BRITEX INSTALLATION NOTES

FFV-E1-P WC Electronic Single Button Flush Valve with Plate

These Instructions are for In-Duct and In-Wall Installations. Please refer to individual product documentation for Britex products specifically incorporating pre-plumbed FFV flush valves.



The Britex FFV-E1-P Flush Valve is a mains powered (transformer 240V to 12V) Electronic Single Button Flush for in ceiling or in-duct installation.

Before you start installing read the complete manual first

FUNCTION

A user pushes the flush button to activate the flush. A new flushing cycle can only be activated after the previous cycle has finished. Depending on the available line pressure the time has to be manually adjusted on the controller module to set the required flush volume. To prevent misuse and enhance water saving the controller module will allow only a maximum of 6 flushes per minute. Once the valve has been flushed 6 times within one minute the controller will not allow another flush for 45 seconds.

BOX CONTENTS

The Britex FFV-E1-P Single Button Flush Valve consists of the following components:

- 1 x TM-01 Electronic dual flush module
- 1 x TR-1 Transformer 240V to 12Vdc
- 1 x E45 Electronic Flush valve
- 1 x Flush actuator button
- 1 x 3m extension cable for actuator buttons
- 1x Installation Instructions



SAFETY PRECAUTIONS

1) Britex FFV-E1-P Electronic Flush Valve and its components are for indoor use only.

2) Install the FFV-E1-P Electronic Flush Valve and its' components only in a dry environment .with an ambient temperature between 5 and 40° C.

3) When performing any work on the FFV-E1-P Electronic Flush Valve or its' connected components switch off the power and disconnect the transformer from the power outlet.

4) Isolate the water supply to the valve.

5) Prior to removing parts or disconnecting the flush valve, relieve the water pressure from inside the valve. The pressure can be relieved by opening the relief on the body of the valve as shown in Fig.3-B. Leave the relief valve open until all water has drained before closing.

6) The transformer and the electronic module should be installed as close as possible to each other and at the greatest distance possible, away from the flush valve.

7) Replace faulty components only with original components.

8) Observe all applicable electrical, plumbing and building regulations and standards.

9) Some equipment may radiates heat do not insulate any supplied equipment.

10) All supplied components should only be used for the purpose that they have been designed for.

ROUGH IN

1) Make sure during the planning phase that the proposed installation location for the flush pipe and flush valve is obstruction free (do not install additional bends along the flush pipe other than the bend on the bottom of the flush pipe). It is recommended to install acoustic insulation to pipe work and flush pipe in sound sensitive areas.

2) Provide a 240 V power point inside the ceiling space or service duct. The cable length of the transformer is about 1.5m. (refer to point 4 in the Safety Precautions above).

3) Install the TM-01 electronic module close to the power point (refer to point 6 in the Safety Precautions above).

4) Determine the size and install the water supply pipe to the requirement of the installation (refer to the relevant standards AS 3500.1 section 10). Note: In most cases plastic pipes require up-sizing! Install an appropriately sized ball valve as a stopcock (not supplied).

5) Prior to installing the flush valve, flush all supply lines first.

6) Install the flush valve and the flush-pipe (40 mm DWV not supplied) in the required location (see fig.3). Insert the square cut flush pipe into the compression joint on the bottom of the flush valve and tighten the nut.

7) Ensure that all supply lines and flush pipes are adequately secured.

8) Test all plumbing connections for leaks. Open the relief valve (see fig.3) to bleed air out of the valve. When the tests are finished close the stopcock and relief valve.

9) Install the supplied extension cables for the actuator buttons reaching from the TM-01 module to the installation location of the buttons and secure the cable ends. It is recommended to install the cables into a cable-duct. Depending on the actuator button provide appropriate penetrations within the wall sheeting (see also installation instruction for the buttons). Temporarily connect the flush valve to power and test the valve several times and check for leaks on the flush pipe and flush valve.

10) Install the individual actuator buttons or button and face plate as per button installation instructions.

11) For in-ceiling installation make provisions for a ceiling access panel (see fig.1) to be able to service the flush valve.

12) Carry out all installation work as required by the pan supplier.

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fig.3

rate of the valve turn screw with a flat screwdriver in (clockwise). The factory setting is maximum (screw all the way out).

B. To test and bleed (open) the valve without the power connected turn lever 90 degrees clockwise.

C. Insert the 40mm DWV flush pipe into the compression connection on the bottom of the flush valve and tighten the nut. Also install pipe clips to secure the flush pipe.

FIT OUT

1) Install the actuator button and face plate as per button installation instructions.

2) Connect the activator button to the extension cable that had been previously installed.

3) Connect the extension cable from the button and the solenoid valve to the TM-01 module (see also fig.5).

4) Plug the transformer lead into the TM-01 module (see also fig.5).

5) Plug the transformer into the power point and switch on the power.

6) Adjust the flush time settings on the TM-01 module (see Fig.5) to the correct flush volume according to the requirements of the toilet pan (refer to the pan suppliers instructions).

7) Temporarily connect a measuring bucket to the end of the flush pipe.

8) Open the flush valve stopcock and activate the full flush and compare

the collected volume of water with the required flush volume.

9) If too much water is discharged shorten the flush time. With a small screwdriver turn the relevant dial on the controller anti clockwise. If not enough water is discharged extend the flush time. With a small screwdriver turn the relevant dial on the controller clockwise (see fig.5).

Caution, do not force the potentiometer dial beyond the min. setting.

10) After testing install the actuator button and face plate into the prepared wall penetration as per button installation instructions.

11) Install the sink.

12) Activate the valve several times. Check on the valve that there is no water spillage on the air brake. It is possible that the flush valve will squeak for the first few operations. It is caused by trapped air inside the valve. The squeaking should stop after a few flushes. Note: If the flush valve is activated more than 6 times within one minute it will stop flushing for 45 seconds.

TROUBLE SHOOTING

Α. Unit will not flush when pressing button:

Check that the power is switched on, all cable connectors are plugged in and the water is turned on.

В. Water is running constantly:

Turn lever in fig.3 B a quarter turn anti-clockwise.

Unit stopped flushing after C. several activations.

The controller has a build in function that temporarily (45 sec) suspends

further flushing once the unit has been flushed more than 6 times within a minute. Wait for 45 seconds, the unit will reset itself or unplug the transformer and re-connect after a view seconds.

D. Too much flush volume

- Shorten flush time see Fit out 7 - 9.

- Turn screw in fig.3A anti-clockwise to slow the flow.

Not enough flush volume Ε.

Extend flush time see Fit out 7 - 9.

HYDRAULIC CONDITIONS REQUIRED AT THE FLUSH VALVE.

Min. flow pressure: 250 kPa.

Min. flow rate at the valve 1.4 l/sec

Max. pressure to AS 3500.1 500 kPa

Min. connecting pipe size from the ring main to the valve (see below**) 25mm copper or equivalent. 25mm plastic pipe is not the equivalent to 25mm copper. Plastic pipes have to be appropriately up-sized.

Max. Water temperature 40° C

The flush valve is designed to operate off a water supply equivalent to potable water standards.

**Refers to the minimum connection pipe size to any valve branched off the ring main pipe providing that the above required technical

specifications can be met. Pipe work to the valve fixture must be sized to and installed to water service rules and regulations (AS/NZS 3500.1 - section 10), local regulations and simultaneous demand requirements.

To ensure proper sizing of the pipe work for the valve it is recommended to engage a qualified hydraulic designer.



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