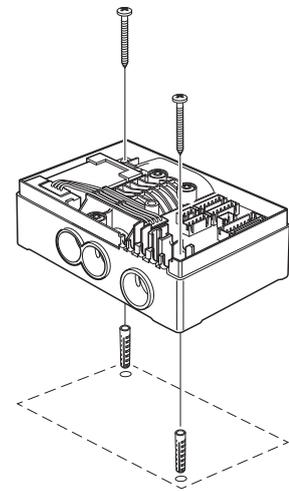
## MOUNTING FOR CONCRETE



**1** Install TLC Temp Flow



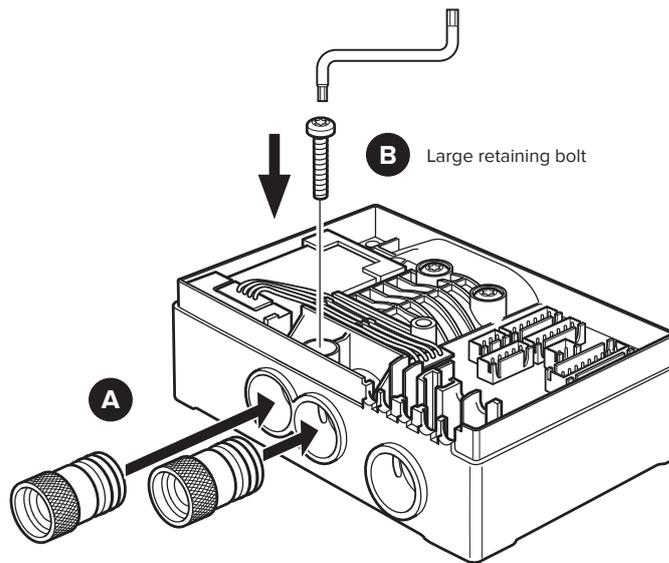
**2** Drill fixing holes



**3** Install TLC Temp Flow

6 Connect adapters and fit large retaining bolt with torx screw driver supplied.

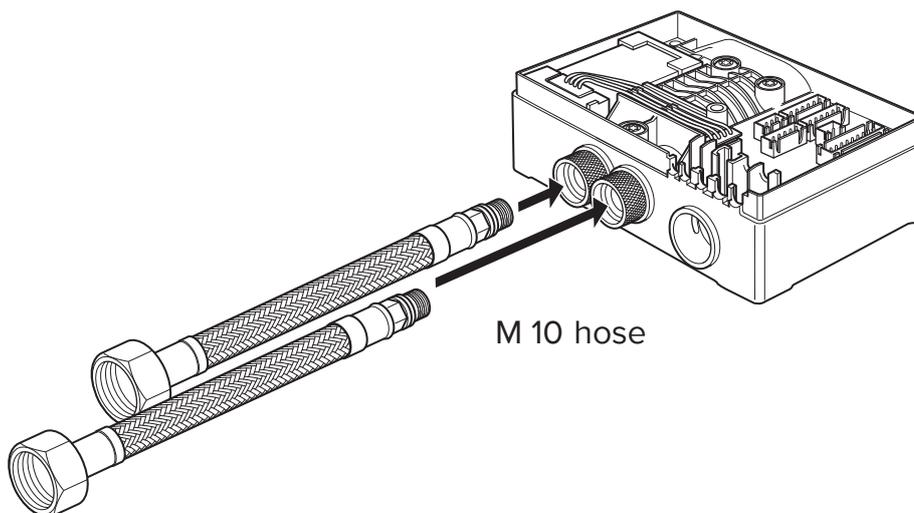
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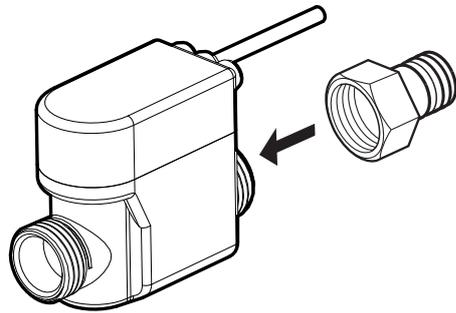
**ADVICE:** Push in firmly!

7 Connect the two M10 flex hoses

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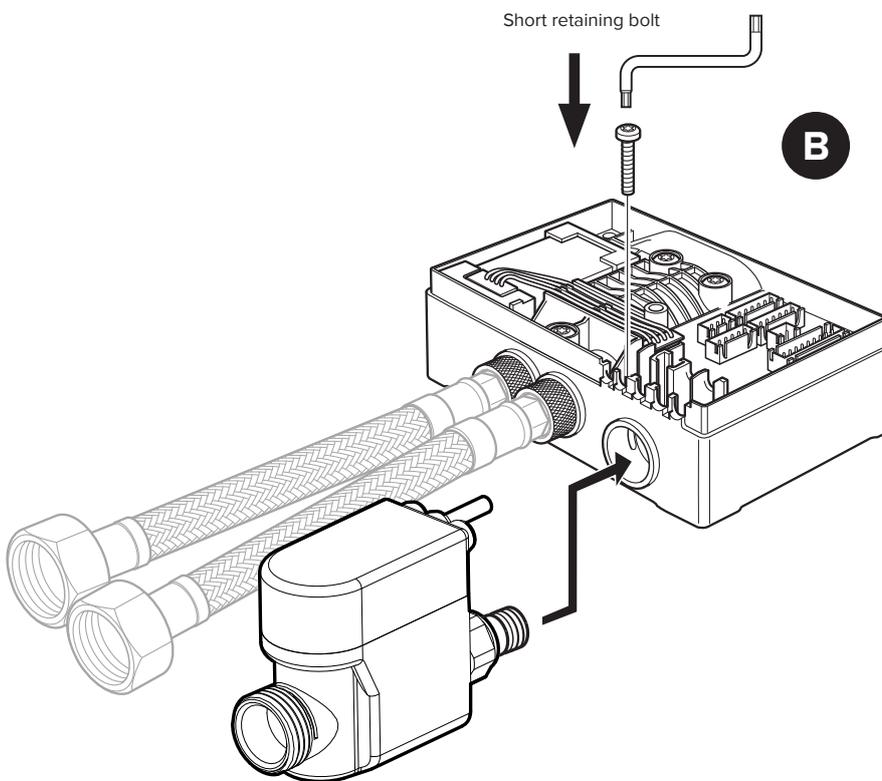


## 8 Connect flow controller unit



**A**

Screw supplied 15mm BSP fitting to the correct male 15mm BSP of the flow controller on the side of the exposed cable. Ensure washer is fitted between the two.



**B**

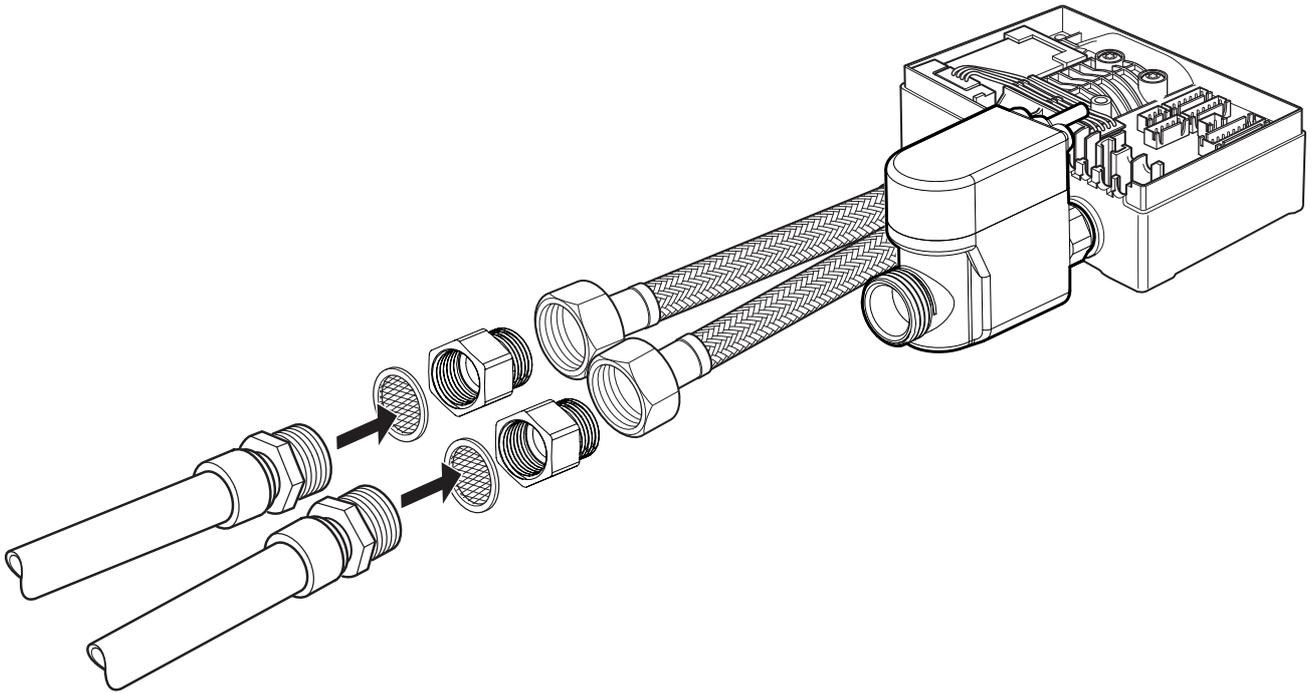
Push flow controller unit with outlet fitting back into TLC temp flow and fit small retaining bolt with torx screw driver supplied.



**ADVICE:** Push in firmly!

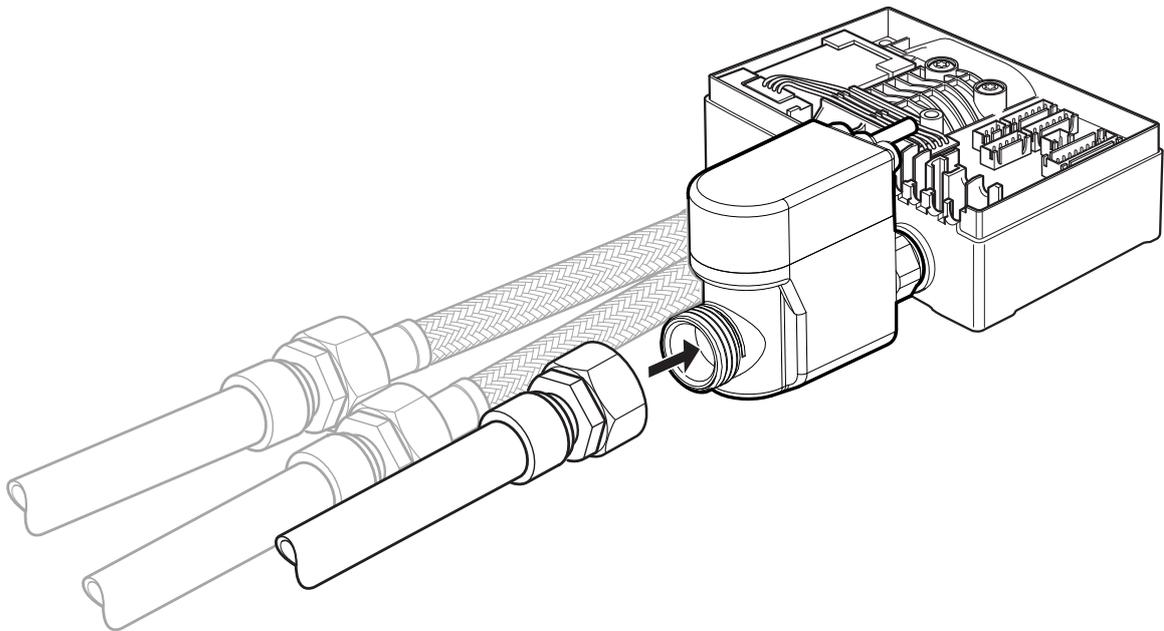
## 9 Connect hot and cold water supply

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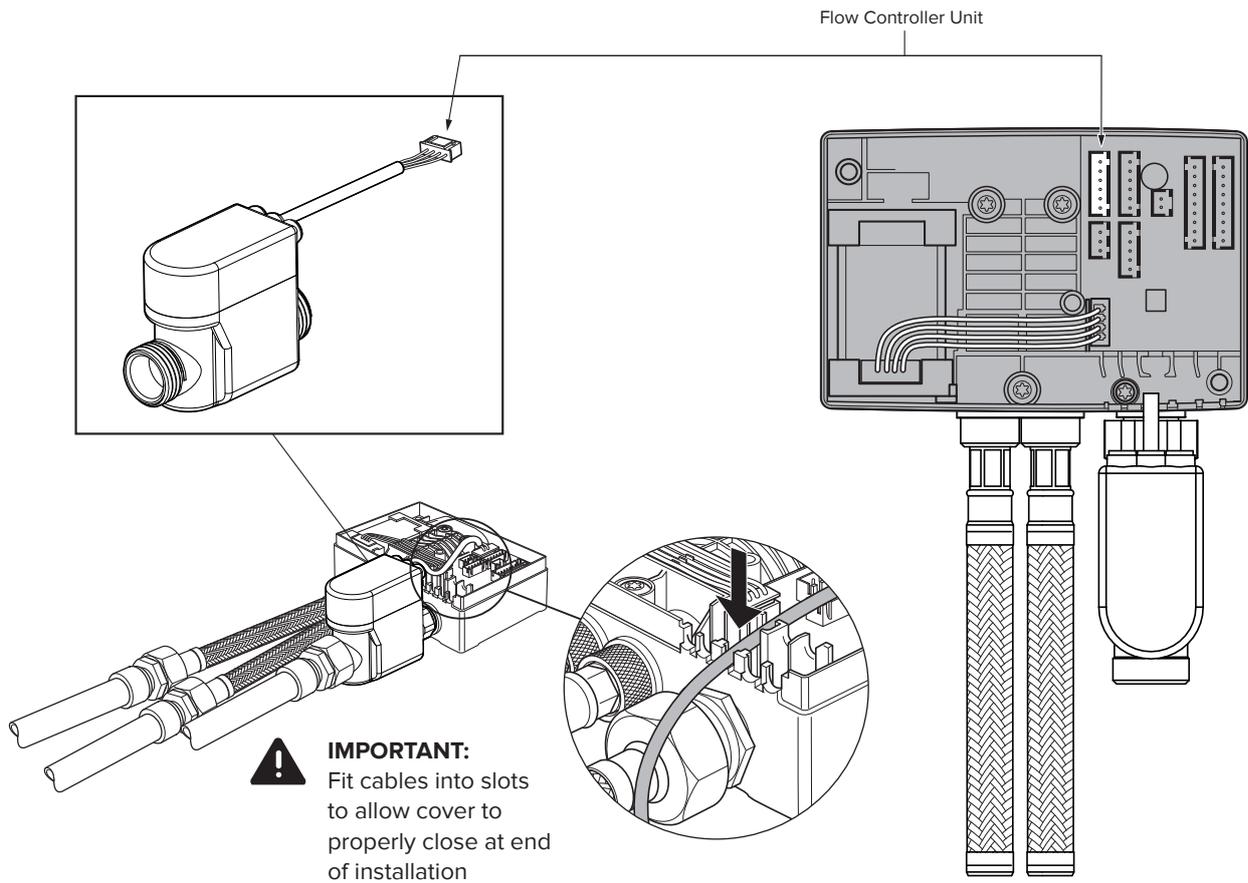
## 10 Connect outlet pipework

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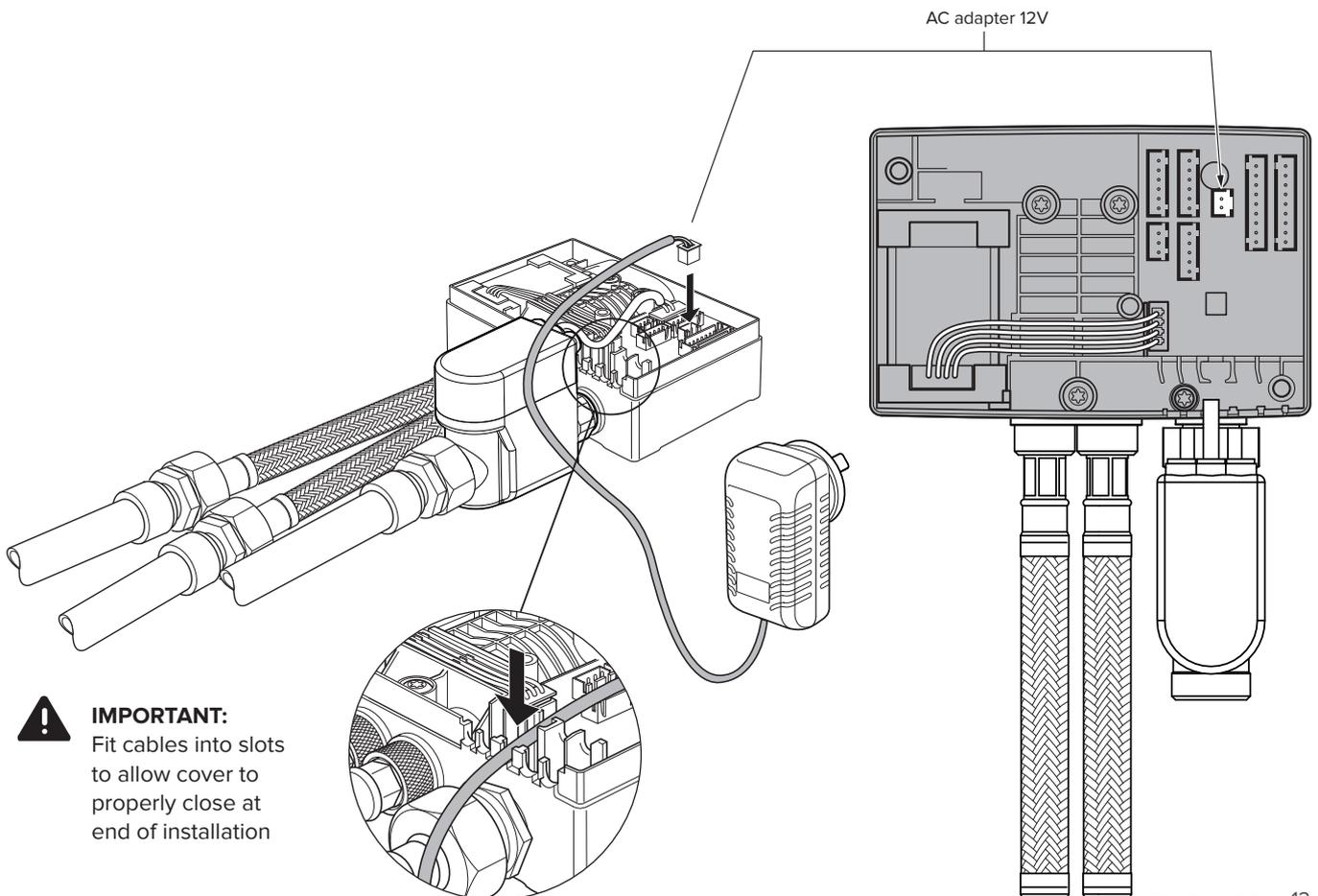


**IMPORTANT:** Flush the pipework before connection

## 11 Plug flow controller into RS-232 port



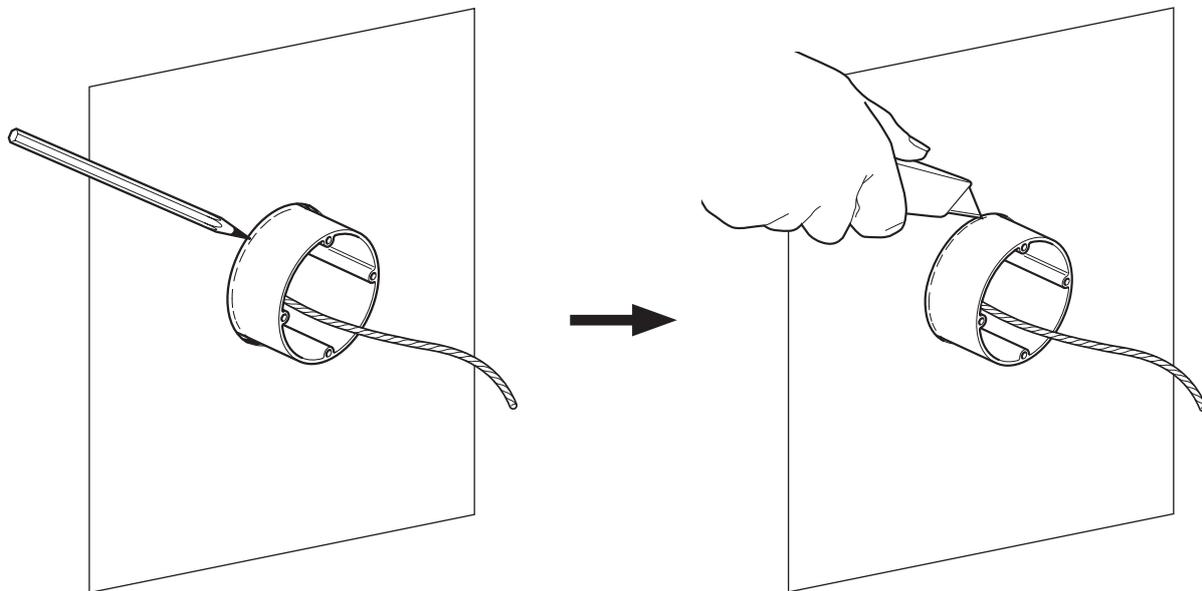
## 12 Plug AC adapter cable



## INTERFACE WHEEL FINAL FIT INSTALLATION

### 13 Fit off - after final wall lining is installed

Draw a line around the collar, **flush** with the wall. Cut down the collar as marked.



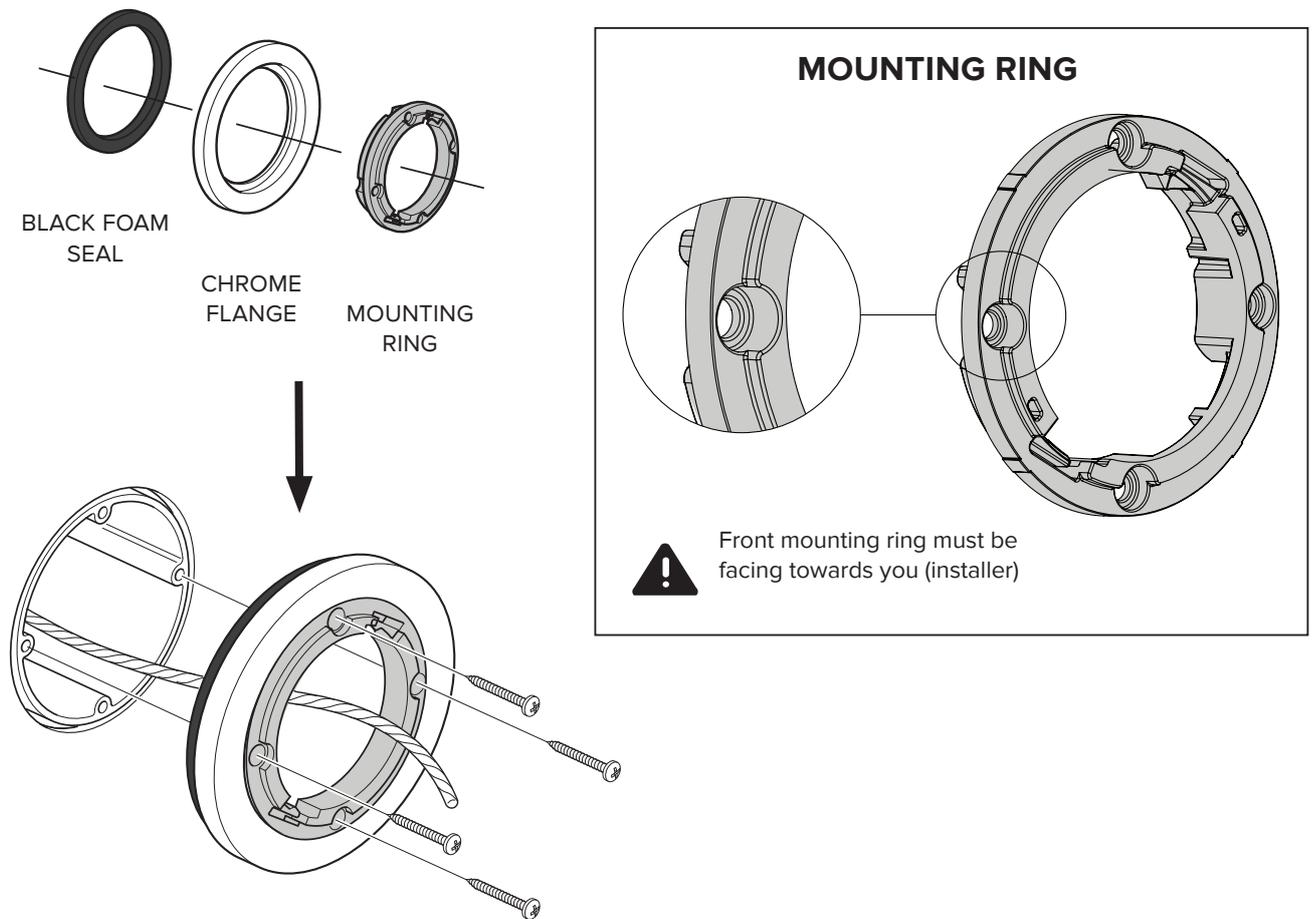
Final wall lining

Final wall lining

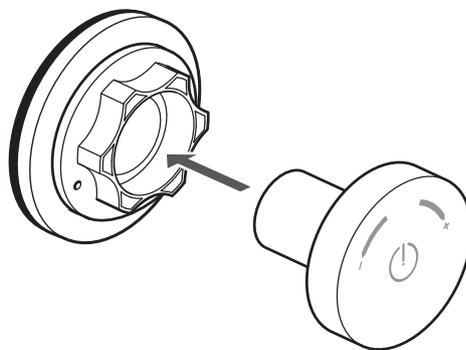
## 14 Assemble/attach the chrome flange

Attach the back plate/adaptor ring to the control fixing bracket using the 15mm screws supplied.

**Note:** The black adaptor ring must be **flush** with the brass back plate.



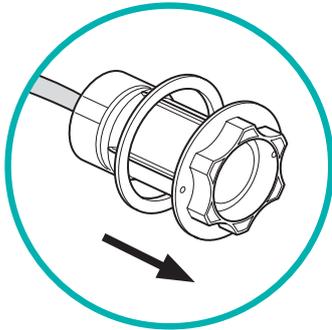
## 15 Remove knob



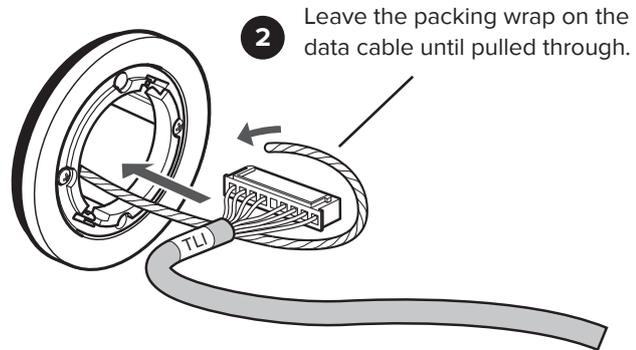
## 16 Feed TLI-W body cable through to the chrome flange assembly

First feed the data cable through the white foam seal onto the TLI-W body.  
Feed the cable through the chrome flange assembly.

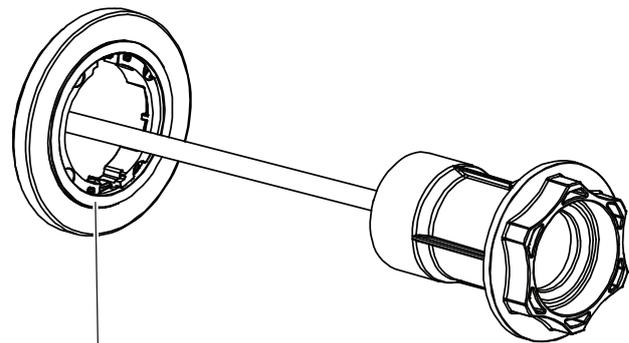
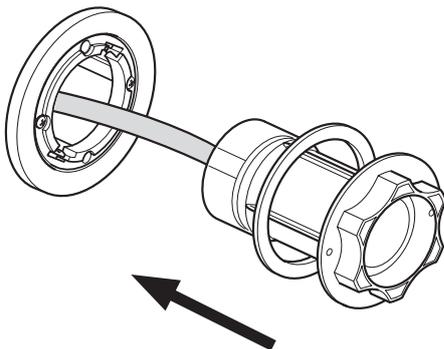
**Note:** Attaching a length of string or wire to the control data cable will make it easier to pull the cable through to the TLC temp flow.



- 1** Fit white foam seal through cable to end of interface wheel.  
**Note: Do not stretch white foam seal**



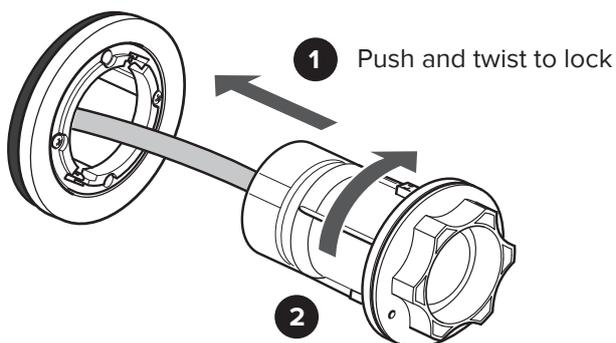
## 17 Insert white foam seal onto mounting ring



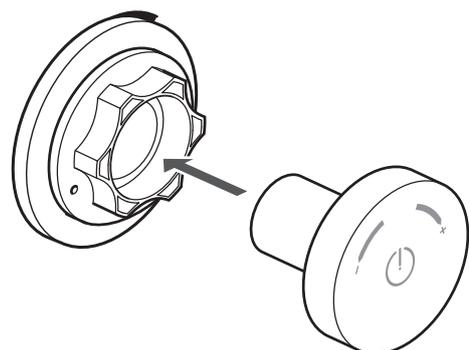
Position white foam seal

## 18 Turn TLI-W body clockwise to lock in position & reapply TLI-knob

Position the TLI-W body into the chrome flange assembly and turn clockwise to lock in position.  
Push fit the TLI-W knob onto the TLI-body.

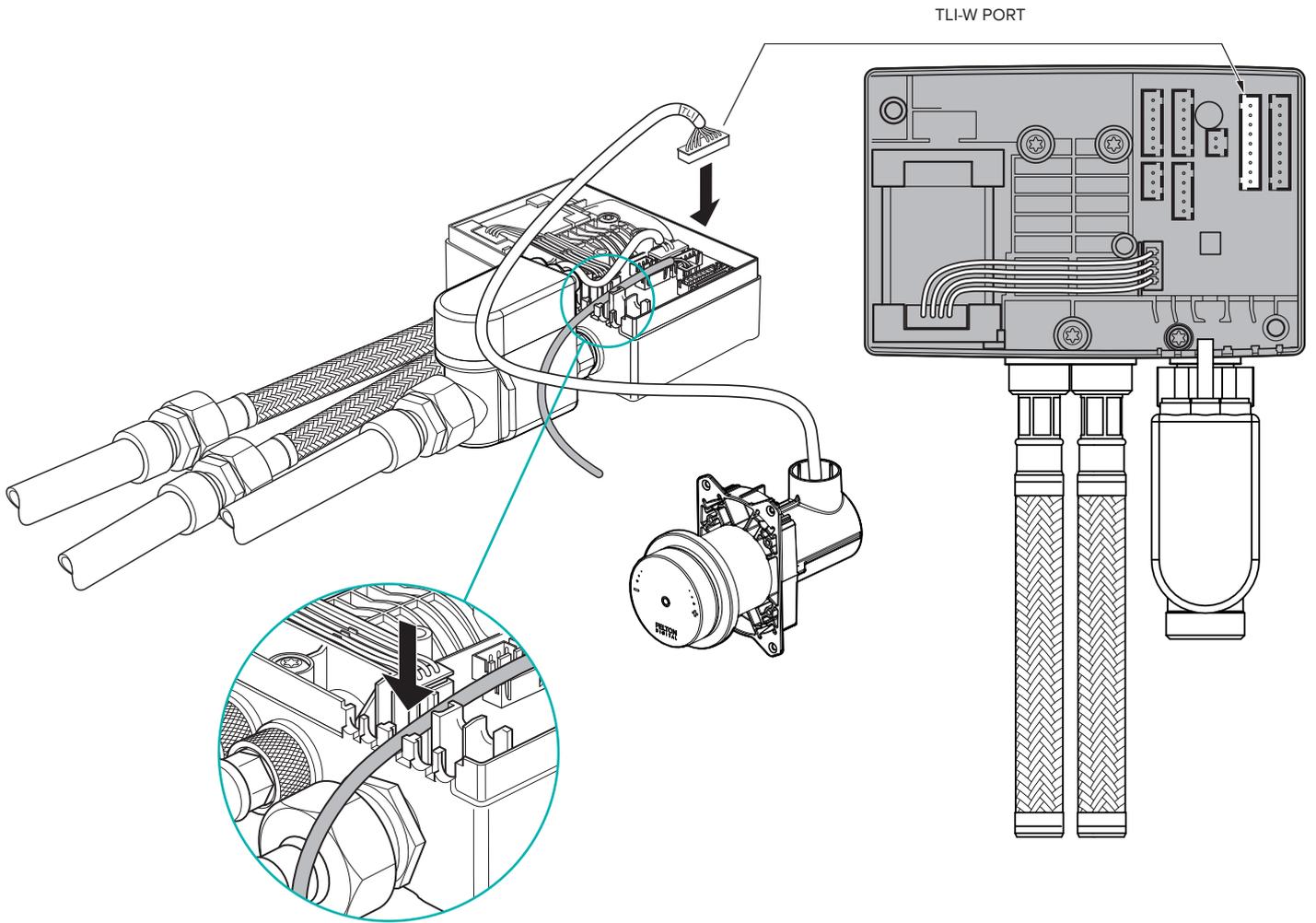


**2**



INSERT

19 Connect data cable from interface wheel assembly to TLC temp flow

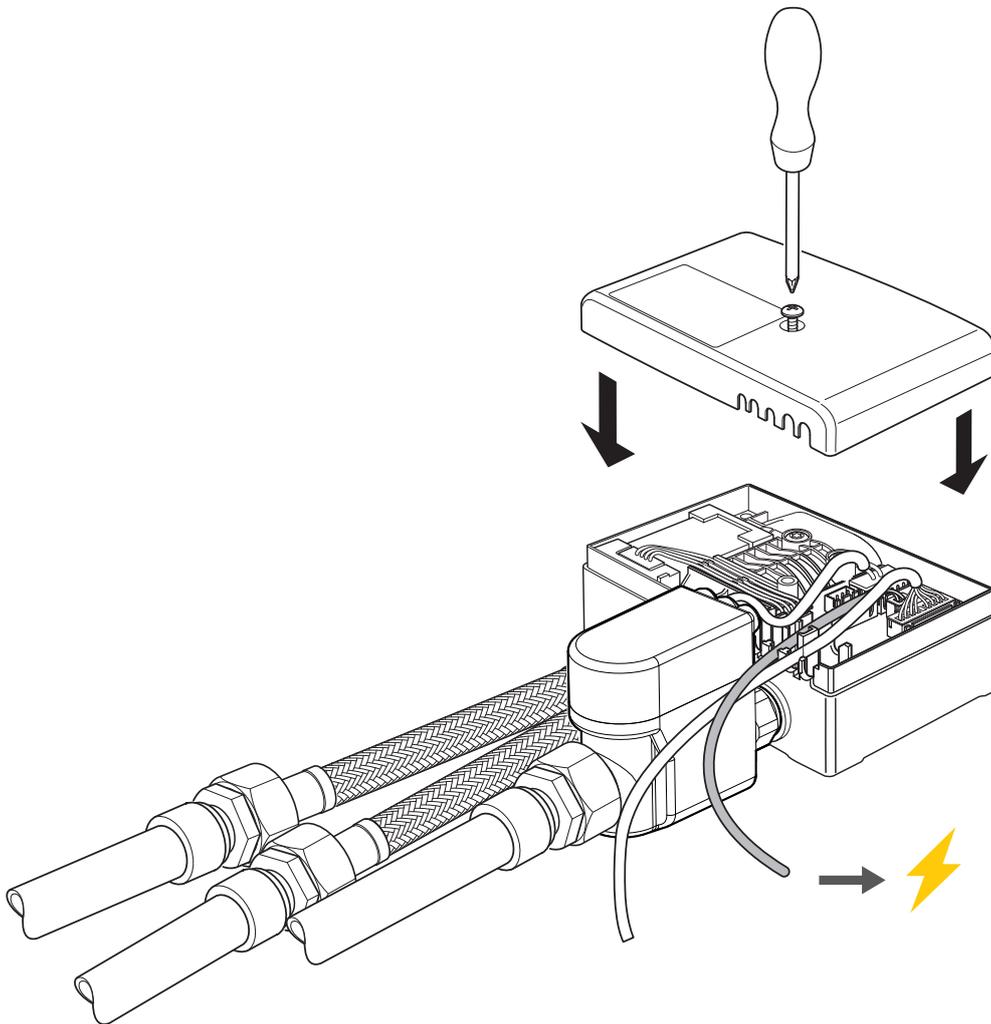


## 20 Re-fit cover and connect TLC temp flow to the mains



**IMPORTANT:**

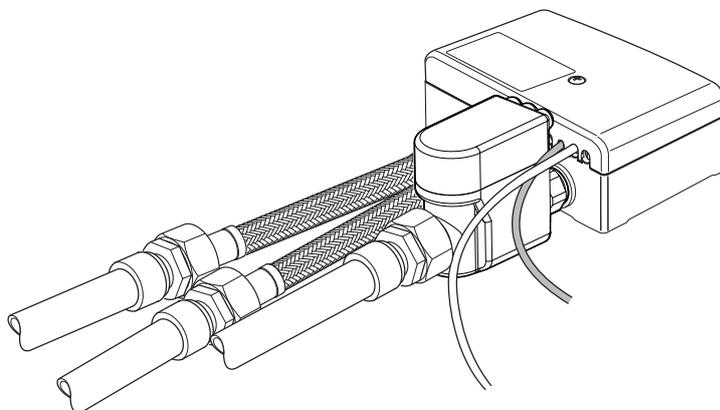
Fit cables into slots to allow cover to properly close at end of installation



**IMPORTANT:** Electrical supply must be installed by a qualified electrician.

## OPERATIONAL TEST

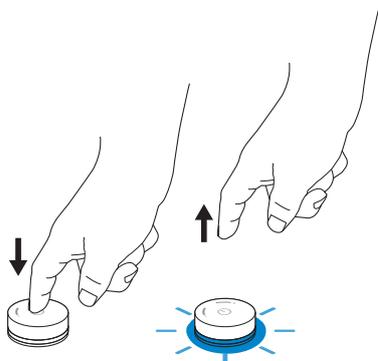
- 1 Ensure that the TLC temp flow advanced shower unit is installed correctly and connected to the power supply.



The installed system should be operated to check for leaks.

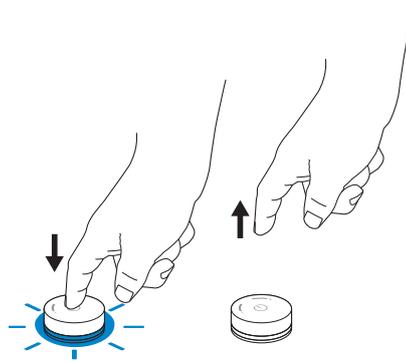
### 2 Open

Push the **Smartflow™** Interface once.  
The TLC temp flow advanced shower unit opens  
and the LED illuminates.



### 3 Close

Push the **Smartflow™** Interface again.  
The TLC temp flow advanced shower unit closes and  
the LED goes off.



## SMARTFLOW™ TROUBLESHOOTING

| ISSUE  | PROBLEM   | TROUBLESHOOT   |
|--|---|--|
| <b>The device does not function (i.e. the LED light is not on)</b>       | The AC adapter is not connected to the mains                                    | Connect device to the mains power                              |
|  | Mains power failure   | Check household fuse box                                       |
|  | The AC adapter is not connected to the TLC temp flow                            | Follow <a href="#">Step 12</a> on Smartflow Installation Guide |
|  | TLI-W unit is not working   | Follow <a href="#">Step 19</a> on Smartflow Installation Guide |
| <b>The water temperature does not match the indicated display</b>        | Hot and cold water connections reversed   | Check connections are correct                                  |
|  | Hot or cold water stop valve closed or only half opened                         | Fully open both stop valves                                    |
|  | Kink in supply hose   | Check connection hoses   |
|  | Connecting pipe blocked   | Flush pipes and clean filter                                   |
|  | No hot water  | Check hot water tank and instantaneous connections             |
|  | Temperature sensor defect   | Carry out function «Diagnosis Test» on Smartflow User Guide    |
|  | Difference in supply pressure between hot and cold water is greater than 100kPa | Balance pressure to eliminate difference                       |
| <b>Constant flow of water</b>  | Unit will not turn off  | Carry out function «Diagnosis Test» on Smartflow User Guide    |
| <b>The water shuts off before maximum run time has been reached</b>      | Flow sensor is defective  | Carry out function «Diagnosis Test» on Smartflow User Guide    |
| <b>The device is working but has no water flow</b>                       | Motors are not calibrated   | Carry out function «Diagnosis Test» on Smartflow User Guide    |
|  | Stop valves closed  | Open stop valves fully   |
|  | No water supply   | Restore water supply   |
|  | Kink in supply hose   | Check connection hoses   |
| <b>Interface flashes green</b>   | Cleaning mode active  | Wait 45 seconds or deactivate via menu                         |
| <b>The TLC Temp Flow is damp or wet</b>                                  | Inlet and outlets of TLC temp flow are not properly sealed                      | Inspect all connections, reseal if necessary                   |
| <b>The TLI wheel does not respond to temperature and flow adjustment</b> | The interface elements are connected incorrectly                                | Follow <a href="#">Step 19</a> on Smartflow Installation Guide |
|  | The interface is defective  | Carry out function «Diagnosis Test» on Smartflow User Guide    |
|  | The knob is not running smoothly  | Remove and clean knob  |

If issue persists or not covered by the above troubleshooting, please contact our Felton Technical Team on 1800 792 760 or [enquiries@feltontapware.com.au](mailto:enquiries@feltontapware.com.au)



## **WARRANTY, MAINTENANCE & CARE**

5-year warranty applies to all **Felton Digital** branded products including the electronic hardware and its components.

Where products are promoted as having a “5-year warranty”, Felton Industries Limited guarantees the electronic components of these products (excluding batteries) to be free from defects in materials and workmanship under normal installation, use and service for a period of five (5) years from the date of purchase. Fair wear and tear is expressly excluded.

This warranty is effective for five (5) years from the date of purchase and covers electronic replacement parts only (excluding batteries) and 2 years from the date of purchase for plumber’s labour relating solely to repairing or replacing the Hardware, provided the product is installed by a registered plumber. You must retain proof of purchase of the Hardware (such as an invoice or receipt) and proof of installation by a registered plumber and provide these to Felton on request.

This warranty is for manufacturing defects only and does not cover any damage to product due to abuse, negligence or improper installation. This warranty is given on the understanding that the product is installed by a registered plumber and operated according to Felton’s installation guide and the Australian/New Zealand standard AS/NZS3500. This warranty is provided to persons who are a “consumer” under the Consumer Guarantees Act 1993 only and for use in domestic/residential dwellings only (not for commercial use).

**This warranty is subject to any other rights or remedies that you may have under the Consumer Guarantees Act 1993 (or any other applicable legislation) and to Felton’s Terms of Trade.**

This **5-year warranty** does not cover:

- 1) any consumable items (e.g. batteries, filters, installation fittings) supplied with the products.
- 2) damage, problems or unsatisfactory performance caused to the electronic hardware by:
  - a. Faulty or incorrect electrical wiring, incorrect power supply, voltage fluctuations, over voltage transient spikes or electromagnetic interference not originating within the electronic hardware.
  - b. Incorrect or poor installation or application
  - c. Operation at conditions outside the operating conditions specified in the Felton Digital technical or sales data applicable to that electronic hardware.
  - d. Reconfiguration of the digital interface by the user – this is considered a service not a warranty.

For technical assistance please ring: 1800 792 760 or [enquiries@feltontapware.com.au](mailto:enquiries@feltontapware.com.au)





**FELTON AUSTRALIA PTY LTD**

PO Box 4191, Burwood East, Victoria, Australia 3151  
1800 792 760



@feltonaware



/feltonltd



/FeltonIndustriesLimited



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