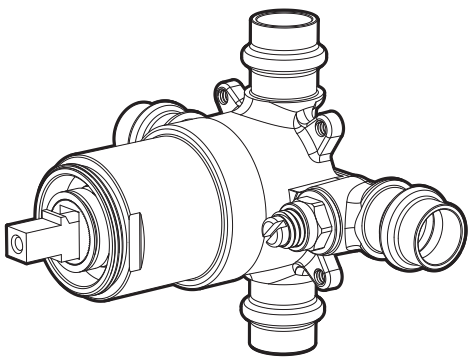
WOLVERINEBRASS®

INSTALLATION INSTRUCTIONS

85666VP

Balance Pressure Shower Valve
with Press Connections



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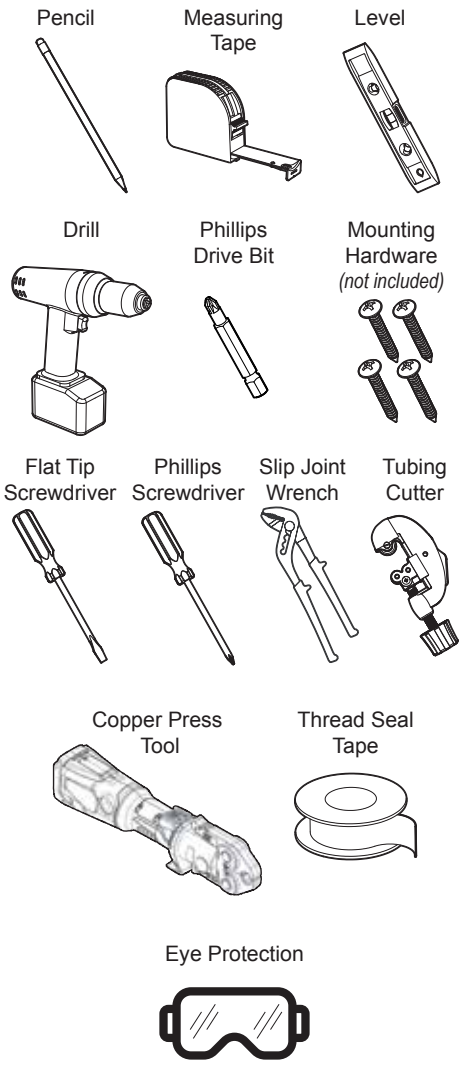
TOOLS & SUPPLIES NEEDED



IMPORTANT

SAFETY TIPS:
Be sure to read and understand all instructions before beginning installation.

Inspect all connections after installation.

Cover the drain to avoid loss of parts.

Be sure to wear proper eye protection.

Do NOT over tighten any connections or damage may occur.

Shut OFF water supplies before beginning installation.

Observe all local plumbing and building codes.

VALVE SPECIFICATIONS:
This Valve has an operating range of 20-80 psi.

This Valve is engineered to be used in conjunction with a Shower Head rated at 1.75 gpm (6.6 L/min) or higher flow rate.

Maximum water pressure: 125 psi static.

Minimum water pressure: 20 psi flowing.

Minimum Cold Supply Temperature: 40°F.

Maximum Hot Supply Temperature: 160°F.

Minimum Hot Supply Temperature: 5°F above set point.

CAUTION

Risk of personal injury. Do NOT use the Valve without properly adjusting the Temperature Limit Stop (TLS) as outlined in this installation manual.

Ensure proper structure is in place to support the Valve and plumbing during use.

MAINTENANCE

Your new product is designed for years of trouble-free performance.

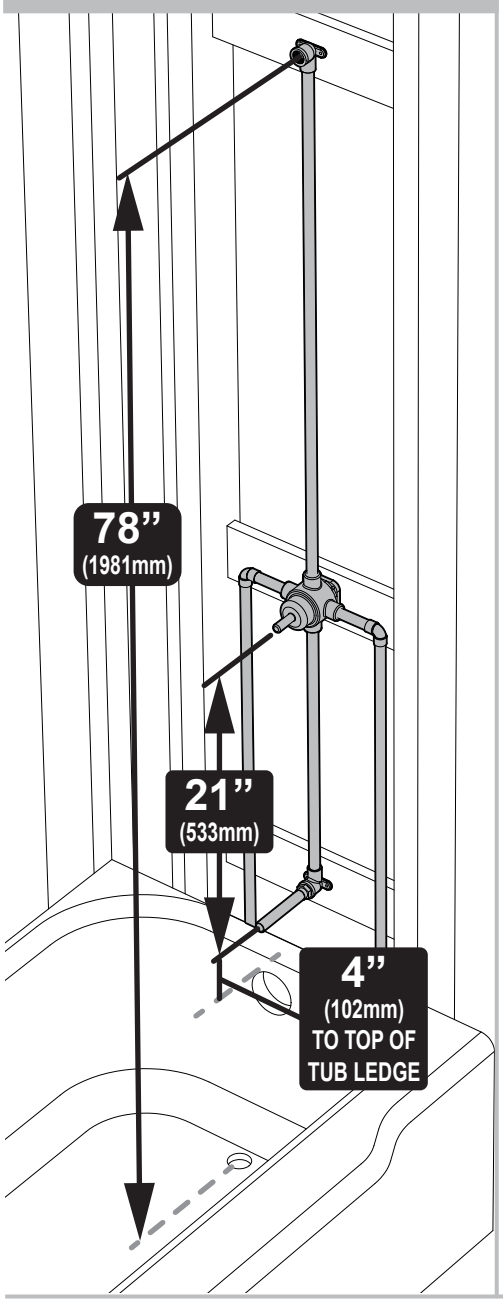
This type of valve must be cleaned and maintained on a regular basis. Periodic maintenance should be performed at least every 12 months or after any changes have been made to the building's plumbing system. Valves that are installed outdoors should be winterized by removing all of the internal parts and removing any standing water from the valve. Quarterly the maximum hot temperature setting (TLS) should be checked and adjusted accordingly.

FINISH MAINTENANCE:
Keep the surface finish looking new by cleaning it periodically with a soft cloth. Avoid abrasive cleaners, steel wool, and harsh chemicals as these will dull the finish and void your warranty.

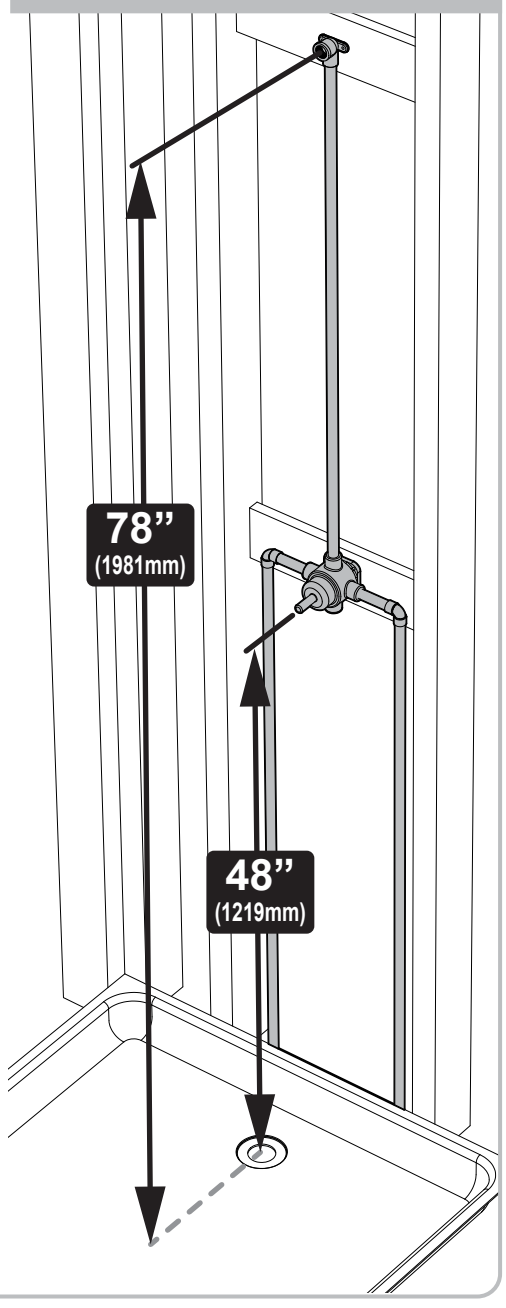
NEED HELP?
For additional assistance or service please contact: 800-944-9292 www.wolverinebrass.com

ROUGH IN VERTICAL REFERENCE

TUB/SHOWER

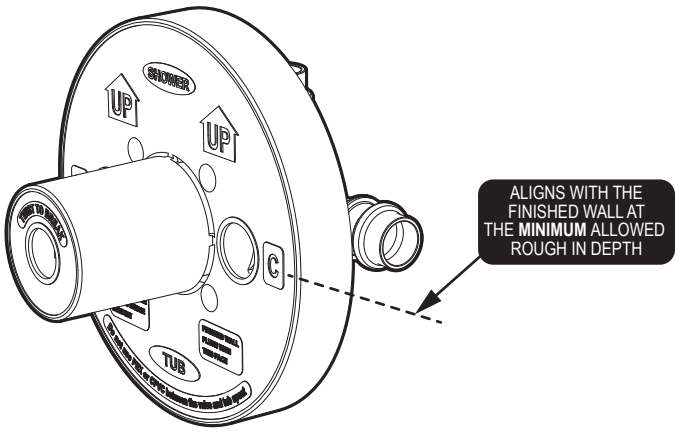


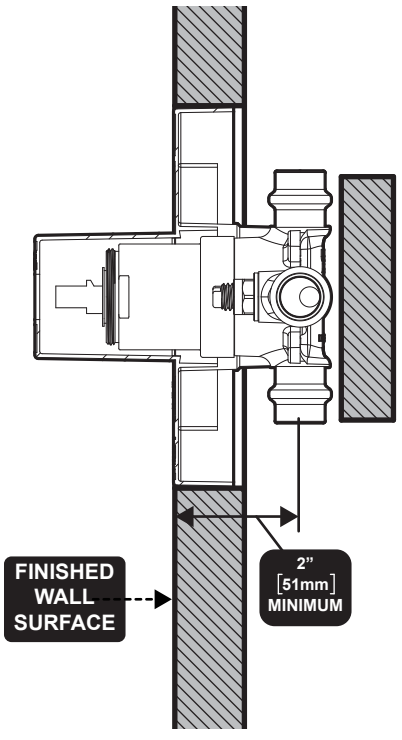
SHOWER ONLY



ROUGH IN DEPTH REFERENCE

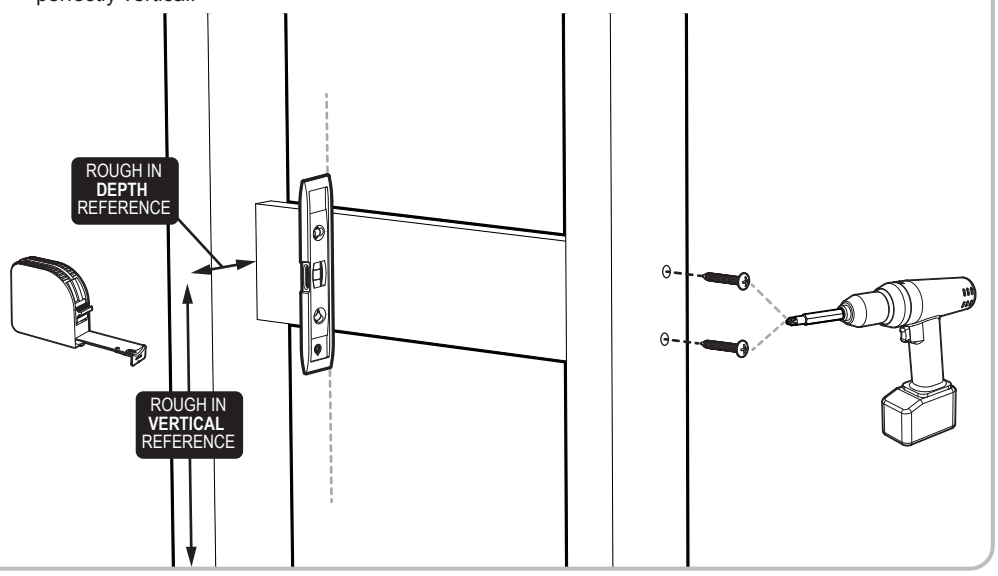
Determine the mounting depth of the Valve referencing the diagrams below. The Protective Cover on the Valve has reference markings showing where the Valve should align with the Finished Wall Surface at the Minimum Mounting Depth.





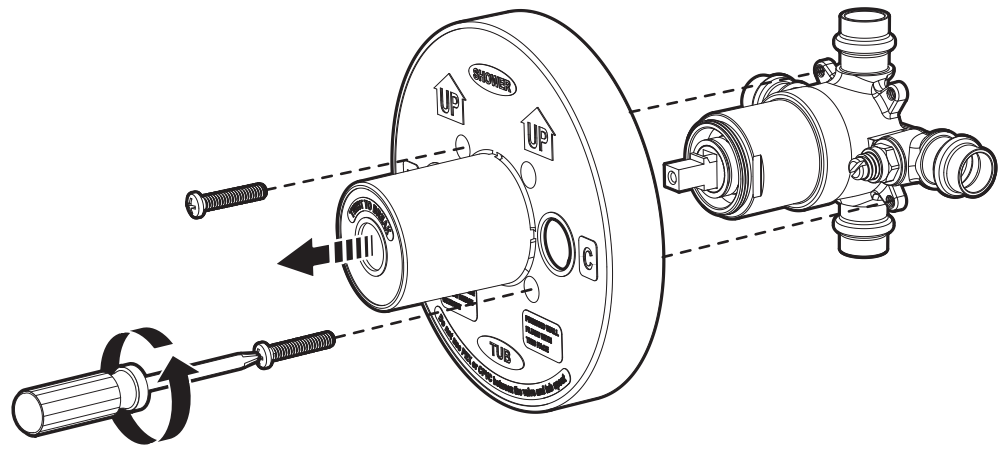
SITE PREPARATION

1 Referencing the rough in guides, install a 1” x 4” Cross Brace between the Vertical Studs at the proper height and depth outlined. Use a Level to ensure the front surface of the Cross Brace is perfectly vertical.



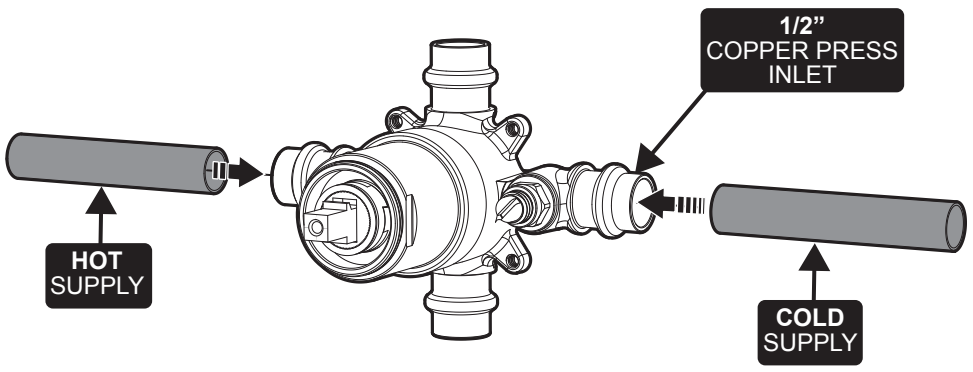
PREPARE VALVE FOR MOUNTING

2 Remove Screws, and Protective Cover from Valve. Set aside for future use.



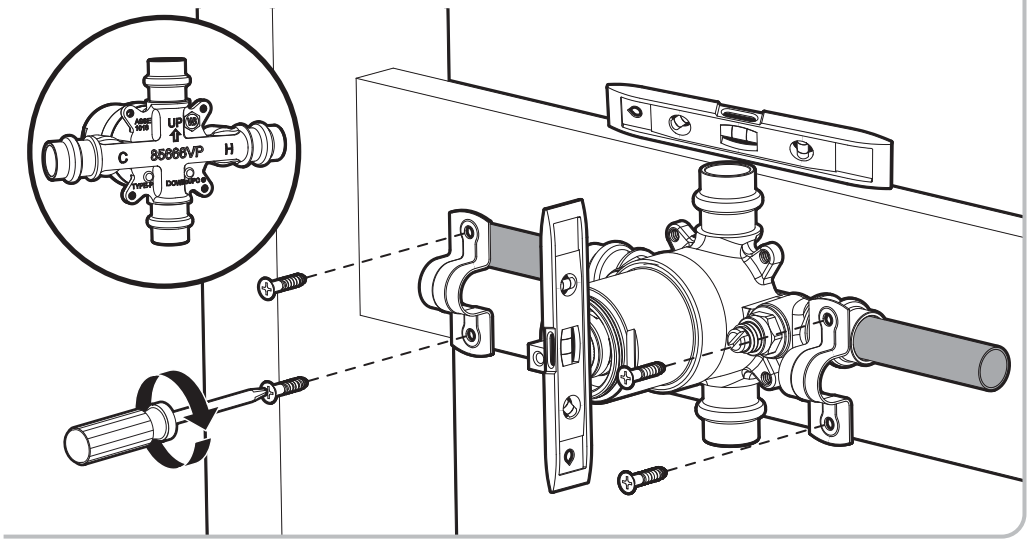
PLUMB INLET PIPING

3 Make plumbing connections to the Valve Inlets. Valve Inlet Connections are 1/2” Copper Press. Cold Supply to be connected to the Right Inlet, Hot Supply to be connected to the Left Inlet.



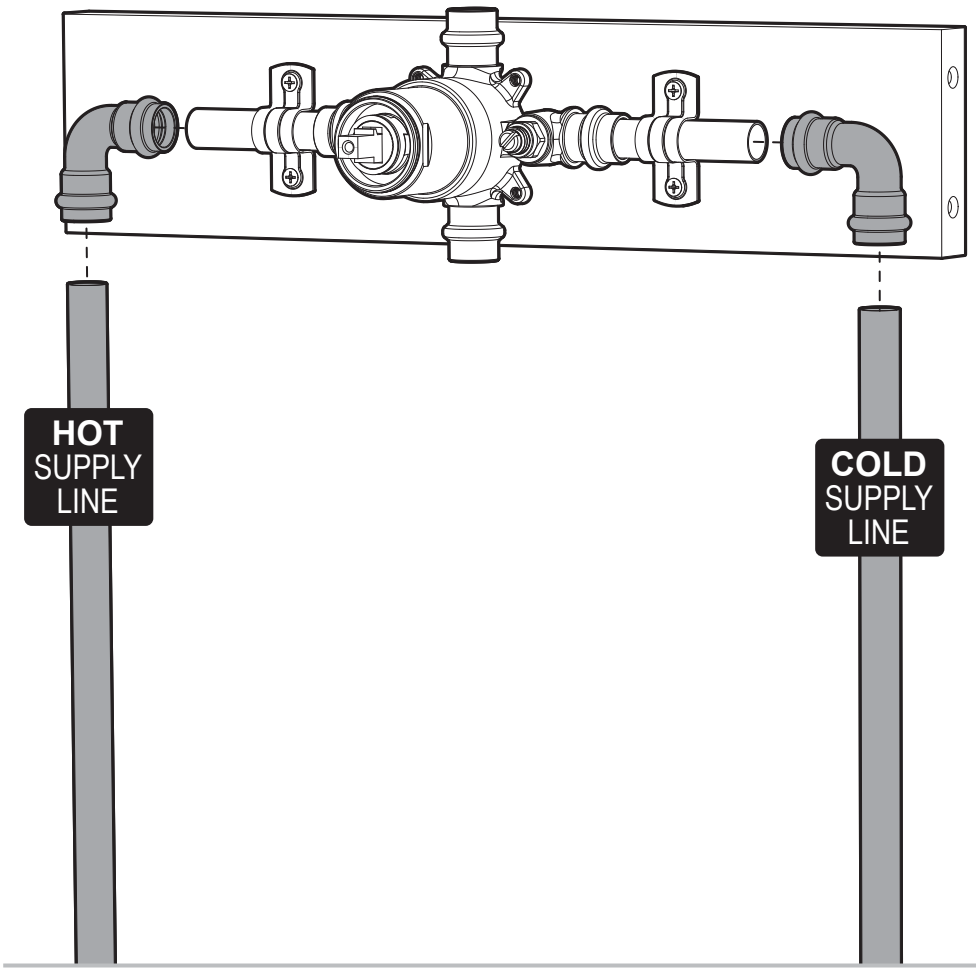
SECURE VALVE TO STRUCTURE

4 Verify proper orientation of Valve so the Shower Outlet is pointing upwards *(see back of Valve for reference)*. Using a Level, align Valve into position and secure to Cross Beam using Pipe Straps or similar method. Ensure proper spacing remains for a Copper Press Tool to make connections. Mounting hardware is not included.



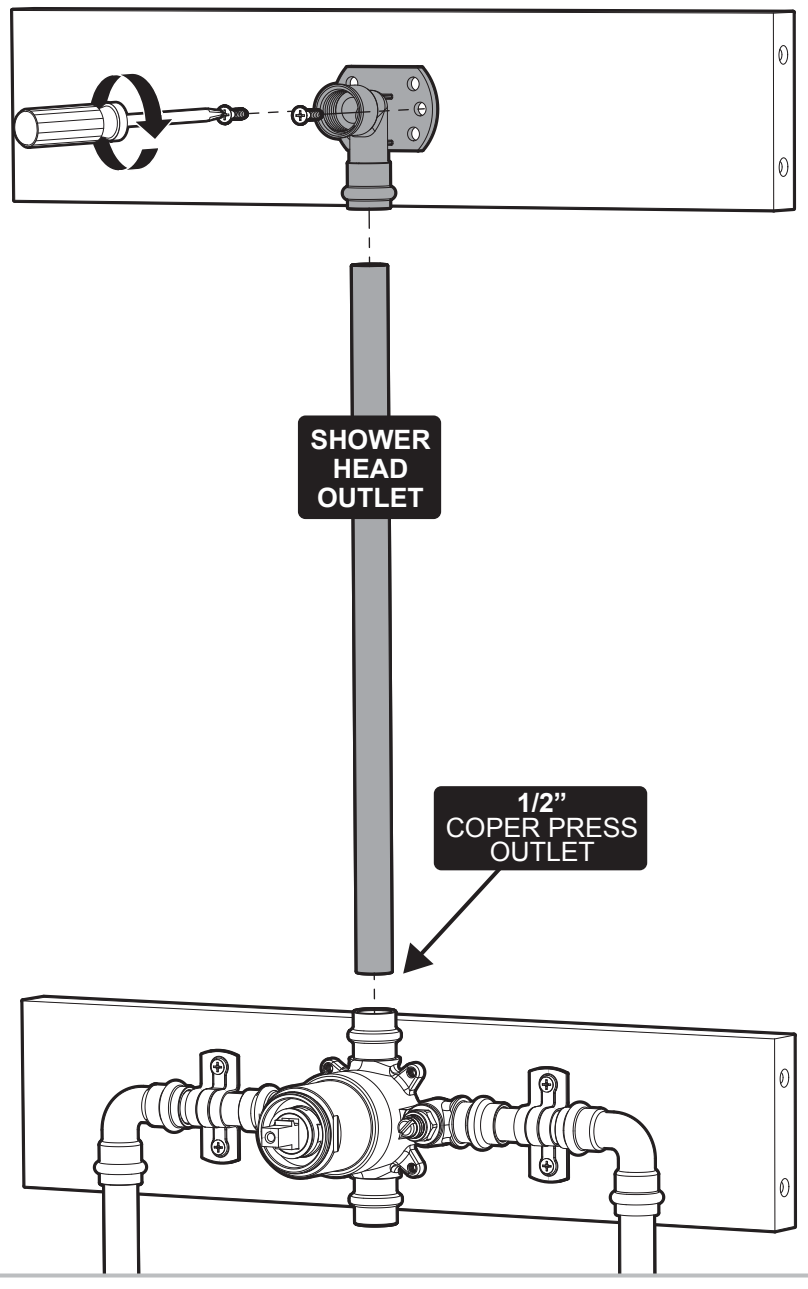
PLUMB SUPPLY LINES TO VALVE

5 Continue plumbing connections to the Valve Inlets. Cold Supply to be connected to the Right Inlet, Hot Supply to be connected to the Left Inlet.



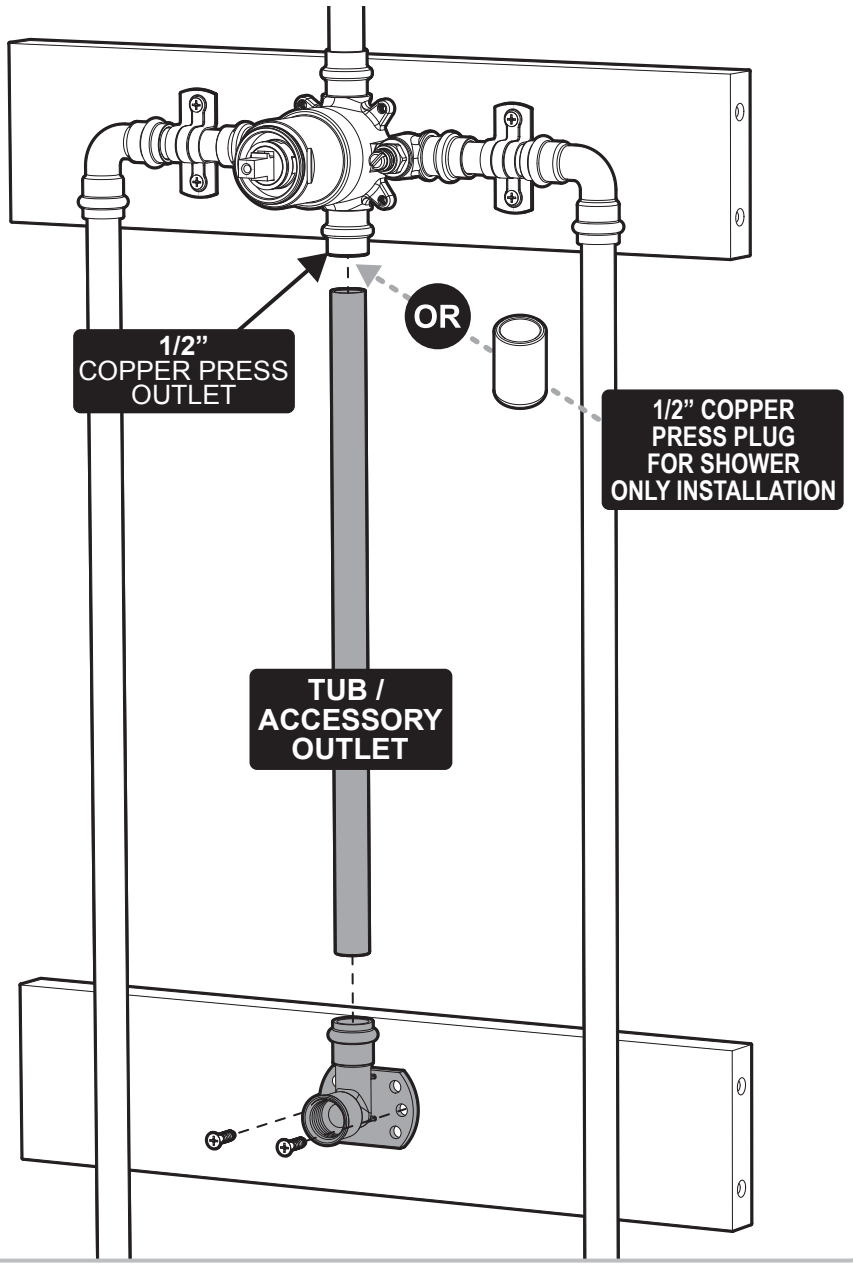
PLUMB SHOWER HEAD OUTLET

6 Make plumbing connections to the Shower Head Outlet of the Valve. Shower Head Outlet Connection is 1/2” Copper Press. See “Rough In Vertical Reference” for the proper mounting height of the Shower Head. Ensure proper bracing is in place to support the plumbing and Shower Arm Connection.



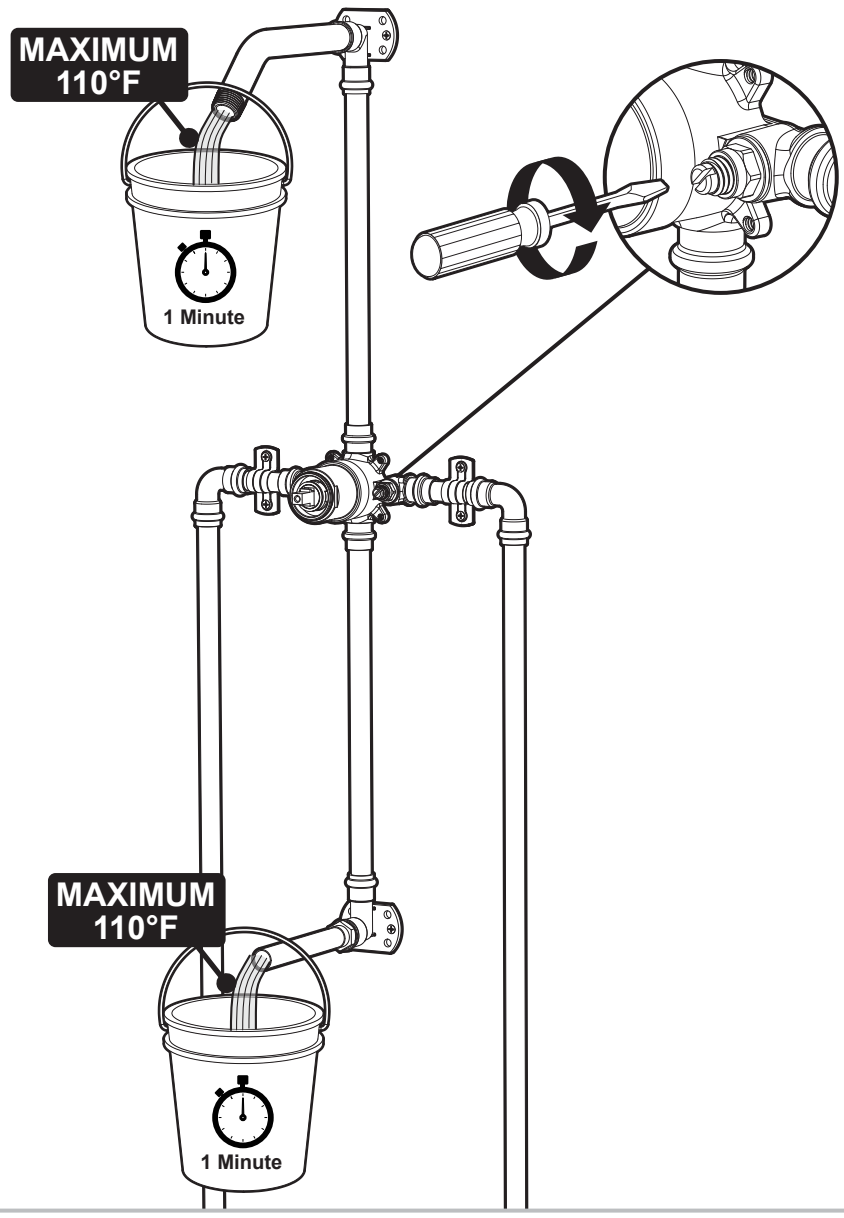
PLUMB TUB/ACCESSORY OUTLET

7 Make plumbing connections to the Tub/Accessory Outlet of the Valve. Tub/Accessory Outlet Connection is 1/2” Copper Press. See “Rough In Vertical Reference” for the proper mounting height of the Tub Spout *(if used)*. Ensure proper bracing is in place to support the plumbing and Tub Spout or Accessory connections. If your installation does not include a Tub/Accessory, install the included 1/2” Plug to the Tub/Accessory Outlet.



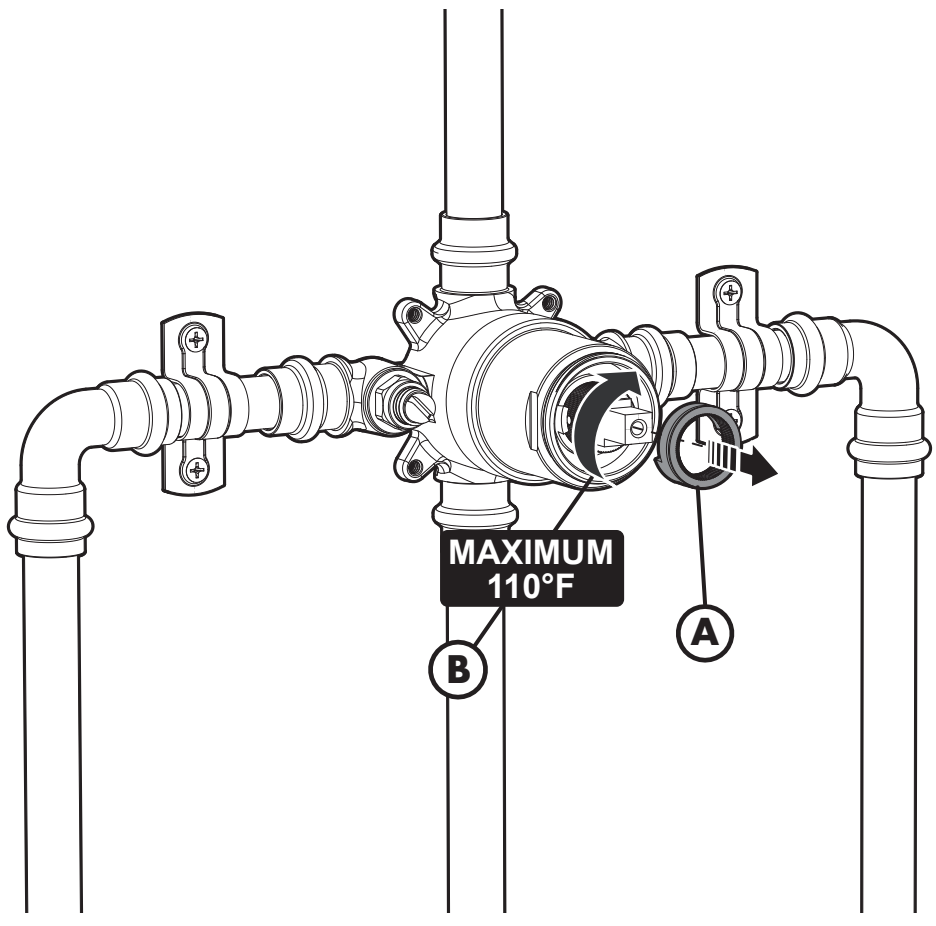
FLUSH SYSTEM / CHECK FOR LEAKS

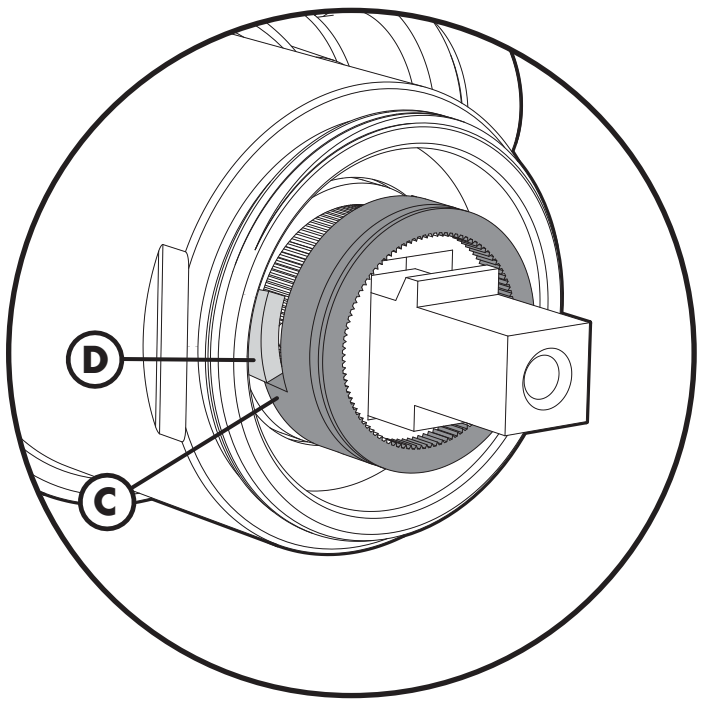
8 Temporarily place the Valve Handle on to the Valve Spindle. Rotate the Valve Handle counter-clockwise to ensure the Valve is in the “OFF” position. With the Valve in the “OFF” position, turn “ON” water supplies and inspect for leaks. Place a bucket at the Shower/Tub outlets. Turn the Valve Handle clockwise to the full “ON” position. Flush each outlet for 1 minute. Verify the outlet temperature using a thermometer. Return the Valve Handle to the “OFF” position by rotating counter-clockwise until it stops. Turn “OFF” water supplies. If you desire to turn “OFF” the water supplies at the Valve, you can do so by turning the Stop Screws clockwise.



TEMPERATURE LIMIT STOP (TLS) ADJUSTMENT

9 The maximum outlet temperature setting adjustment (TLS) of the Valve has been factory set at 110 °F. To adjust the limit of the maximum outlet temperature the Valve delivers, adjust the Valve’s Temperature Limit Stop (TLS) Plate by following the steps below.



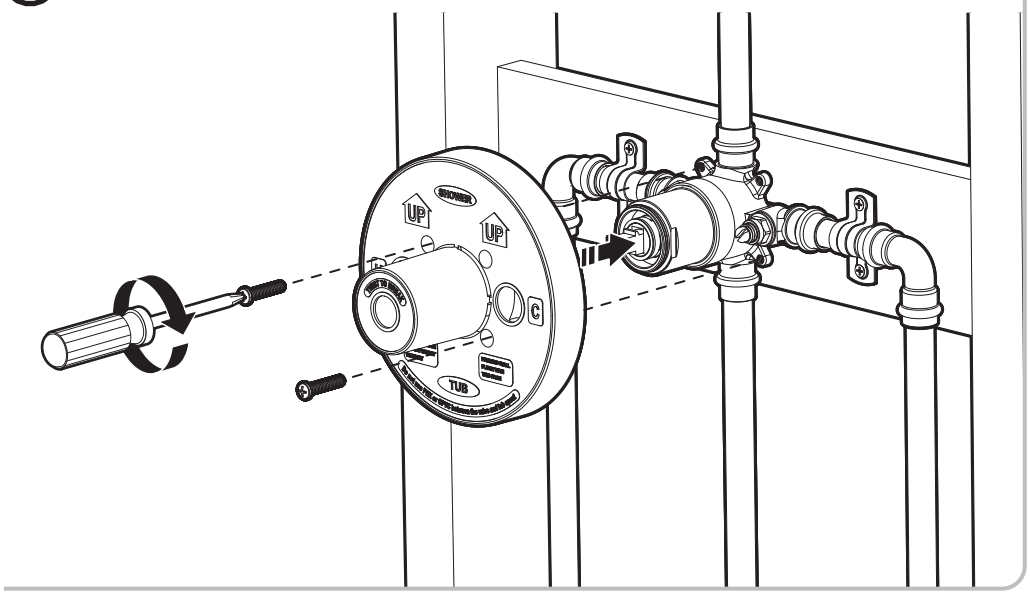


ADJUSTING THE TEMPERATURE LIMIT

- With the water supplies "On" and the Valve in the “Off” position, remove the Hot Limit Adjustment Ring (A).
- Rotate the Valve Spindle clockwise to the maximum desired temperature (B).
- Reinstall the Black Hot Limit Adjustment Ring so that the Ring Stop (C) touches the Cartridge Stop (D)
- Return the Valve to the “OFF” position by rotating the Valve Spindle counter-clockwise.

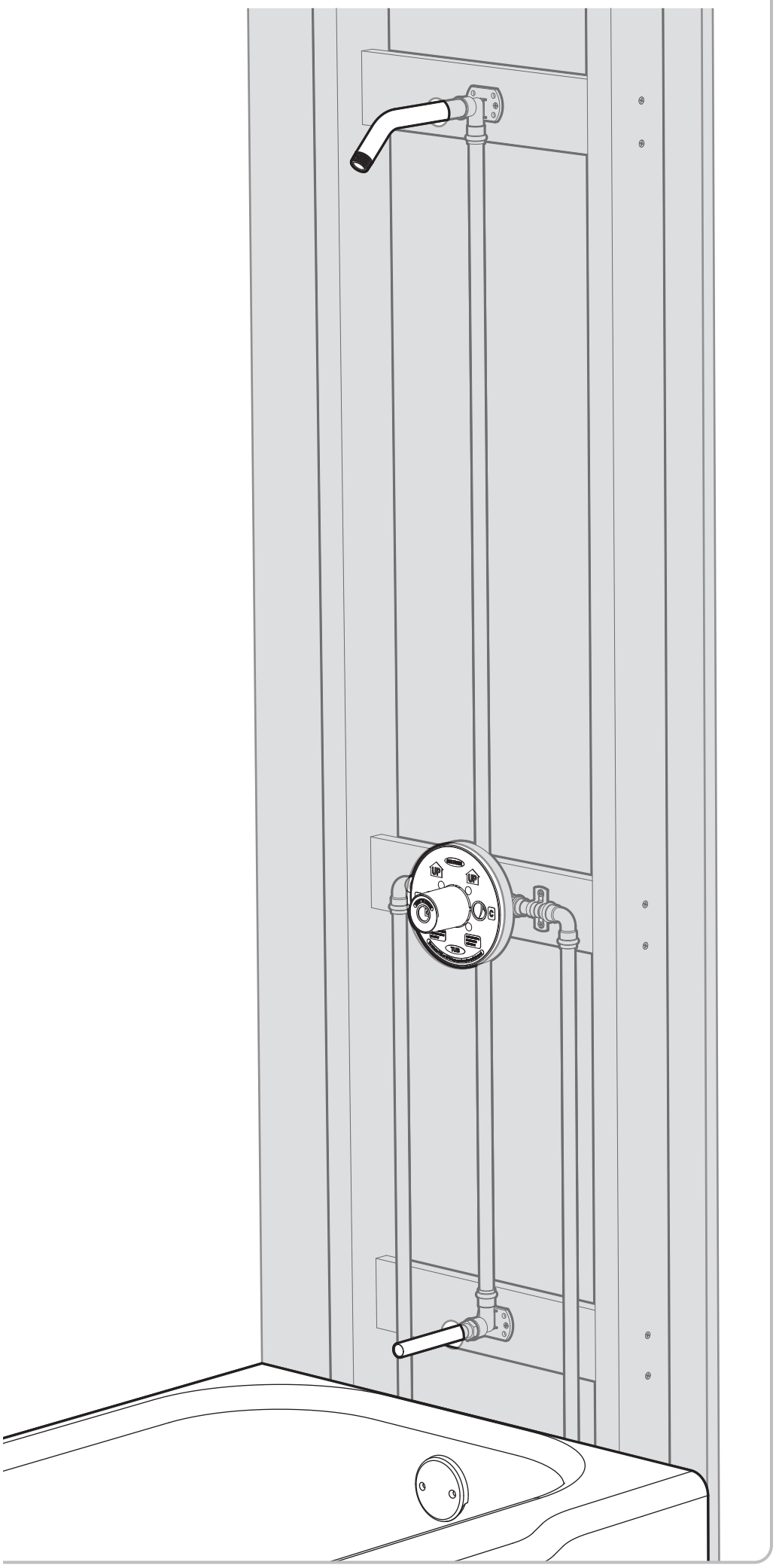
REINSTALL PROTECTIVE COVER

10 Reinstall Protective Cover, and Screws previously removed.



FINISHED WALL CONSTRUCTION

11 Complete finished wall construction and installation of both the Shower Head outlet and Tub/Accessory outlet. Cut Valve access opening using the Protective Cover as a guide. Make sure to use Thread Sealant on all threaded connections.



SERVICE INSTRUCTIONS

Service Instructions

Caution- Any repair or servicing of the Valve may affect the maximum outlet temperature setting of the Valve. After working on the Valve, make sure the maximum outlet temperature is set to the recommended setting of 110°F.

Valve Cartridge Removal

1) Remove Trim from Valve. Close the Integral Stops of the Valve by turning the Stop Screws clockwise.

2) With the Valve in the "OFF" position, remove the Bonnet by unthreading with a Slip Joint Wrench.

3) Remove the Valve Cartridge from the Valve Body by pulling on the Spindle of the Valve Cartridge. Verify that the Lower Cartridge Seal is in place within the Valve Cartridge, and not within the Valve Body.

4) Replace the Valve Cartridge if necessary, being sure to properly align the mounting posts of the Valve Cartridge with the corresponding recesses in the Valve Body.

5) Reassemble the Bonnet by threading it into the Valve Body with a Slip Joint Wrench. Final torque should be 75 in*lb.

Important – Adjust the Valve's maximum outlet temperature to the recommended setting of 110°F. *See Temperature Limit Stop adjustment section of this installation manual.*

6) Open the Integral Stops of the Valve by turning the Stop Screws counterclockwise. Check Valve for leaks.

7) Reassemble the Trim Parts.

Spring Check Stop Parts Removal

1) Remove Trim from Valve. Shut off HOT and COLD water supply lines to the inlets of the Valve.

2) Unscrew the Stop's Retaining Nut using a Socket Wrench equipped with a 9/16" (14mm) Deep Well Socket. Carefully remove the Retaining Nut w/Spindle, Spring, and Poppet assembly. Clean and/or replace the necessary parts. Reassemble the parts, reversing the above procedure. Final torque should be 70 in*lb. Repeat procedure on the other Stop.

3) Turn on the HOT and COLD water supply lines. Check for leaks.

4) Reassemble the Trim Parts.

PRODUCT WARRANTY

With exception of items listed below, this product has a limited warranty against defects in materials or workmanship for a period of one year from the date of purchase.
Exceptions:

1.) Faucet valve cartridges have a limited warranty for a period of 100 years from the date of manufacture. This date is stamped on the valve cartridge.

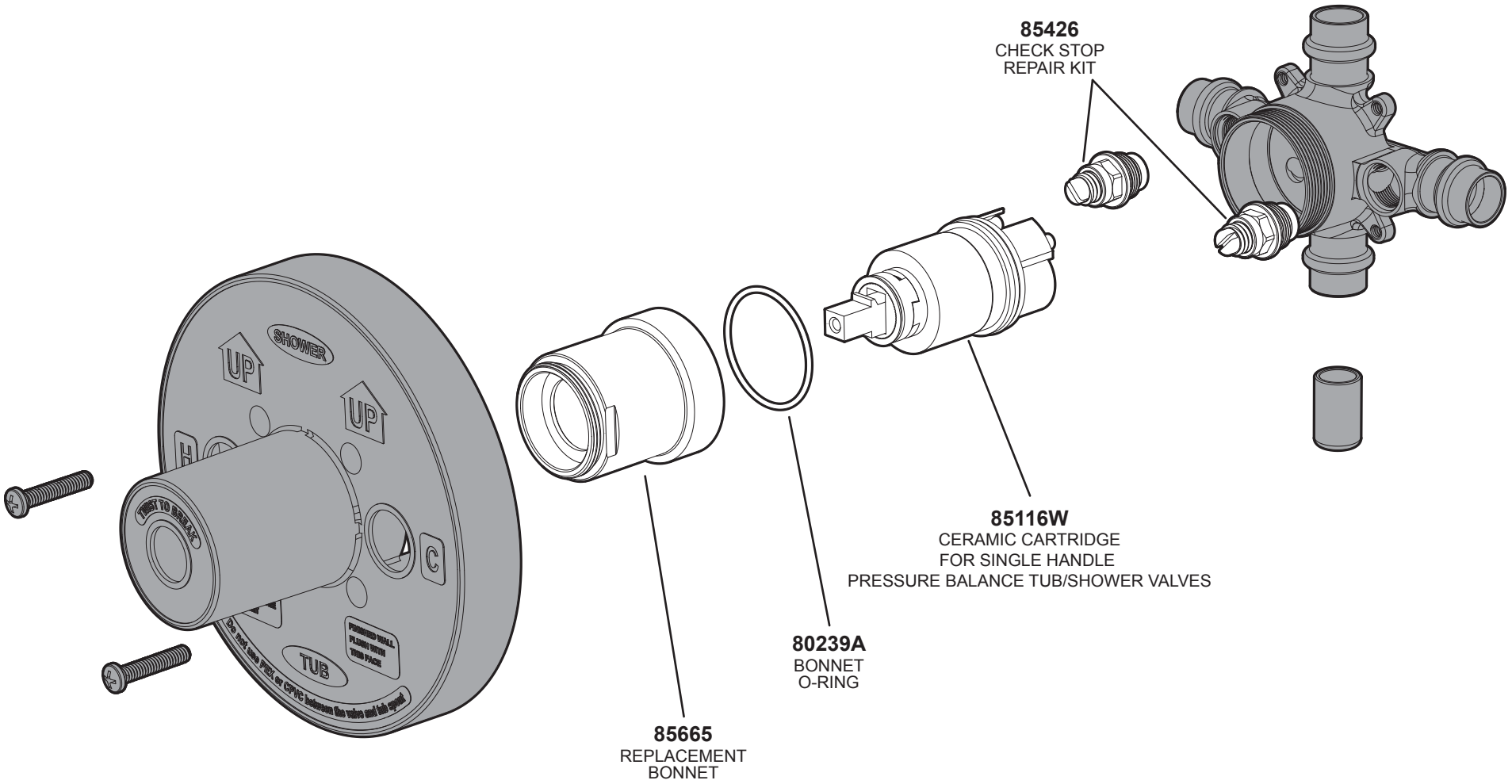
2.) Product finish have a limited warranty for a period of 100 year from the date of installation. Failure to follow the cleaning instructions voids all finish warranty. Damage due to accidents or installation is not warranted. *(Oil Rub Bronze and Matte Black have a 1 year finish warranty)*.

Warranty is limited to replacement of defective components or units. Associated replacement or repair labor costs are NOT included. This warranty only pertains to single dwelling residential use. Valves used for other than single dwelling residential use are covered by a 1 year limited warranty from the date of purchase.

CALIFORNIA PROPOSITION 65

CALIFORNIA PROPOSITION 65:
WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
Wash hands after installation, repair, or removal of this product.

REPAIR PARTS



ROUGH-IN DIAGRAM

COMPLIANCE

ASME A112.18.1 / CSA B125.1
ASSE 1016 / ASME A112.1016 / CSA B125.16

CONNECTIONS

HOT / COLD Inlets: 1/2” Copper Press

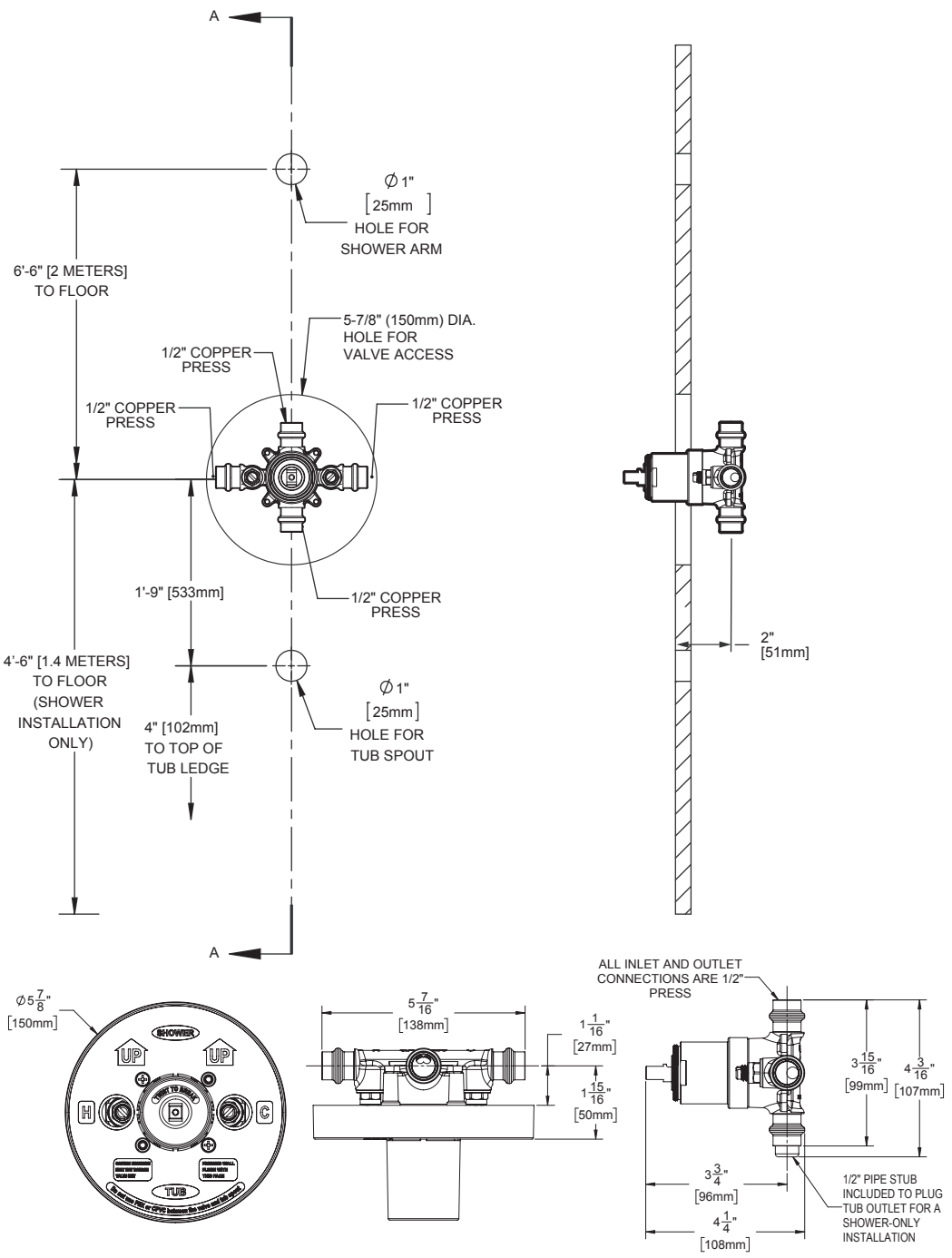
Shower Outlet: 1/2” Copper Press

Tub/Accessory Outlet: 1/2” Copper Press
*(1/2” Press Plug **included** for Shower Only installation)*

NOTES

This Valve is engineered to be used in conjunction with a Shower Head rated at 1.75 gpm (6.6 L/min) or higher flow rate.

Installer to supply necessary inlet connections.



DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE. FOR ADA MOUNTING LOCATIONS, CONSULT ADAAG, ANSI A117.1, AND LOCAL/STATE REGULATIONS.