



Whitehall Manufacturing®
Manufacturer of Healthcare and Rehabilitation Products since 1946

Model 8194

RECESSED STAINLESS STEEL DIALYSIS
BOX WITH BACKFLOW PREVENTER,
TRAP PRIMER, THERMOSTATIC MIXING
VALVE AND WASTE



IMPORTANT

Important: Some options may slightly alter installation. To ensure proper installation review the manual thoroughly and verify rough-ins before beginning any work. File this manual with the owner or maintenance personnel upon completion of installation.

MGI Engineered Plumbing Products are designed in accord with applicable National Codes and Standards, which may include UPC, ANSI, and ASSE. Installers should use industry standard practice for details not covered within Manual. Prior to installation, supply lines must be flushed of all foreign material such as pipe dope, chips, or solder. Debris or foreign material in water supply may damage valve. An appropriate thread sealant is recommended on all threaded waste and supply connections to reduce the possibility of leaks.

Industry standard wall backing, for wall hung fixtures, is required. Installer provided wall anchors and wall anchoring hardware must be appropriate for wall construction.

ANSI, UFAS or ADA compliance is subject to the interpretation and requirements of the local code authority and is the responsibility of the installer for verification.

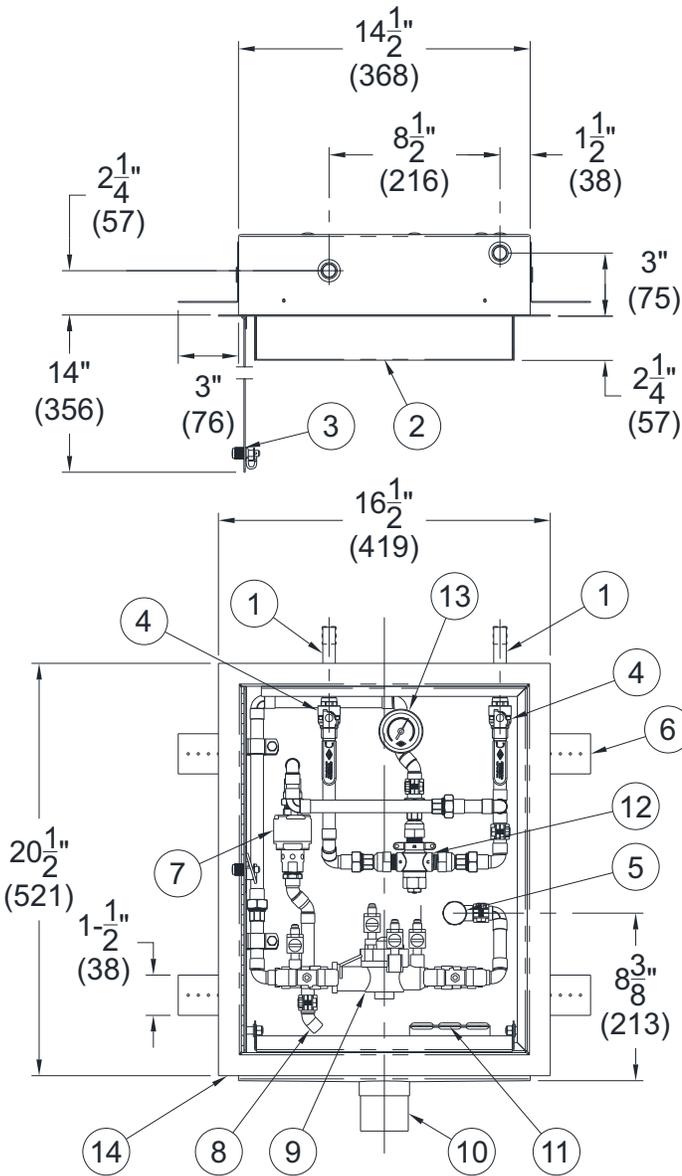
Electrical receptacle(s) must be wired to a GFCI protected circuit. Fixture must be earth grounded per N.E.C. (National Electrical Code).

**TECHNICAL ASSISTANCE TOLL FREE TELEPHONE NUMBER:
800-743-8259**

Technical Assistance E-mail: Fieldservice@acorneng.com



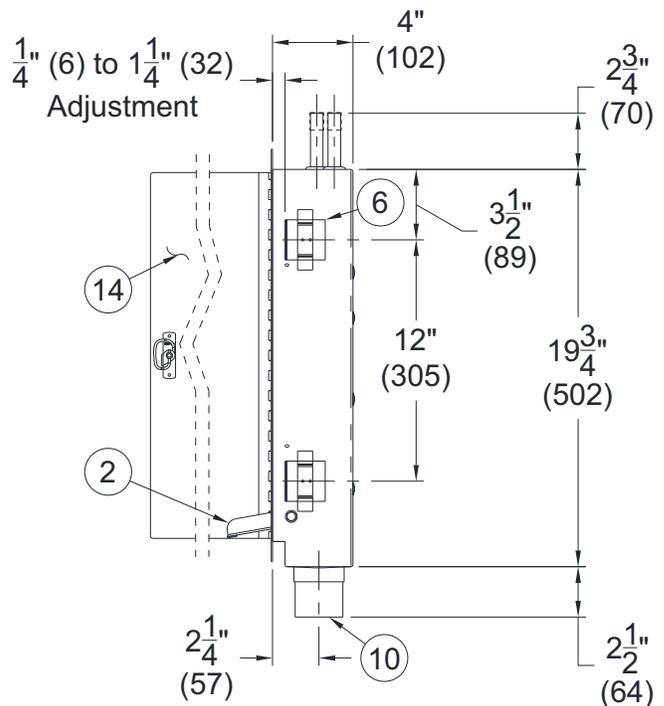
TECHNICAL DETAIL



NOTES:

1. 1/2" NCT SUPPLY INLETS (CAPPED FOR SHIPPING)
2. FOLD-DOWN DRIP TRAY (SEE ITEM [9] ON PAGE 3)
3. KNURLED DOOR KNOB
4. SUPPLY SHUT-OFF BALL VALVES
5. 3/4" MALE HOSE CONNECTION (SHOWN CAPPED)
6. (4) ADJUSTABLE MTG TABS FOR WALL THICKNESS
7. TRAP PRIMER
8. TRAP PRIMER OUTLET (AIR GAP)
9. BACKFLOW PREVENTER
10. 2" IPS (2-3/8" OD) WASTE CONNECTION
11. DISCHARGE HOSE BRACKET
12. THERMOSTATIC MIXING VALVE (**SEE NOTE)
13. TEMPERATURE GAUGE
14. WALL FLANGE/ DOOR FRAME (SHIPPED LOOSE)

****NOTE:** Mixing Valve is Factory Pre-set to 77°F. Verify Requirements. Refer to Temperature Adjustment Detail on page 5 as required.



Important: Trap Primer responds to changes in cold water supply line pressure of +/- 3 PSI to prime drain trap way. Designer / Installer must ensure cold water supply line to unit includes connections to other fixture(s) that are used with frequency to initiate Trap Primer device.

Backflow Preventer conforms with following standards:
 USC Manual 8th Edition
 ASSE No. 1013
 AWWA C511-92
 CSA B64.4
 IAPMO File No. 156

Backflow Preventer is certified for the following:



Trap Primer is certified for the following:



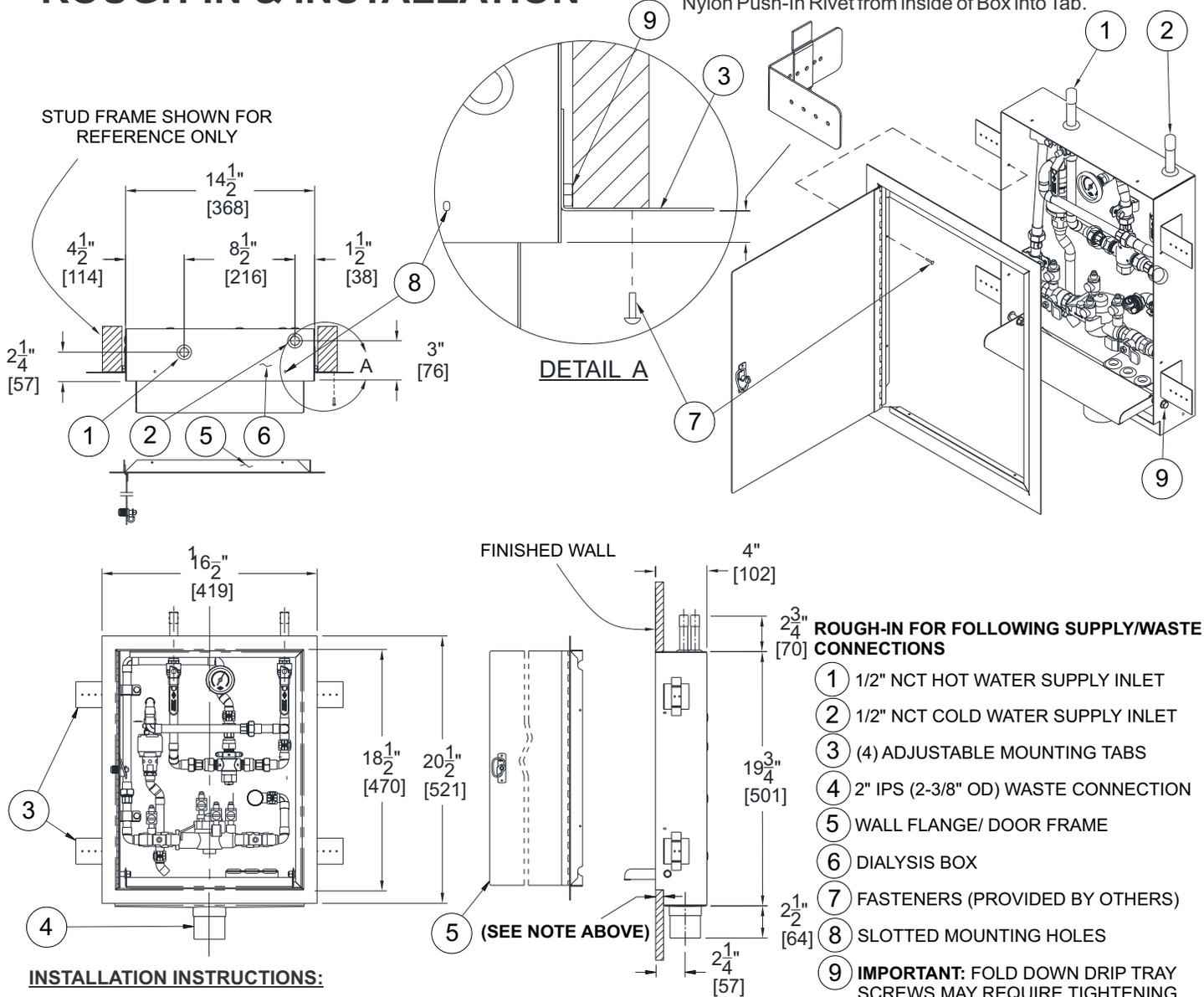
Thermostatic Mixing Valve is certified for the following:





ROUGH-IN & INSTALLATION

NOTE: Mounting Tabs [3] are adjustable to suit Wall thickness from 1/4" to 1-1/4" by affixing Nylon Push-In Rivet from inside of Box into Tab.



- ROUGH-IN FOR FOLLOWING SUPPLY/WASTE CONNECTIONS**
- 1 1/2" NCT HOT WATER SUPPLY INLET
 - 2 1/2" NCT COLD WATER SUPPLY INLET
 - (4) ADJUSTABLE MOUNTING TABS
 - 2" IPS (2-3/8" OD) WASTE CONNECTION
 - WALL FLANGE/ DOOR FRAME
 - DIALYSIS BOX
 - FASTENERS (PROVIDED BY OTHERS)
 - SLOTTED MOUNTING HOLES
 - IMPORTANT:** FOLD DOWN DRIP TRAY SCREWS MAY REQUIRE TIGHTENING PRIOR TO INSTALLATION TO ENSURE TRAY CAN REMAIN IN AN UPRIGHT ORIENTATION WHEN USED AS A SPLASH GUARD.

INSTALLATION INSTRUCTIONS:

- A - REMOVE THE WALL FLANGE/ DOOR FRAME [5] SHOWN FROM THE BOX [6].
- B - SELECT RECESSED MOUNTING LOCATION AND BLOCK OUT AND/OR PROVIDE ADEQUATE WALL BACKING OR FRAMING.
- C - ADJUST ALL (4) MOUNTING TABS [3] TO SUIT FINISHED WALL THICKNESS,, POSITION AND SECURE THE BOX TO THE STUD FRAMING OR WALL BACKING WITH THE BOX OPENING FLUSH WITH THE FINISHED WALL. FASTENERS PROVIDED BY OTHERS [7]. PLUMB AND LEVEL AS REQUIRED.
- D - MAKE UP SUPPLY AND WASTE CONNECTIONS TO [1] VALVE INLET 1/2" NCT HOT WATER SUPPLY, TO [2] VALVE INLET 1/2" NCT COLD WATER SUPPLY, AND TO 2" IPS (2-3/8" OD) [4] WASTE OUTLET. TEST FIXTURE FOR LEAKS AND OPERATION.
- E - ORIENT DOOR HINGE TO DESIRED SIDE FOR OPENING DOOR.
- F - USING FASTENERS PROVIDED BY OTHERS [7] TO INSTALL WALL FLANGE/ DOOR FRAME [5] TO THE RECESSED DIALYSIS BOX [6]. DIALYSIS BOX IS SLOTTED [8] TO ALLOW FOR ADJUSTMENT FOR FINISHED WALL THICKNESS.

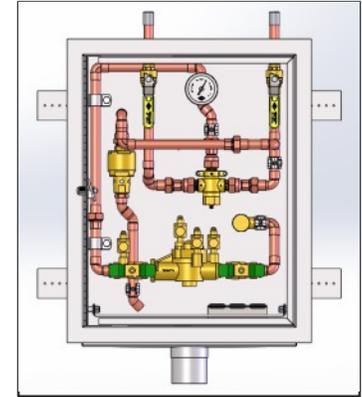


OPERATION AND MAINTENANCE

IMPORTANT: Owner/ Installer is responsible for checking applicable state and local codes to ensure that the Backflow Preventer is installed in compliance. This includes testing requirements and proper installation height above the ground. Thermostatic Mixing Valve is factory pre-set at 77 F. Verify requirements before altering temperature settings since they may affect patient health and safety. Thoroughly test outlet water temperature.

Operation

- Thermostatic mixing valve is preset to 77°F* and must be open and connected to supply and drainage hoses. If required, adjust the thermostatic mixing valve [3] to preferred temperature. *Minimum: Valve may not properly mix at lower temperature. See parts breakdown for instructions.
- The supply shut-off ball valves [2] is normally open. This valve is intended to isolate the system for routine maintenance to the trap primer and backflow prevention device. **IMPORTANT:** *Ball Valve [2] must remain open for trap primer device to activate.*
- The first ball valve on the backflow preventer [9] is normally open. This valve is used for isolation during testing and certification of the backflow preventer.
- The second ball valve on the backflow preventer [10] is the on/off valve. This valve must be open during dialysis service and then closed prior to removal of the supply hose to the dialysis machine.
- Ensure you have a proper connection from the dialysis machine supply hose and the male hose thread connection on the 8194, prior to opening the second valve on the backflow preventer.
- Fold the drip tray [7] down to help eliminate any spills onto cabinetry or finished surfaces from the dialysis machine discharge line. Fold the drip tray to the vertical position prior to closing the access door.
- The dialysis machine discharge hose should be placed in the supplied hose bracket [8] to maintain the proper air gap from sanitary drain.



Maintenance

Backflow Preventer

- This product must be tested and certified prior to service. Certification must be done after final connection and prior to service.
- This product must be tested and certified periodically in compliance with local codes, but at least once per year or more as service conditions warrant.
- Refer to WATTS® LF009-QT 1/2" BRONZE REDUCED PRESSURE ZONE manual for all testing and maintenance guides. (<https://www.watts.com>)

Trap Primer (optional)

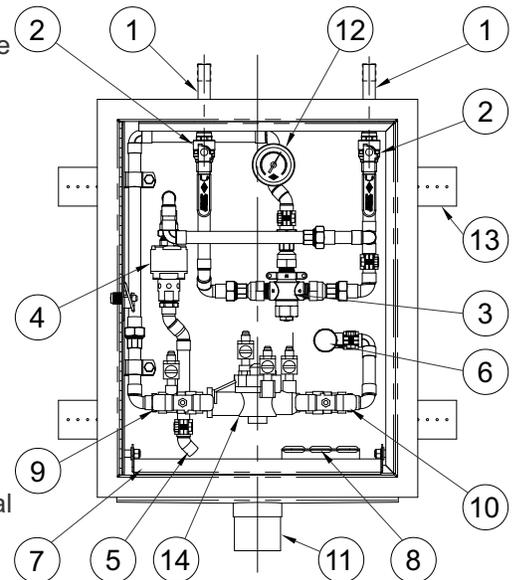
- This product may need regular cleaning, maintenance or replacement of the screen due to sediment buildup.
- Refer to JAY R. SMITH MFG. CO.® FIGURE NO. 2694 trouble shooting and maintenance guides. (<https://www.jrsmith.com>)

Shut-Off Ball Valve

- Exercise this valve regularly to eliminate the valve from locking in position due to corrosion or hardness of the water supply.

Cleaning

Use only cleaning agents intended for metals such as stainless steel, copper and brass. Do not use any cleaning agents that may cause an allergic reaction to these metals. Warranty will not cover any deterioration of the products due to neglectful cleaning processes.



Parts List

1. 1/2" NCT SUPPLY INLETS (CAPPED FOR SHIPPING)
2. SUPPLY SHUT-OFF BALL VALVES
3. THERMOSTATIC MIXING VALVE
4. TRAP PRIMER
5. TRAP PRIMER OUTLET
6. 3/4" MALE HOSE CONNECTION (SHOWN CAPPED)
7. FOLD-DOWN DRIP TRAY
8. DISCHARGE HOSE BRACKET
9. FIRST BACKFLOW PREVENTER VALVE
10. SECOND BACKFLOW PREVENTER VALVE
11. 2-3/8" O.D. WASTE CONNECTION
12. TEMPERATURE GAUGE
13. (4) MOUNTING TABS
14. BACKFLOW PREVENTER

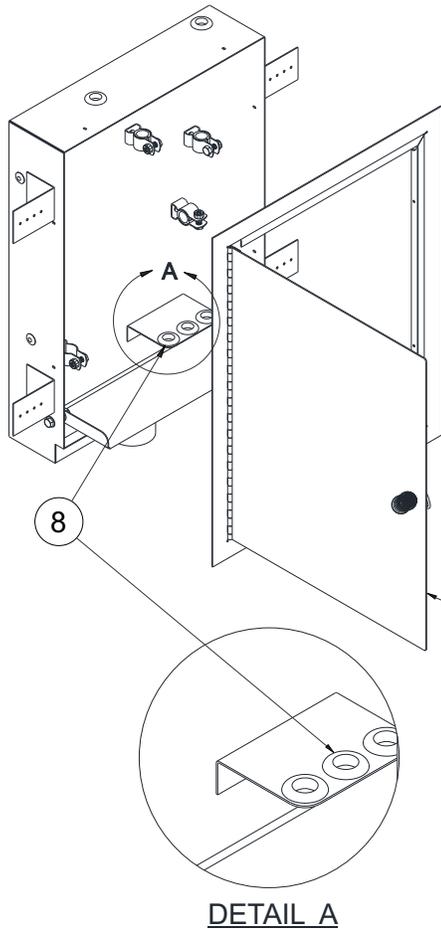


PARTS BREAKDOWN

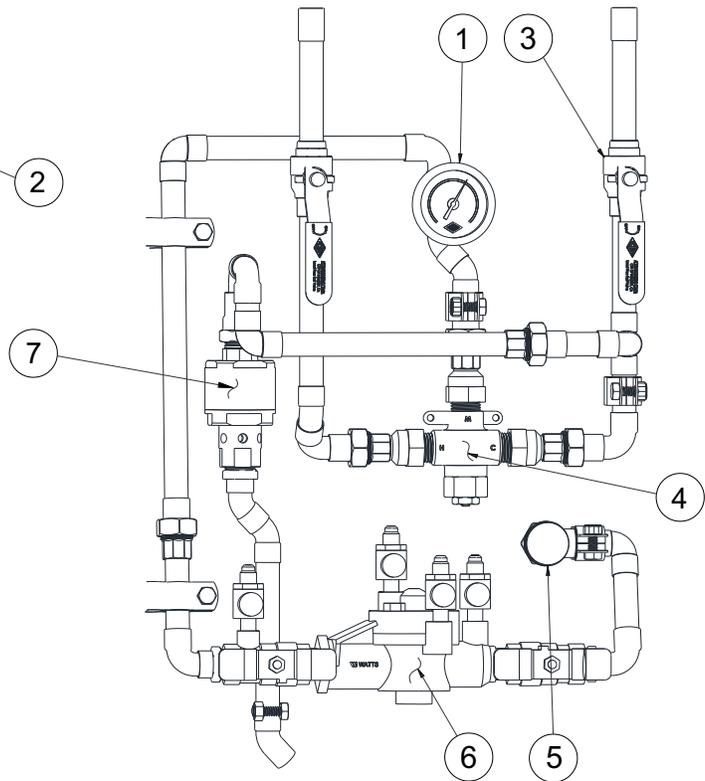
ITEM#	PART NUMBER	DESCRIPTION
1	CTA8194B-001	TEMPERATURE GAUGE
2	CTA81945-002	WALL FLANGE/ DOOR FRAME ASSEMBLY (INCLUDES LATCH)
3	7841-001-000	SUPPLY SHUT-OFF BALL VALVE
4	7802-137-001	THERMOSTATIC MIXING VALVE (SEE NOTE A)
5	1818-425-000	3/4" MALE HOSE CONNECTION
6	0540-029-000	BACKFLOW PREVENTER ASSEMBLY (SEE NOTE B)
7	0540-017-000	TRAP PRIMER (SEE NOTE C)
8	0571-003-000	RUBBER GROMMET

NOTES:

- A. Thermostatic Mixing Valve is FACTORY PRESET AT 77 F.
- B. For additional technical data, refer to Original Equipment Manufacturer model: WATTS® LF009-QT 1/2" BRONZE REDUCED PRESSURE ZONE, "RPZ" VALVE.
- C. For additional technical data, refer to Original Equipment Manufacturer model: JAY R. SMITH MFG. CO.® MODEL NO. 2694.
- D. **Note:** Nylon Push-in Rivet for Mounting Tabs (not shown) is PN WH506018-000



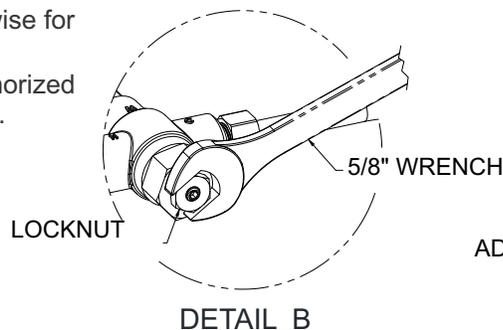
DETAIL A



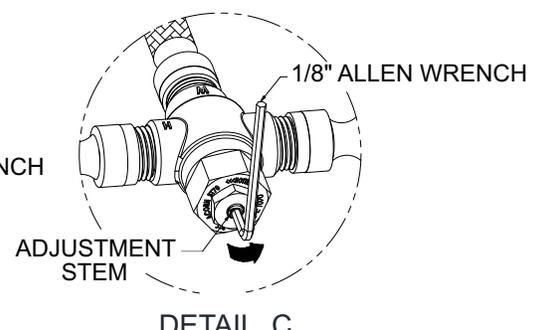
TEMPERATURE ADJUSTMENT:

IMPORTANT: Thermostatic Mixing Valve is factory pre-set at 77 F. Verify requirements before altering temperature settings since they may affect patient health and safety. Thoroughly test outlet water temperature.

1. Loosen locknut. DETAIL B
2. Turn faucet on so water temperature can stabilize.
3. Using 1/8" allen wrench turn adjustment stem counter-clockwise for hotter or clockwise for colder outlet temperature. DETAIL C
4. Tighten locknut to prevent any unauthorized or accidental temperature adjustment.
5. Re-check temperature.



DETAIL B



DETAIL C