



# Installation Guide

## **CIST19-PNEU-2 Pneumatic Control WC Flush Cistern**

(Shown with pneumatic button which is supplied separately)



AS 1172.2



## Contents

### 1 x Cistern Including:

- ✓ 1 x Flush Pipe 500mm length
- ✓ 1 x WC flush pipe seal
- ✓ 2 x Cistern support brackets plastic
- ✓ 1 x Button air pump
- ✓ 1 x Air tube (2.5m length)
- ✓ 2 x Wall fixing brackets (Metal)
- ✓ 1 x Cistern cover plate.

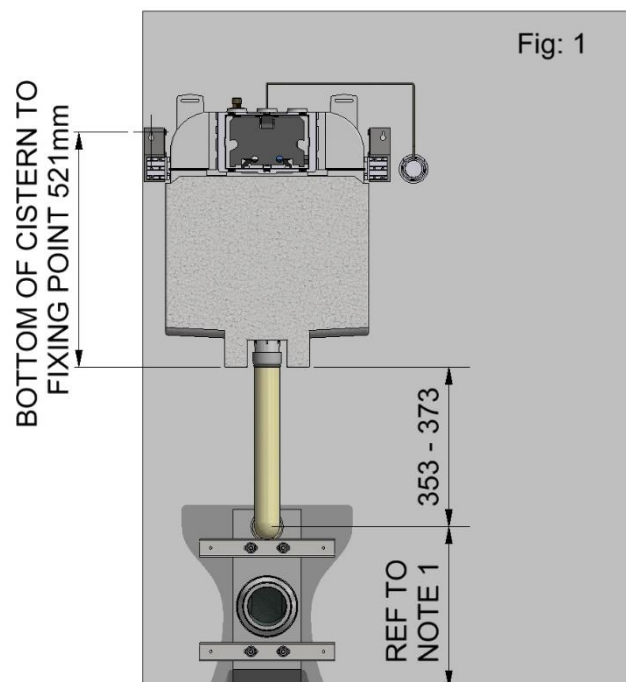
**(Note: The stainless steel push button models CIPB11-B, CIPB12-B, CIPB13, CIPB13-FF, CIPB14 & CIPB15 are sold separately)**

## 1. Fitting Instructions

The wall construction must be suitable to support the cistern weight when full: 10kg

**Refer to the manufacture instructions packed with the cistern in conjunction to following these instructions.**

- Assemble the support & wall brackets & then fit them to the cistern as per fig 3.
- Mark wall position so cistern is vertically central to wc pan & at a height as shown on fig 1.
- Mark positions for cistern screw fixing points through each wall bracket. Select appropriate wall fixings for wall type, screws of size 5mm x 40mm long with a round head are recommended. Drill holes & fit cistern to wall.



**NOTE 1: The dimension to the flush inlet from floor level will vary according to the model of the wc pan. Refer to the drawing of the wc pan for the correct dimension.**

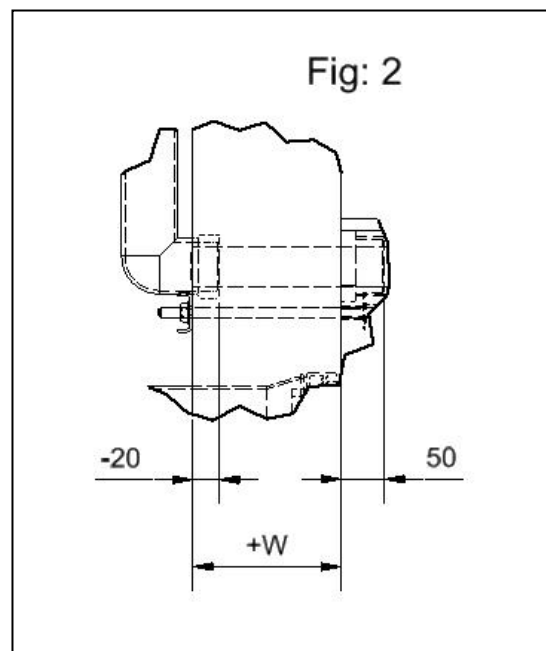
## 2. Fitting the Flush Pipe:

A 500mm length flush pipe 500mm is supplied for the horizontal connection between the vertical cistern flush pipe and the wc pan. If required cut the pipe to reduce the horizontal length into the back of the wc pan. Mark the position for the cut allowing 50mm of pipe into the wc pan, plus the wall thickness ( $W$ ), then minus 20mm as shown on fig 2. Note that if the wc pan is fitted with an extension then the extension length should also be included in calculating the required length. Cut the pipe using a fine tooth panel saw to ensure a straight clean cut,

(The use of a hack saw is not recommended).

**NOTE: Ensure cut of pipe is made clean & straight & all burrs are removed.**

To fit the flush pipes firstly push the vertical pipe onto the outlet spigot of the cistern and then fit the horizontal pipe into the socket of the vertical pipe. Fit the wc pipe seal onto the end of horizontal pipe (Note correct seal orientation) & then press the pipe with seal into the WC pan fully up to the barrier stop. The polystyrene pipe cover can then be fitted to the vertical pipe, again cut the cover with a fine tooth panel saw should its length require shortening.



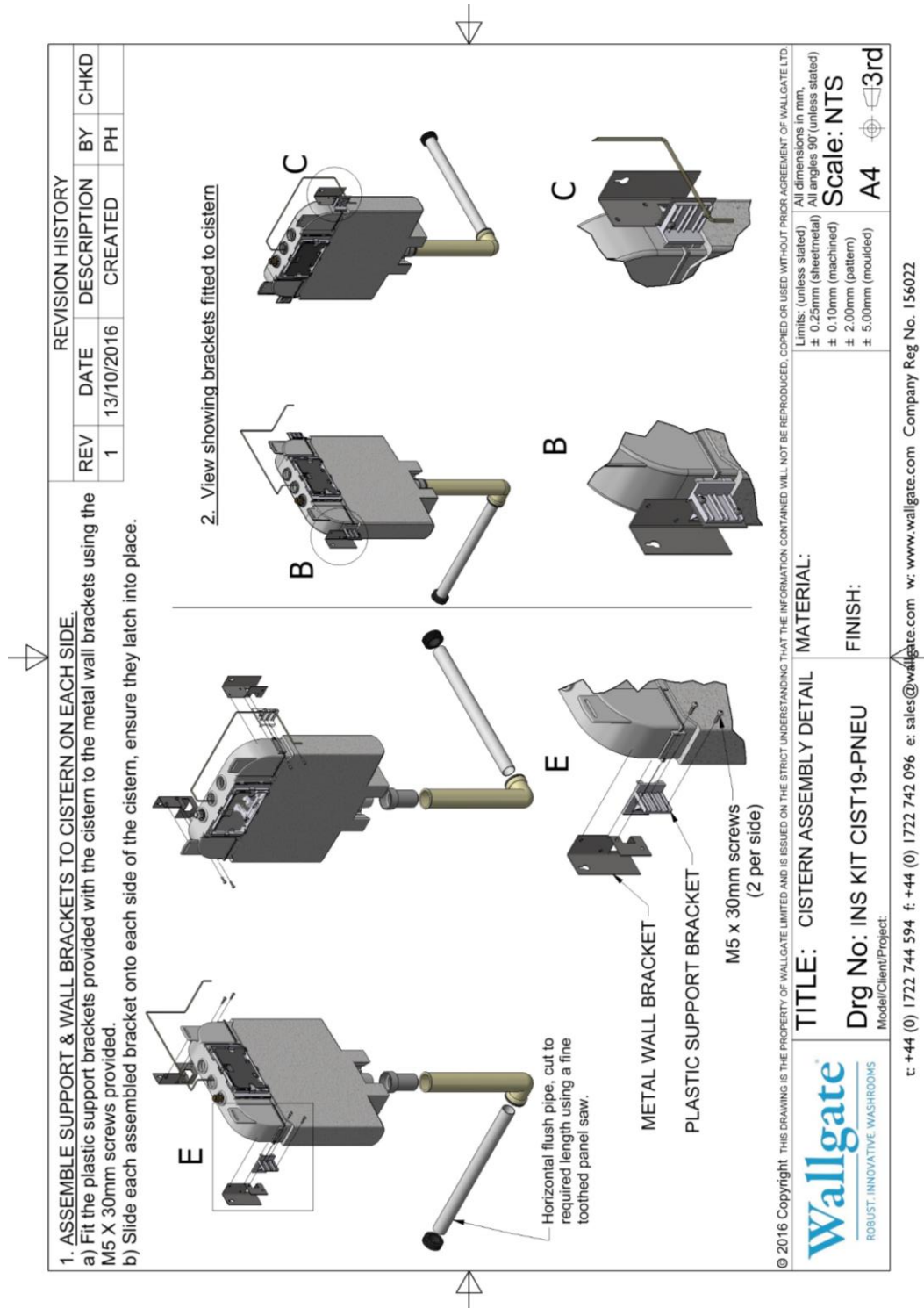


Fig: 3

### 3. Water Supply Connection to Cistern Fill Valve:

**NOTE:**

- **Water supply dynamic pressure: 0.1 – 14 Bar Dynamic.**
- **Maximum static pressure: 20 Bar.**
- **Flush out water pipes to remove building debris and air locks prior to connecting it to the cistern fill valve.**

Assemble the water inlet / stop tap to left hand aperture on top of the cistern as shown on instruction 2 of the manufacturer instruction sheet packed with the cistern. Connect a cold water supply to the inlet connector (Size ½" BSP (M)). The inclusion of a service stop tap in the supply pipe close to the cistern is recommended.

### 4. Connecting Air Tube to Cistern Bellows:

The clear air tube should be connected to pneumatic cistern left hand bellow spigot, routing the tube through one of the top knockouts. Fig 4.

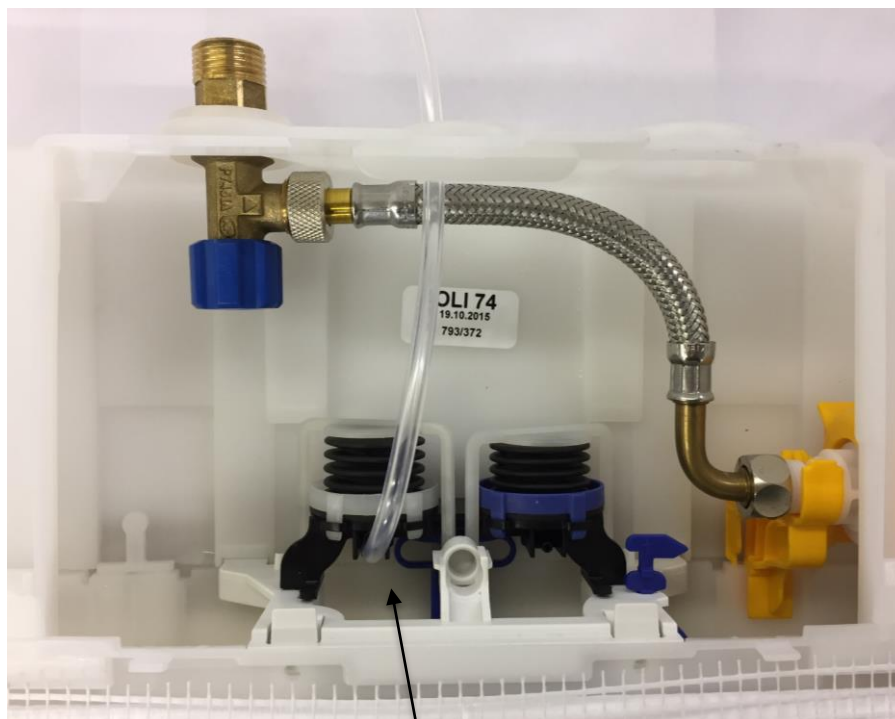


Fig: 4

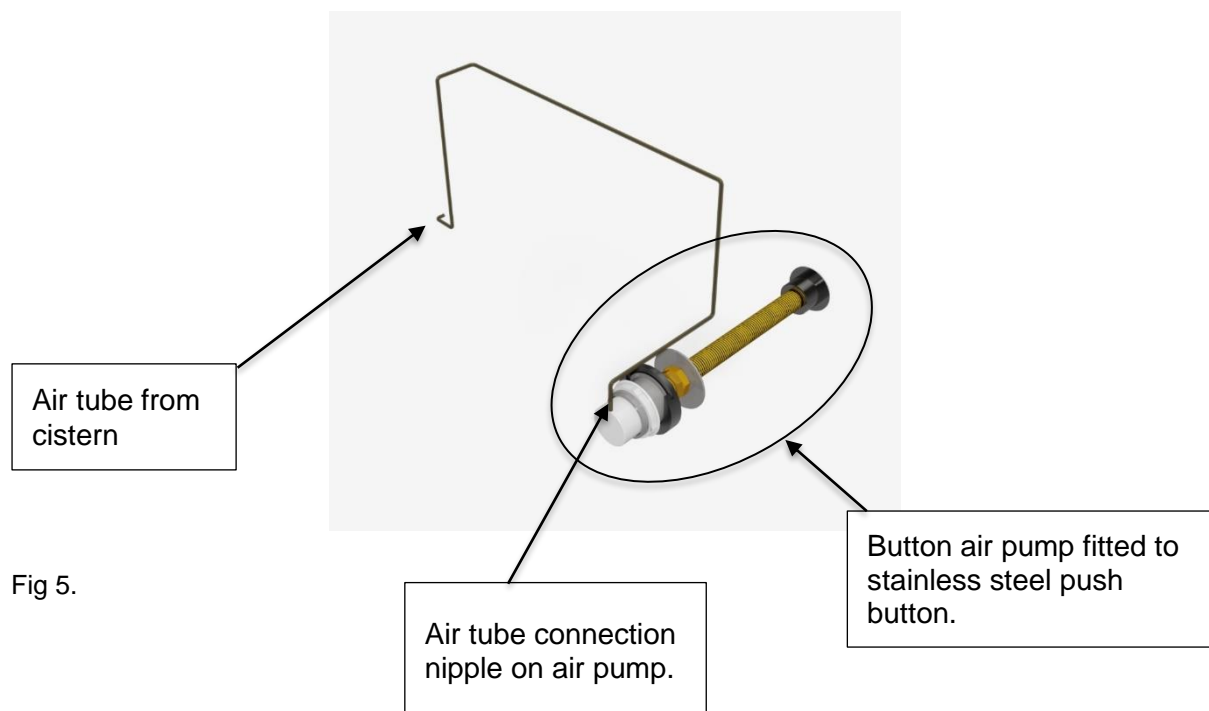
Connect clear air tube as shown.

## 5. Pneumatic connection to push button:

The cistern flush valve is pneumatically operated by a Wallgate stainless steel push button fitted with the cistern air pump & adapter, the stainless steel push buttons are sold separately from the cistern. See typical installation Fig 7.

Various options of stainless steel finger push and palm push buttons are available: CIPB11-B to suit 0-50mm wall, CIPB12-B to suit a 25-190mm wall, CIPB13-FF front fix palm push, CIPB14 palm push to suit 0-50mm wall or CIPB15 palm push to suit a 25-190mm wall.

The push button can be positioned as preferred but consideration should be given to ensure it is easily accessible for children and adults. A  $\varnothing 35\text{mm}$  hole is required in the wall to fit the push button. Connect the air tube to the nipple on the air pump as shown on Fig 5.



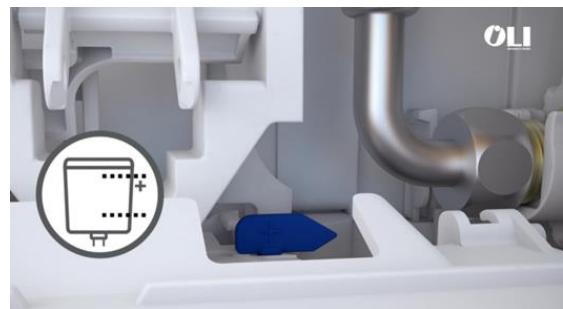
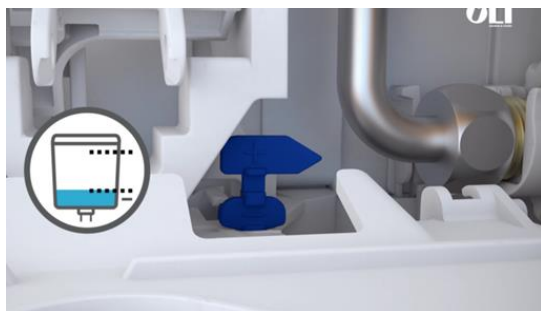


## 6. Flush Volume Positions:

By default, the cistern is set to give a 6 litre flush as supplied. This can be adjusted as follows, **note that the default setting (6 litres) is the max flush for compliance with UK water regulations:**

Setting the blue lever to the minus (-) position gives a 6 litre flush.

Setting the blue lever to the plus (+) position gives a 7 litre flush see images below. (Fig: 6).



## 7. Commissioning the Installed Cistern:

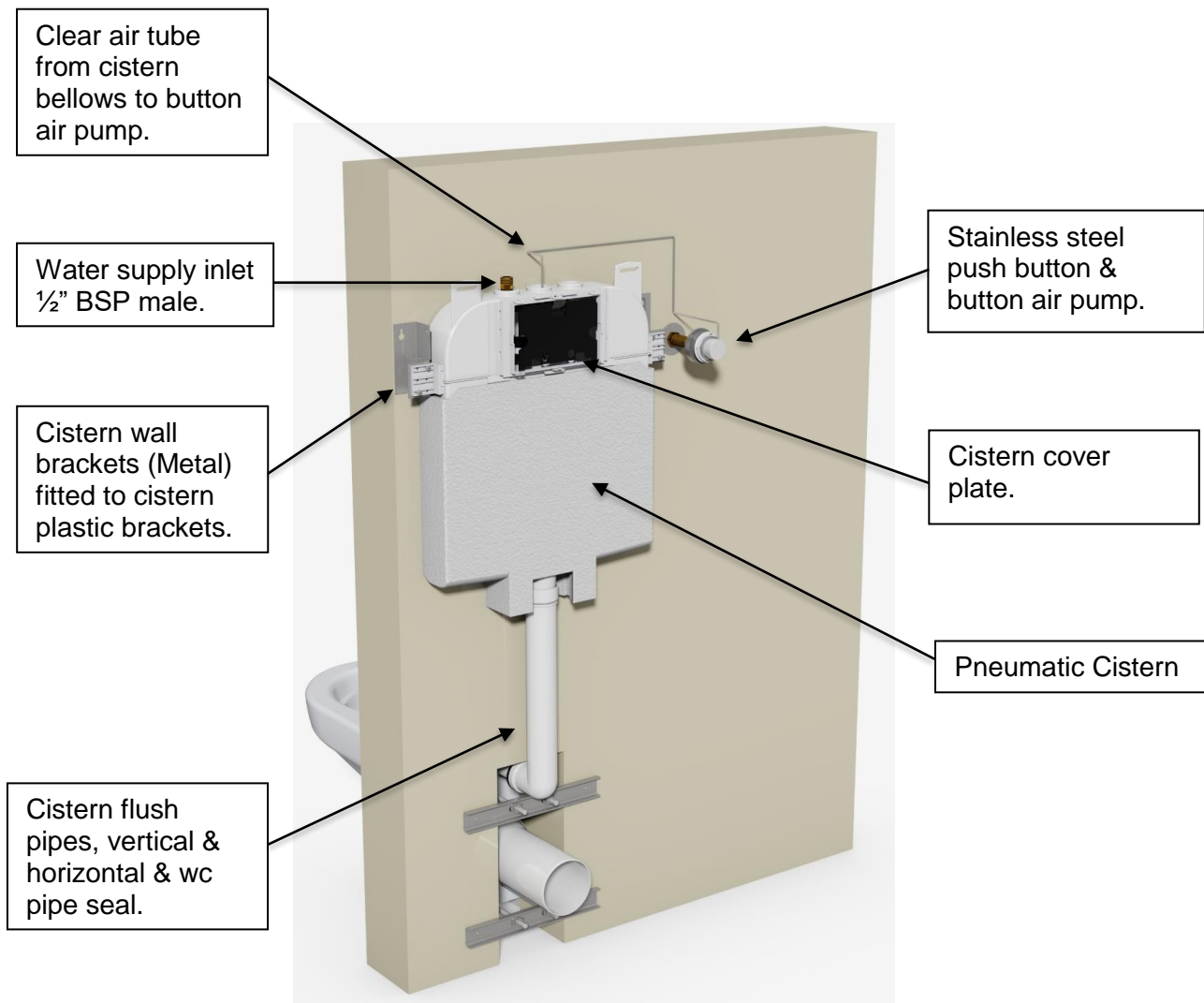
### NOTE: for chemical water treatment.

If the water system has been treated with chemical dosing, ensure the system is thoroughly flushed before fitting this product. Concentrated chemicals in dead legs can damage the product & result in failure. If the water is treated with Chlorine Dioxide (ClO<sub>2</sub>), ensure concentration levels do not exceed a solution of 100 ml of domestic chlorine-based bleaching agent, consisting of up to 5% sodium hypochlorite (NaClO) and anionic surfactants to every 900 ml of water.

To operate the wc flush:

- Turn ON the cold-water supply & check that there are no leaks.
- Check that the cistern has filled.
- Activate a flush by pressing on the pneumatic button to depress it fully. Check the flush operates correctly. Repeat the flush three times to ensure consistency. Note that the default flush volume is 6 litres.

Fig: 7 (Typical installation layout)



**TROUBLE SHOOTING:** - If the cistern does not deliver the expected full flush: -

1. Ensure that the flush button is fully depressed when operating the flush.
2. Check the air pipe is connected as shown above and that the blue fill level lever is in the correct position (shown in section 6)
3. Check the air pipe connections for tightness between the button air pump and cistern air bellows.

**Notes:**

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