

# Installation Instructions

## 2 & 3 Port In-wall Diverter

### Model: I-617

# NEWPORT BRASS.

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We Recommend Installation by a Professional Plumbing Contractor

**Note:** Use plumbers tape or equivalent to seal all threaded port joints. This valve is designed to fit in a 2" X 4" stud wall (or thicker) installation. Use stem extension kit #I-384 (sold separately) if valve installed is too far away from the finished wall.

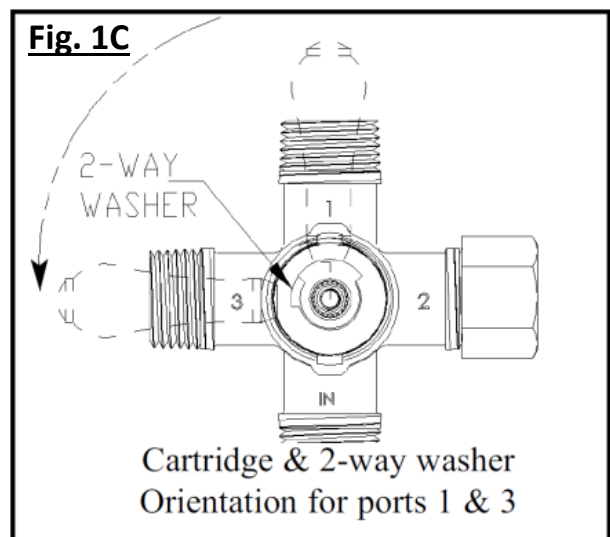
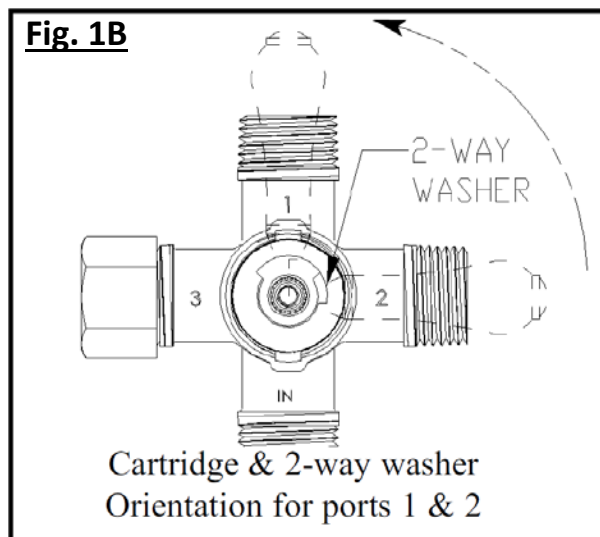
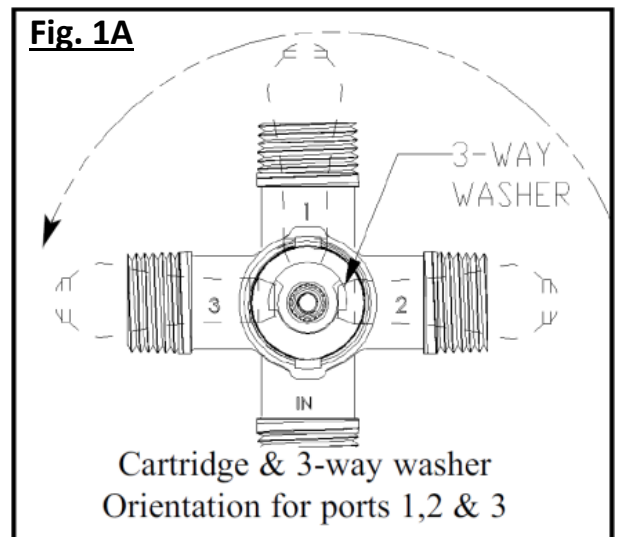
**Warning:** To prevent severe damage to valve, any solder/braze process must be performed a minimum of 4" from ports, otherwise cartridge **must** be removed from valve body.

#### I. 2-way or 3-way Mode Diverter Setting:

Determine if your application needs to have 2 or 3-way mode diverter. Select 2 or 3-way mode diverter as follow:

- Valve is supplied in a 3-way mode by default. 3-way mode is used for 3 end devices. 3-WAY WASHER and orientation are shown in **Fig. 1A**.
- Optional 2-way WASHER* is supplied separately. 2-way mode is used for 2 end devices. To change to 2-way mode, remove ALL THREAD NIPPLE, STEM, and NUT as shown in **Fig. 2**. Swap out the *default 3-WAY WASHER* with the 2-WAY WASHER and place onto cartridge. 2-WAY WASHER and orientation are shown in **Fig. 1B** and **Fig. 1C**. A 1/2" NPT CAP (not included) is required on the unused "OUTLET" port.

**Note:** Unused "OUTLET" port CAN NOT be used as shut off. Re-assemble NUT, STEM, and ALL THREAD NIPPLE.



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## 2. Diverter installation:

- a. Diverter is used with a mixed (hot & cold) water input, (i.e. Balance Pressure or Thermostatic Valve w/ shut off).
- b. Notice the "IN" port of the diverter body for water supply and position diverter BODY 3" – 4" from back side of diverter BODY to Finished Wall surface as shown in **Fig. 2** below.
- c. Support BODY to stud framing using cross brace and strap tape or equivalent. Check the horizontal and vertical level of diverter BODY by placing bubble level on STEM. Also, ensure STEMS perpendicular to the Finished Wall. Make any necessary adjustments.
- d. Utilizing 1/2" copper supply pipe and 1/2" Socket End x 1/2"NPT Female Pipe Adapters or directly sweat water supply line to "IN" port of diverter BODY, and sweat the OUTLET ports of diverter BODY to end device fittings. If sweating within 4" from valve inlet/outlet, remove cartridges during this process. **Note : If cartridge is removed during installation, re-torque diverter NUT to factory specification of 14-16 ft-lbs.**
- e. Position a bucket in front each of end device fitting, slowly turn on water supply to flush out any debris and check for any blockage within the diverter. Allow the water to flow for at least one minute to each end device fitting. Turn off water supply. Temporary place 1/2" NPT Plugs (not included) into each end device fitting and turn on water supply again to pressurize the whole system. Check for any leak between BODY and inlet/outlet line fittings. Repair as needed. When complete checking, remove the temporary 1/2" NPT Plugs.
- f. Installation for diverter valve is now completed. Proceed to complete Finished Wall surface (**Important:** opening of the Finished Wall around the diverter valve has to be round diameter between 1 1/2" – 1 5/8" and concentric with cartridge STEM to ensure enough clearance in case diverter cartridge has to be removed for future service.) To install Control Handle Trim, follow installation instruction provided with the trim product.

