



# Installation Manual - PBV.1005A

# 1/2" Pressure Balance Valve With Integrated 2-way Diverter

Use With Trims Ending in \*2101 & \*2100



#### **BEFORE YOU BEGIN**

- You must observe all local plumbing laws and codes.
- Do not install this valve if it does not meet local plumbing codes.
- Shut off the main water supply.



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### **NOTICE TO HOMEOWNER**

- We recommend that this product is installed by a qualified professional plumber.
- Please check this product immediately to ensure that it has
  not been damaged and is complete. Before installation, please
  make sure this product is the correct model and you have all
  the parts required for installation and use.
- Please flush the water system to ensure that no metal swarf, solder, and other impurities can enter the product.
- Turn off water supply before commencing work.
- Please read these instructions carefully and retain for future reference.



#### **OPERATING SPECIFICATIONS**

#### WATER TEMPERATURE



This product is to be used with water at a temperature range of 40°F - 120°F ONLY!

#### **WATER PRESSURE**



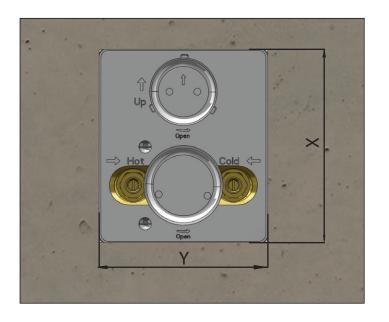
This product is to be used with a water pressure range of 15 PSI to 80 PSI ONLY

If water pressure is greater than 80 PSI install a pressure reducing valve (PRV)

This valve meets or exceeds ANSI A112.18.1 and ASSE 1016

This valve is certified by IAPMO

#### **CUT OUT DIMENSIONS**



Isenberg's PBV1005A valve comes with a pre-attached mud-guard. This mud-guard is not to be removed or discarded. Its purpose is to guide the installation professional on the proper cut-out dimensions of the drywall.

Wall Cut Out Dimensions
From **Center Point** of Valve:

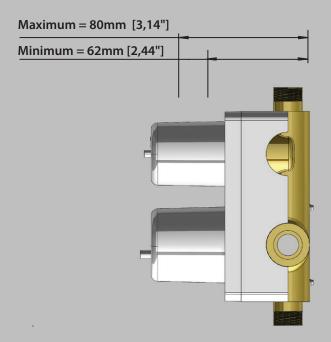
PBV.1005A

X = 138 mm / 5.43"

Y = 121 mm / 4.76''



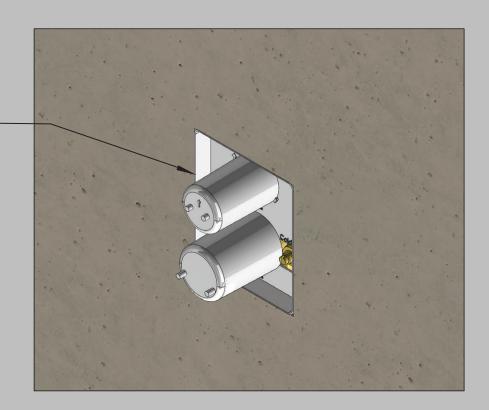
### **ROUGH IN SPECIFICATION**



The distance between back of the valve to the finished tile surface should be between 2.44 and 3.14 inches.

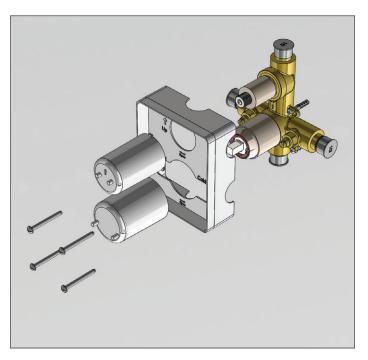
Finished tile should fall between Min & Max.

If valve is installed too deep into the wall, extensions are available.

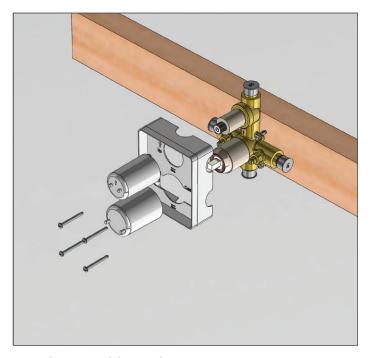




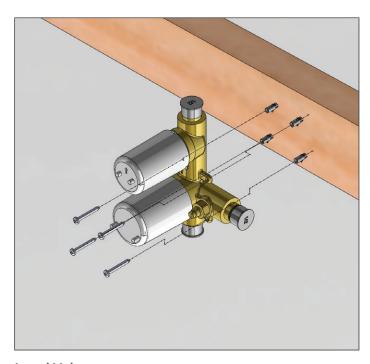
# **CONNECTING THE SUPPLY & OUTPUT LINES**



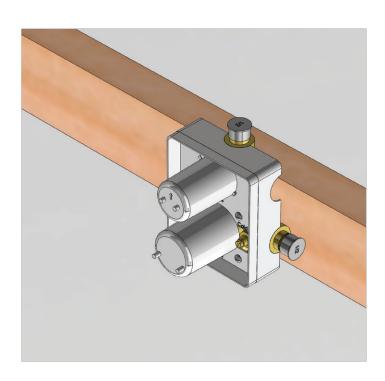
Fix Valve on wooden plank



Attach Hot/Cold Supply Lines

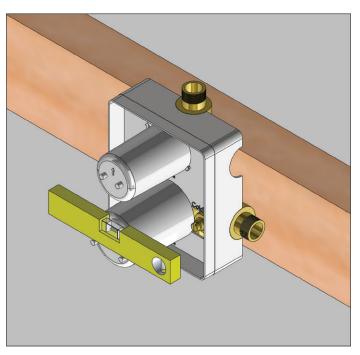


**Level Valve** 

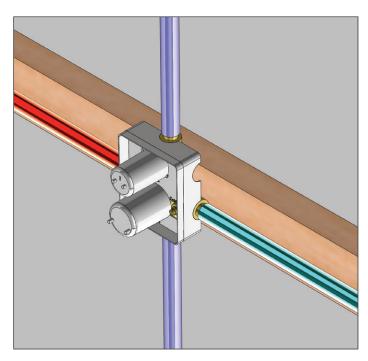




# **CONNECTING THE SUPPLY & OUTPUT LINES**



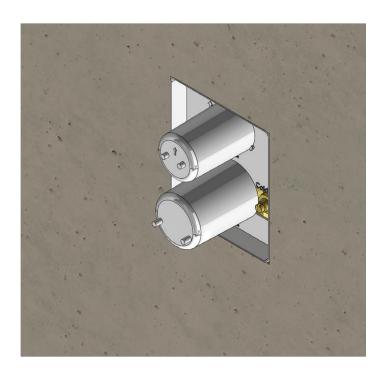




Attach Hot/Cold Supply Lines



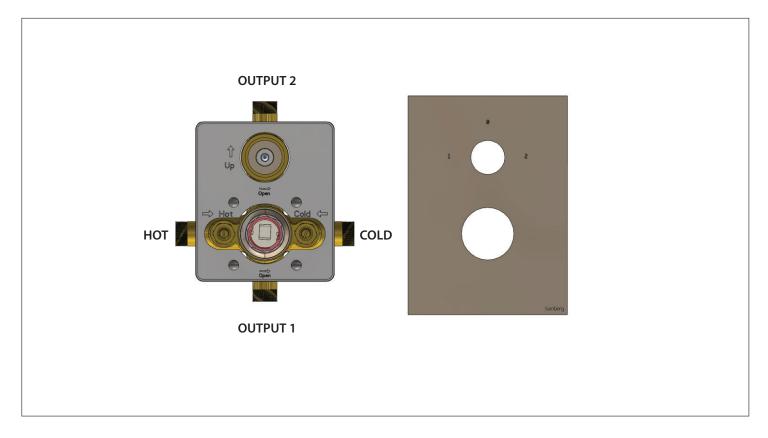
### **FINISH TILE POSITION**



Install Drywall and Tile. Ensure finished tile surface is between the min and max marks on the mud guards.

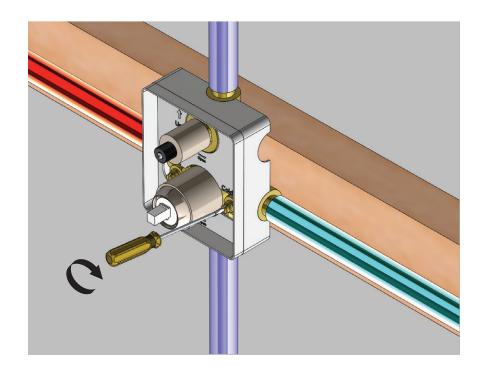
#### TRIM MARKINGS / WATER OUTPUT

The below diagram shows the markings on the trim plate and the outputs on the valve. This will help the installation professional to connect the appropriate accessories to the valve output ports





### **USING THE SUPPLY STOPS**

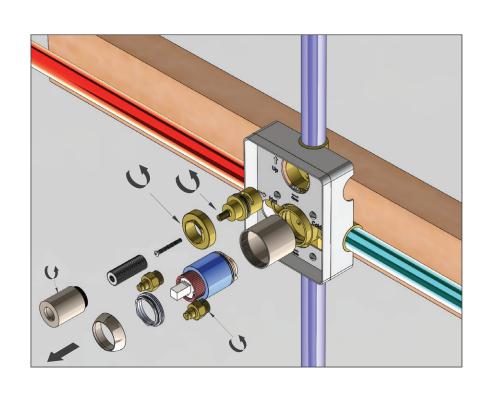


Turn Clock-wise 7 times to stop water flow.

#### **FLUSHING THE VALVE**

In order to clear dirt in the lines you must flush the valve before the wall is closed and water is turned on for the first time.

- 1) Remove the 2 supply stops by turning with a spanner
- 2) Remove temperature cartridge by turning with a spanner
- 3) Remove volume control cartridge by turning with a spanner
- 4) Turn on water supply and let water flow removing any dirt in the lines.

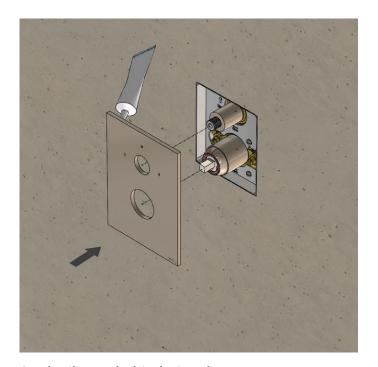




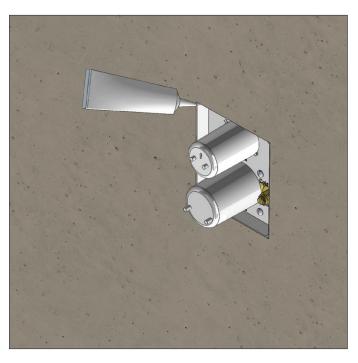
# INSTALLING THE TRIM - TRIM PLATE SIZE AND SHAPE MAY VARY - ILLUSTRATION ONLY



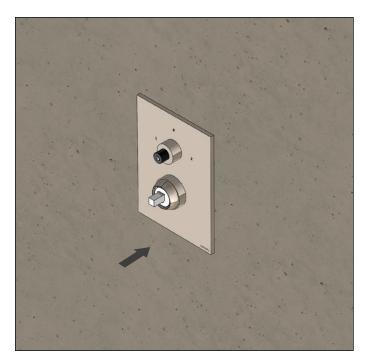
Remove mud guards



Apply silicone behind trim plate



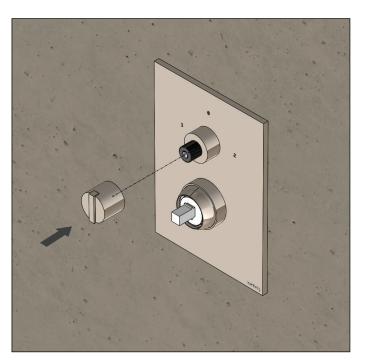
Apply silicone between mud guard and dry wall / tile



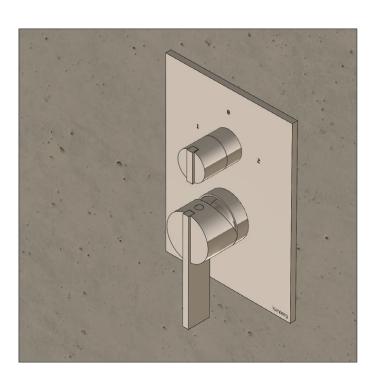
Push trim plate towards wall



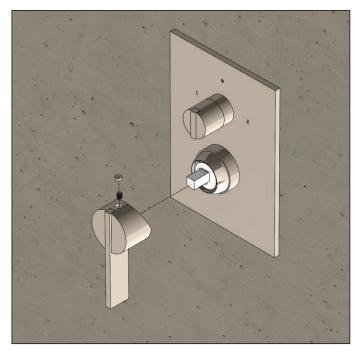
# INSTALLING THE TRIM - TRIM PLATE SIZE AND SHAPE MAY VARY - ILLUSTRATION ONLY



Insert diverter handle



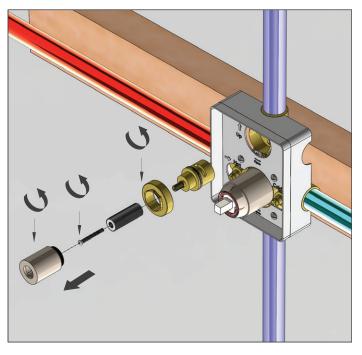
This photo shows a completely installed trim



Insert temperature handle and tighten hex screw, then insert cover button



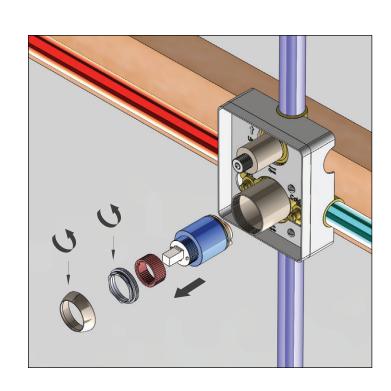
### REPLACING THE DIVERTER CARTRIDGE



- 1. Remove diverter cover by turning with hand
- 2. Removed diverter holding nut with wrench
- 3. Remove diverter cartridge

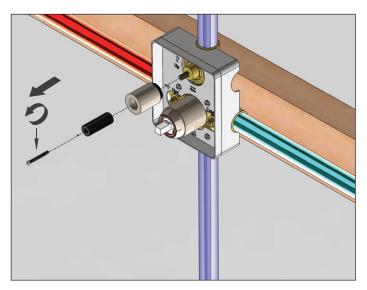
### REPLACING THE TEMPERATURE CARTRIDGE

- 1. Remove cartridge circular bezel with hand
- 2. Removed cartridge retaining nut with wrench
- 3. Remove temperature cartridge

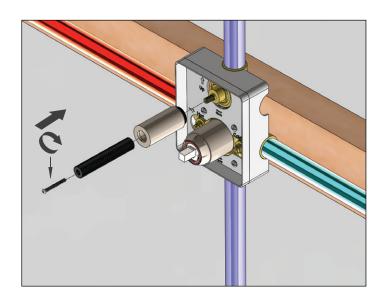




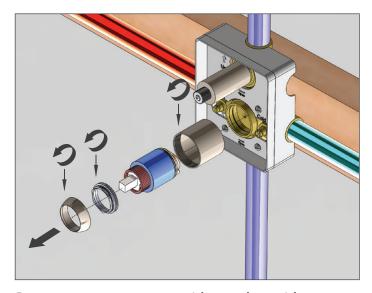
# **INSTALLING EXTENSIONS TO THE VALVE - OPTIONAL**



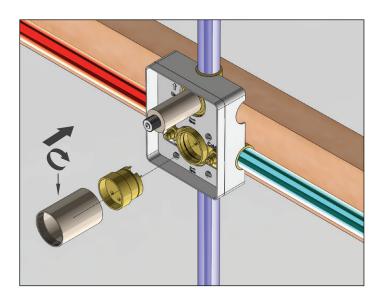
Remove diverter trim piece



**Insert Diverter extension** 



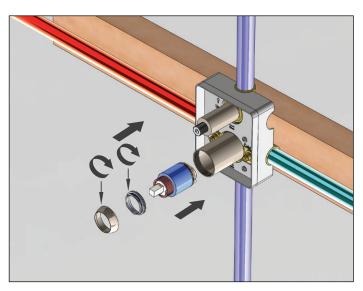
Remove temperature cartridge and cartridge cover



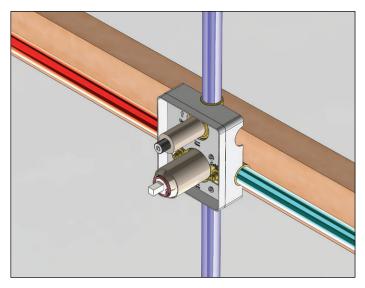
Insert temperature extension piece and extended cartridge cover



# **INSTALLING EXTENSIONS TO THE VALVE - OPTIONAL**



Insert temperature cartridge, retaining nut and bezel



Fully installed extension kit is seen above