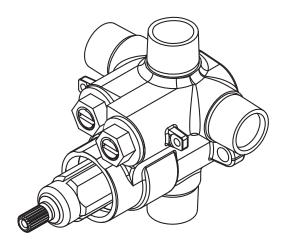
PHYLRICH®

Defining Luxury Since 1959



INSTALLATION INSTRUCTIONS FOR

1/2 Mini Thermostatic Valve 1-115

- w/ VOLUME CONTROL 1-116
- w/ (TWO) 1/2" VOLUME CONTROL 1-138
 - w/ 3 Way Diverter 1-117
 - w/ 2 Way Diverter 1-132

1

GENERAL CHARACTERISTICS

WE RECOMMEND THAT ALL PLUMBING PRODUCTS BE INSTALLED BY A LICENSED PROFESSIONAL

IMPORTANT: Thoroughly read instructions before installation.

WARNING:

IF THIS VALVE IS INSTALLED UPSIDE-DOWN A REVERSE CARTRIDGE IS NOT AVAILABLE.

CONSEQUENTLY, VALVE MUST BE REMOVED AND REINSTALLED RIGHT-SIDE UP.

The valve is designed with two outlets for ease of installation, but are not intended to be used concurrently with each other. Using both outlets will reduce the performance of the valve.

VALVE SPECIFICATION

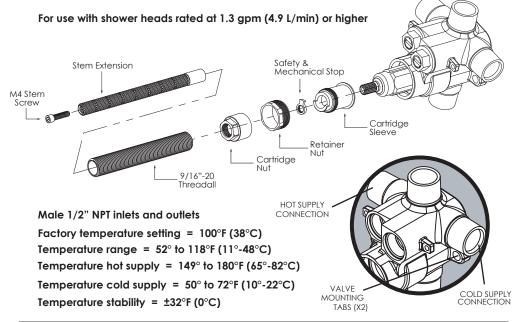
Recommended supply pressure = 20 to 80 psi (1,38-5,52 bar)

Recommended hot water supply temperature = 120° to 140°F (48°-60°C)

Operating pressures between **hot and cold supplies** should vary no more than **30 psi (2,07 bar)**. If water pressure exceeds **70 psi (4,83 bar)**, install a pressure reducing valve.

Ensure the mixing valve is in compliance with local plumbing codes when setting the temperature on the water heater.

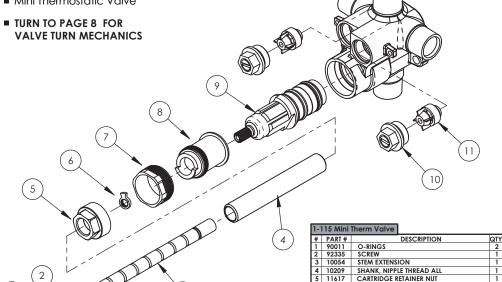
It is the installer's responsibility to verify **correct temperature setting** to prevent any risk of scalding prior to consumer use.





PARTS BREAKDOWN





3

5 11617 11320

11318

11319

11573

6

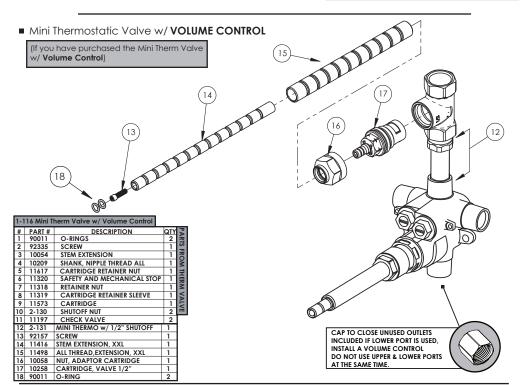
SAFETY AND MECHANICAL STOP

CARTRIDGE RETAINER SLEEVE

1 1

RETAINER NUT

CARTRIDGE SHUTOFF NUT CHECK VALVE



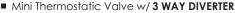
■ Mini Thermostatic Valve w/ 2 VOLUME CONTROL

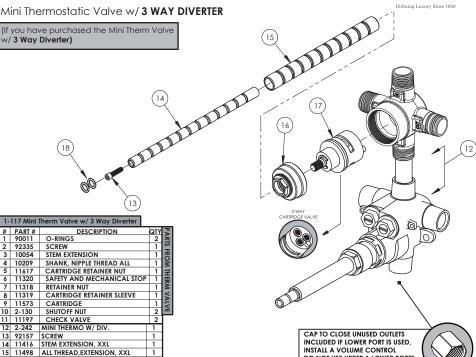
(If you have purchased the Mini Therm Valve w/ TWO Volume Control) 15 12 00 000 á 15 14 1-138 Mini Therm Valve w/ 2 Volume Control # PART# DESCRIPTION 2 1 1 1 1 1 1 1 1 1 2 ERM VALVE 00 O-RINGS SCREW 1 90011 2 92335 3 10054 STEM EXTENSION SHANK, NIPPLE THREAD ALL 4 10209 CARTRIDGE RETAINER NUT
SAFETY AND MECHANICAL STOP 5 11617 18 11320 6 11318 RETAINER NUT 8 11319 9 11573 CARTRIDGE RETAINER SLEEVE CARTRIDGE 2 10 2-130 SHUTOFF NUT 11 11197 CHECK VALVE MINI THERMO w/ 1/2" SHUTOFF 12 2-273 1 2 13 92157 SCREW 14 11416 STEM EXTENSION, XXL 2 2 2 2 4 15 11498 ALL THREAD, EXTENSION, XXL NUT, ADAPTOR CARTRIDGE CARTRIDGE, VALVE 1/2" 16 10058 17 10258 90011 O-RING



DO NOT USE UPPER & LOWER PORTS

AT THE SAME TIME.







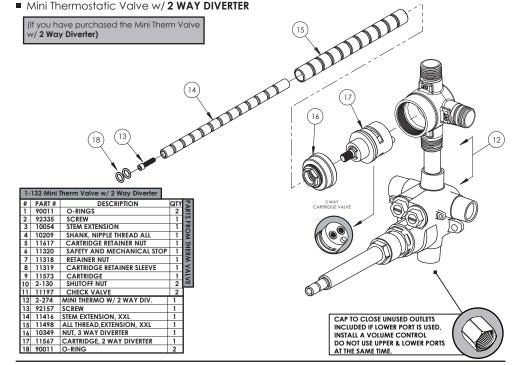
1

NUT, 3 WAY DIVERTER

CARTRIDGE, 3 WAY DIVERTER

10349

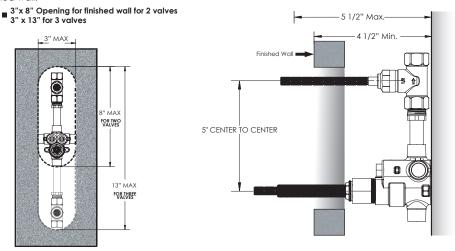
18 90011 O-RING



ROUGH IN DIMENSIONS / ROUGH IN VALVE TO FRAME

(All dimesions shown are to the nearest 1/16")

Once the desired location has been determined, install a **cross support beam to wall studs**. Ensure to level the **valve & secure to the cross support**. The valve should be level horizontally, vertically, & parallel to finished wall.



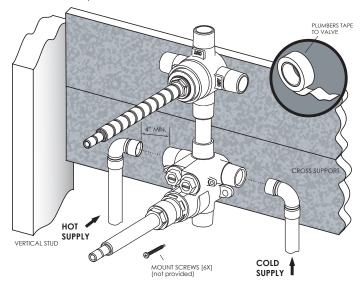
Pre-assemble fittings before attaching to cross support. Attach the "COLD" Inlet to Cold Supply & "HOT" Inlet to Hot Supply using copper supply lines.

Thoroughly flush supply lines to remove any debris prior to

installation to pevent damage & malfunction of

IMPORTANT: Installation to pevent at thermostatic cartridge.

Use **plumber's tape** or thread sealant to all threaded port joints & attach to valve. All soldering/brazing of fittings shall be performed a minimum of **4**" away from valve.



WARNING:

DO NOT APPLY HEAT DIRECTLY TO THE VALVE AS THIS MAY DAMAGE RUBBER & PLASTIC SEALS & WILL AVOID WARRANTY. TURN ON WATER SUPPLIES TO VALVE & CHECK FOR LEAKS

MAINTENANCE



THERMOSTATIC CARTRIDGE

Carefully remove the trim and plate and place in a safe location for the time being. Use a flat head screwdriver to shut off the water supply to the cartridge by turning the temporary shutoff screws clockwise until screw stops. Ensure to close both the hot and cold sides of the water supplies. Remove extensions to gain access to the cartridge nut. Unscrew the cartridge nut using a 11/16" plumbers wrench or adjustable wrench, if possible.

Gently pull the cartridge out of the housing body (rotating cartridge while pulling may assist in removing). Clean the cartridge by rinsing it under running water to remove any possible debris. Wipe cartridge and housing seat clean and apply a thin film of NON-PETROLEUM GREASE to o-rings.

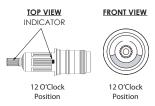
NOTE: Do NOT use oil based lubricants as this may cause the o-rings to dry out over time and crack.

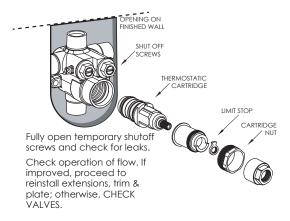
How to calibrate temperature:

To limit the amount of HOT water allowed to mix with cold water, use a 4 " long flat blade screw driver to remove the stem. Remove the limit safety stop and rotate the stem counterclockwise till the desired maximum temperature is found. The maximum temperature is factory set at 120°F. Once the desired temperature is set, reinstall the safety stop at the maximum position. Proceed installing the stem and trim.

Carefully install the cartridge back into the housing body and tighten nut to 10 ft-lbs (13,56 nm).

ATTENTION: Ensure the INDICATOR NOTCH on cartridge and GREEN LINE on stem are orientated at the 12 O'Clock position. The Temerature stop must be in the 12 O'Clock position.





CHECK VALVES

Shut off water supply at main or upstream from valve body. Remove check valve nut with a 5/8" (16mm) socket wrench from the body.

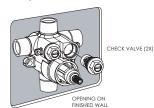
If check valve needs replacement, forcefully remove check valve w/ needle nose pliers. Wipe check valve and housing seat clean and apply a thin film of NON-PETROLEUM GREASE to o-rings. Install new check valves by pressing them in evenly & ensuring check valve snaps into place.

NOTE: Do NOT use oil based lubricants as this may cause o-rings to dry out over time and crack.

Tighten check valves to 10 ft-lbs (13,56 nm).

Reinstate water supply from upstream and check for leaks.

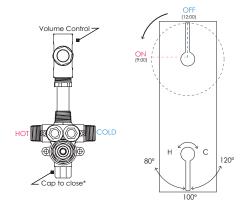
Check operation of flow. If improved, proceed to reinstall extensions, trim, & plate; otherwise, see PARTS BREAKOUT for any replacement parts needed.



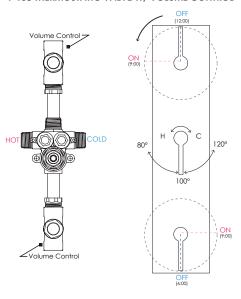
VALVE TURN MECHANICS

RECOMMEND INSTALLING FUNCTIONALITY AS SHOW BELOW, 1, 2 & 3 CONSEQUENTIALY.

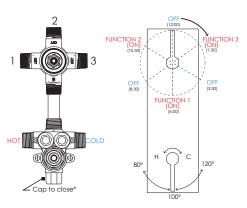
1-116 THERMOSTATIC VALVE W/ VOLUME CONTROL



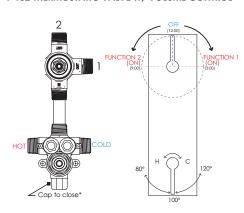
1-138 THERMOSTATIC VALVE W/ VOLUME CONTROL



1-117 THERMOSTATIC VALVE W/ VOLUME CONTROL



1-132 THERMOSTATIC VALVE W/ VOLUME CONTROL



PHYLRICH®

Defining Luxury Since 1959