

1905-CP and 1907-CP Thermostatic Valves

Installation Instructions

Note: Installation should be in accordance with accepted plumbing practices. Flush all piping thoroughly before installation.

To INSTALL

- Position mixer 1-15/16" ± 1/2" [49mm ± 13mm] from inlet center to finished wall surface. The tub outlet port is marked "TUB" and should face down. Facing front of mixer, connect hot water to left side and connect cold water to right side. The valve has "C" and "H" cast into the body near the appropriate inlet ports.
- Valve is factory-set for standard inlets. If **reversed inlets** are required due to back-to-back installation (Cold water supply on the left and Hot water supply on the right), follow instructions a – d below:
 - Connect **cold inlet to hot port** ("H") and **hot inlet to cold port** ("C"). **Note:** Do not turn valve upside down. If valve is upside down, water will not flow properly through tub spout or showerhead.
 - Turn water off with checkstops, remove bonnet and cartridge.
 - Reinstall cartridge. "H" on the cold side of the valve body and "C" should be on the hot side of the valve body.
 - Reinstall bonnet with high temperature limit stop on it.

Note: Be certain that valve opens in full cold!

 - Hot and Cold inlets should be re-identified for reversed inlets to avoid confusion during future maintenance.
- For **tub and shower installations** (see Figure 1). Pipe bottom outlet port "TUB" directly to the diverter tub spout. The mixer body is designed to operate without the use of a twin ell. Pipe top outlet port "S" to the showerhead.
- For **shower only installation** (see Figure 2). Pipe top outlet port "S" directly to the showerhead and plug bottom port.
- Rough-in guide installation:
 - When piping installation is complete and before doing the finished wall, slide rough-in guide onto the mixer stem and press it into place (see Figure 4).

- Peel backing off gaskets and attach gaskets to inside of dial plate. Attach indicator plate gasket to the back of the trim plate making sure horizontal holes on the gasket matches horizontal holes on the trim plate. Indicator plate locator hole matches diagonal hole on the trim plate. Peel off backing of the trim plate gasket and attach to the inside top edge of the trim plate. Gasket should be approximately 1/16" beyond the plate edge.
 - Install trim plate.
 - Snap on the indicator plate. Guide on the back of the plate goes into the locator hole.
 - Install sleeve O-ring on the bonnet. Slide sleeve on the bonnet.
- CAUTION: Indicator plate must be installed before sleeve.**
- Install handle and tighten the set screw.
- CAUTION:** When soldering during installation process, do not heat the valve any higher than the temperature required to flow solder. Excessive overheating of the valve may cause damage to the cartridge mechanism. **By following this recommendation, you will be able to solder the valve without removing either the cartridge or the checkstop internals.** If either brazing or resistance (electric) solder is to be used, all valve internals must be removed.
- Maximum temperature setting adjustment (see Figure 5) must be set on the job to in no case greater than 110°F (43°C). The high temperature limit stop is located on the bonnet. Rotate handle to the maximum desired outlet temperature. With an open-end wrench, screw high temperature limit stop into bonnet until it touches stem's shoulder. Close valve and open it to full hot to verify settings.

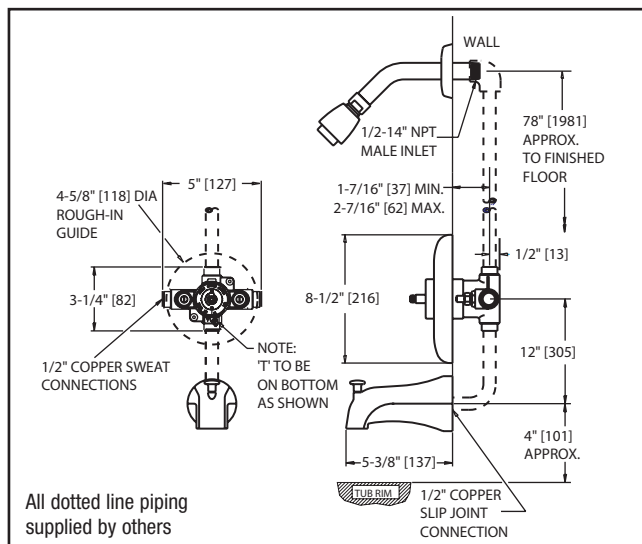


Figure 1: Rough-in Dimensions - Tub & Shower

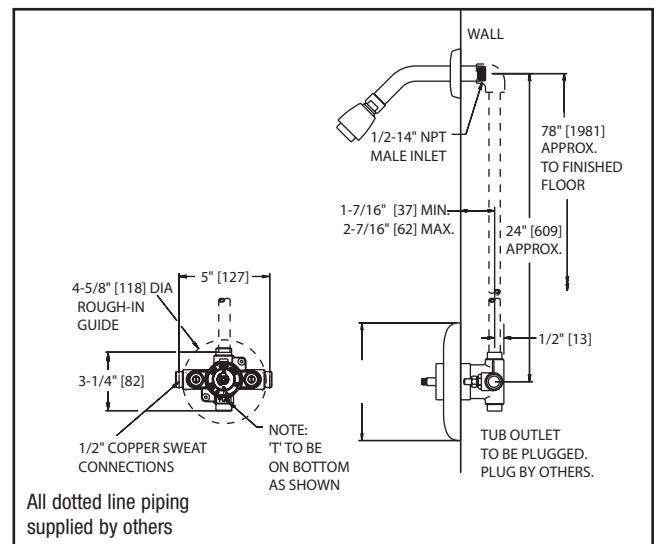


Figure 2: Rough-in Dimensions - Shower Only

See specification drawing for all other dimensions.

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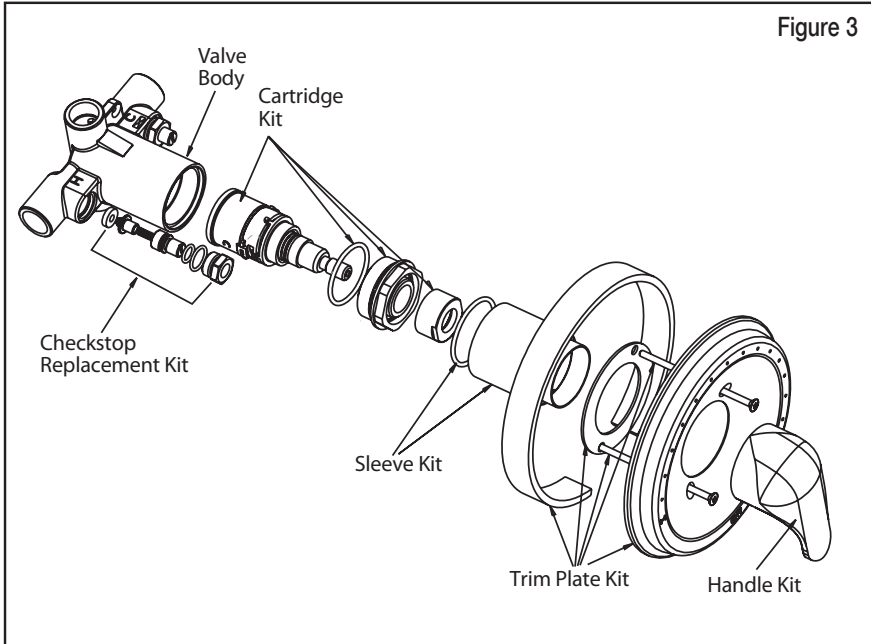


Figure 3

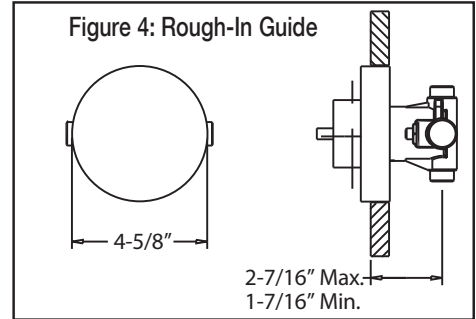


Figure 4: Rough-In Guide

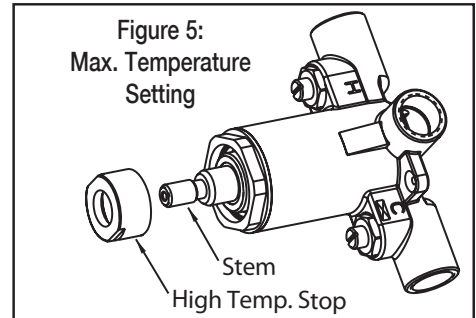


Figure 5:
Max. Temperature
Setting

SPECIFICATIONS

Valve Construction: Combination mixing valve, with heavy cast bronze body and brass stem. Concealed adjustable high temperature limit stop. Available with ADA-compliant ABS or metal lever handle.	
Connections	1/2" Sweat Inlet/Outlet
Capacity	4 gpm @ 45 psi ΔP 50/50 mix
Maximum Hot Water Supply Temperature	190°F (88°C)
Minimum Hot Water Supply Temperature (Approach Temperature)	10°F (5.5°C) above set point
Maximum Operating Pressure	125 psig (862 kPa)
Temperature Ranges (for +/- 3°F performance)	ASSE 1016 Type T/P: 90-110°F (32-43°C) ASSE 1016 Type T: 80-120°F (27-49°C)
High Temperature Limit Stop	Adjustable (factory set at 110°F [43°C])
Maximum Static Pressure	125 psig (862kPa)
Minimum Flow	0.5 gpm (1.89 L/min)
Approval Standards	ASSE 1016, ASME 112.18.1, CSA B125.1
Listing	ASSE 1016, IAPMO cUPC
Shipping Weight	3.5 lbs. (1.6 kg)

All 1905-CP and 1907-CP combination mixing valves meet above performance specifications based on typical operating conditions as stated in ASSE 1016 (45 psi pressure differential, hot water supply between 140°-180°F (60°-82°C), cold water supply less than 70°F (21°C). If your operating conditions vary from those stated in the standard, performance may vary as well. Consult your local sales representative or a Chicago Faucet Representative to discuss your specific application. All Chicago Faucets thermostatic mixing valves perform to the requirements of standards ASSE 1016 and CSA B125.

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The Company extends the following limited warranty to the original user only.

WHAT DOES THIS WARRANTY COVER AND HOW LONG DOES IT LAST?

This Product is warranted against material manufacturing defects for a period of one (1) year from the date of Product purchase.

OTHER WARRANTIES

All other Products not covered above are warranted against material manufacturing defects for a period of one (1) year from the date of Product purchase.

WHAT THIS WARRANTY DOES NOT COVER

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HOW TO GET SERVICE

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LIMITATION ON DAMAGES

IN NO EVENT SHALL THE COMPANY BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT OR SPECIAL DAMAGES, WITHOUT LIMITING THE FOREGOING. THE COMPANY SHALL NOT BE LIABLE FOR ANY DAMAGE A PALM DEVICE OR ANY SOFTWARE OR RELATED EQUIPMENT ALLEGEDLY CAUSES TO A SYSTEM OR OTHERWISE. THE COMPANY'S AGGREGATE LIABILITY WITH RESPECT TO A DEFECTIVE PRODUCT AND THIS CONTRACT SHALL BE LIMITED TO AN AMOUNT EQUAL TO THE MONIES PAID TO THE COMPANY FOR THAT DEFECTIVE PRODUCT.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

HOW DOES STATE LAW APPLY?

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Restrictions Apply

Additional Technical Documentation

Please visit the product page at www.chicagofaucets.com for additional instructions in French and Spanish languages.

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