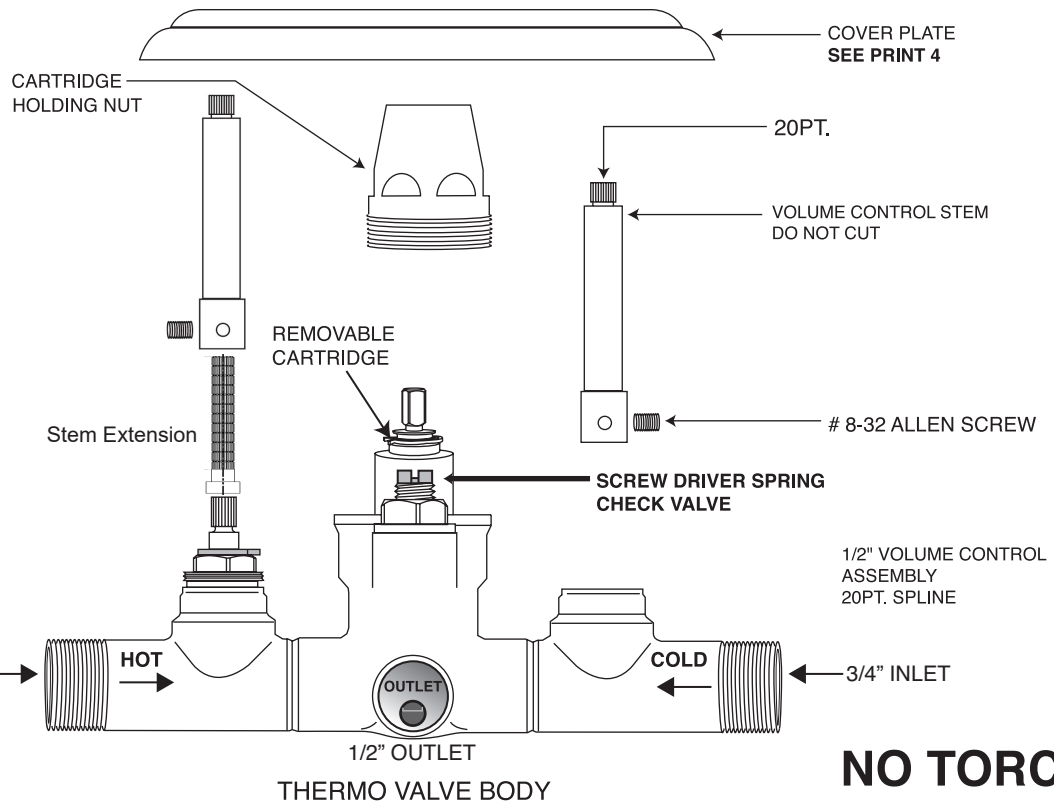
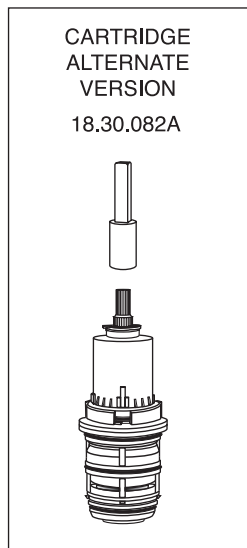
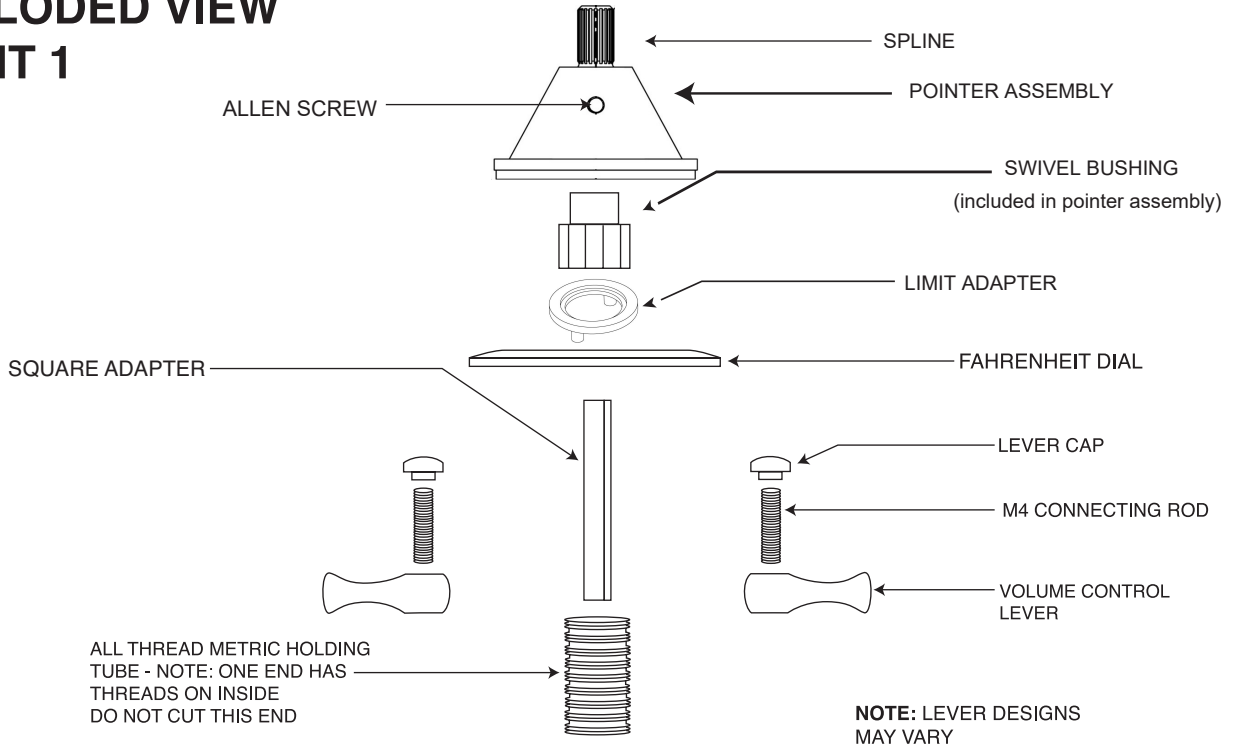


AMERICAN

AMERICAN

# SIGMATHERM 1/2" FULL-FLOW WITH DUAL EXITS EXPLODED VIEW THERMOSTATIC VALVE

## EXPLODED VIEW PRINT 1



**NO HEAT**

**NO TORCH**

American Faucet & Coatings Corporation

# NEW 1/2" FULL FLOW THERMOSTATIC INSTALLATION INSTRUCTIONS

- STEP 1** Read the entire booklet first. Verify you have the 5 required installation prints. **FAILURE TO FOLLOW INSTRUCTIONS MAY CAUSE DAMAGE OR IMPROPER OPERATION AND VOID THE WARRANTY.**
- STEP 2** Connect the hot water to the side with red mark (+) and the cold water to the side with the blue mark (-). SEE CAUTIONS 1-2-3. Inlets are 3/4" NPT (SEE PRINT # 1/2/3). Hot and cold inlets are clearly marked. **DO NOT REVERSE CONNECTIONS- THE UNIT WILL NOT WORK CORRECTLY.**
- STEP 3** The depth of the valve should be installed using print # 2. Valve is shipped with maximum extension.
- STEP 4** Connect the exit(s) required to 1/2" NPT copper pipe. (SEE PRINT # 3)  
Inlet shut-off valves are screwdriver spring check valves. The volume controls are 1/4 turn ceramic disk cartridges. Any debris in the cartridges may allow exits to drip. If you only need (1) exit, properly plug the 2nd exit. **DO NOT USE HEAT OR TORCH.**
- STEP 5** Open both screw driver spring check valve inlet ports and pressure test all connections with water. Check for flow and leaks before closing the walls.
- STEP 6** Be sure the hot water heater is connected, clean and operational. Before you calibrate the cartridge, set the hot water to approximately 130° - 140° Fahrenheit. If there is no hot water, you cannot test the system for proper performance.
- STEP 7** The center of the valve is where the thermostatic cartridge is located. The cartridge only controls the mixed water temperature and must be "calibrated" to protect the end user while bathing. Calibration is simple but will take 5 to 7 additional minutes to set the mixed water temperatures to hot and cold limits. You control the temperature range of mixed water through calibration.
- Rotate the square (or spline adapter A) tube located on the thermo cartridge (SEE PRINT # 2) all the way to the right (clockwise) and you have the maximum cold water. Reverse (counter-clockwise) and you have the maximum incoming hot water. The set point is up to you. Feel the mixed water at the exit. Let water run for 2 or 3 minutes to confirm comfort level. Install the cover plate. Dial and pointer (SEE PRINT # 1) The dial represents a numerical location i.e. 80 where you will place the red pointer to remind you the bather of comfort temperature location.
- STEP 8** HIGH TEMP LIMIT SET POINT TRIM! The combined trim (The Dial Pointer Assembly) has a built-in stop and a manual override which limits the distance the handle will be allowed to turn in the hot direction. If you have calibrated the valve correctly, this **CAN** prevent children, elderly, and handicapped people from the danger of excessive hot water.

You are now ready to enjoy your new Eurotherm system.

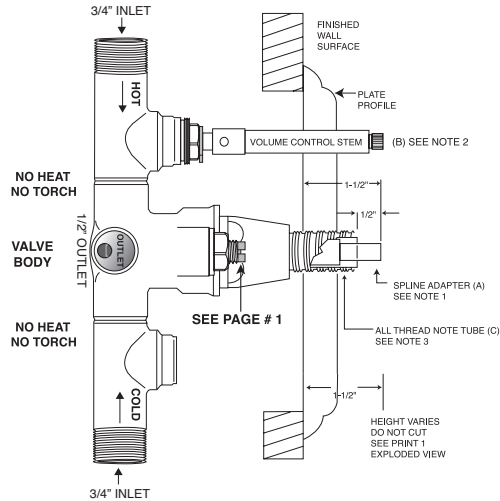
American Faucet & Coatings Corporation

**PROFILE VIEW  
PRINT 2**

**THERMOSTATIC VALVE**

PROFILE VIEW OF INSTALLED ROUGH VALVE ONLY  
1/2" FULL FLOW VALVE AVAILABLE WITH SINGLE OR DUAL EXITS

SEE PRINT 4 ROUGH VALVE INSTALLATION PROCEDURE



INSTALLER NOTES: THIS VALVE MUST BE INSTALLED AS SHOWN ABOVE

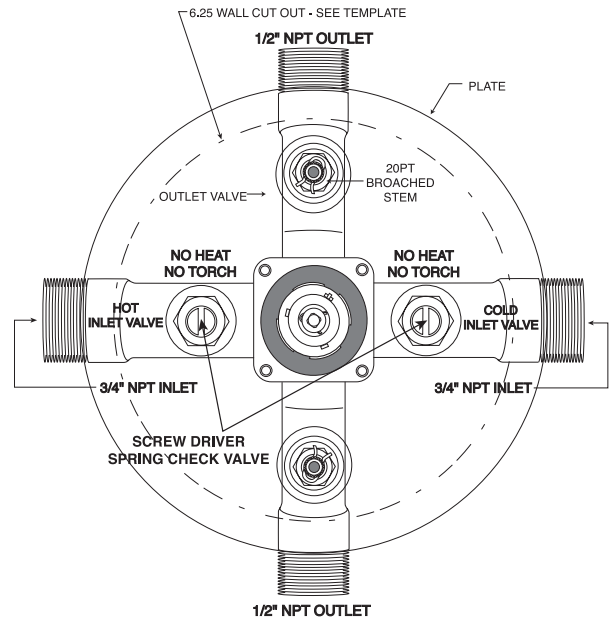
(1) FROM THE FINISHED WALL TO THE END OF THE SPLINE ADAPTER (A) ALLOW 1-1/2" - PART SHOULD NOT BE CUT - EXTENSIONS ARE AVAILABLE. THIS SQUARE TUBE IS SHIPPED WITH THE TRIM

(2) VOLUME CONTROL STEM (B) CANNOT BE CUT - WE HAVE EXTENSIONS IF VALVE BURIED TOO DEEP.

**FULL FACE  
PRINT 3**

**THERMOSTATIC VALVE**

1/2" FULL FLOW WITH DUAL EXITS

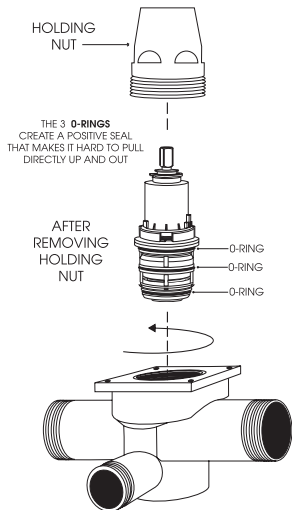


NOT A TEMPLATE DO NOT SCALE DRAWING

NO HEAT NO TORCH FACTORY TESTED AND

**PRINT  
5**

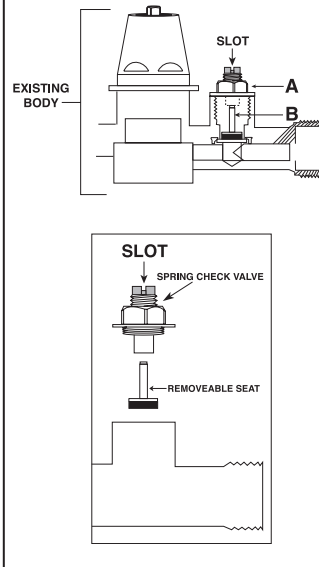
**THERMOSTATIC 1/2" CARTRIDGE  
REMOVABLE FROM THE TOP**



To remove cartridge from body: Rotate cartridge counter clockwise only.  
To re-set: (Re-seal - Push straight into body and secure with holding nut)

**PRINT  
7**

**SPRING CHECK VALVE**



**PRINT  
6**

**INSTALLATION AND PROPER ALIGNMENT OF CARTRIDGE  
FOR 2 EXIT BALANCED TEMPERATURE CONTROL**

