# **SPEAKMAN®**

SM-8401-P

# Installation, Operation & Maintenance Instructions

RAINIER COLLECTION COMBINATION SERIES

#### DESCRIPTION

Speakman Rainier Collection Combination Series unites the best products included in our Rainier Series. The combination begins with our anti-scald balanced pressure valve with integral diverter/volume control and integral stops, featuring a brass body and adjustable temperature limit stop. The metal construction wall plate, handle, and diverter/volume control handle are designed with definitive Rainier Collection styling. Piston type pressure balancing/ceramic regulating cartridge assembly with built-in check valves. Meets ASME A112.18.1 / CSA B125.1 & ASSE 1016 standards.

### **SPECIFICATIONS**

#### SM-8401-P ANTI-SCALD BALANCED PRESSURE VALVE:

CONNECTIONS: 1/2" Female Copper Sweat Inlets & Shower Outlet

12" NPT Female tub outlet

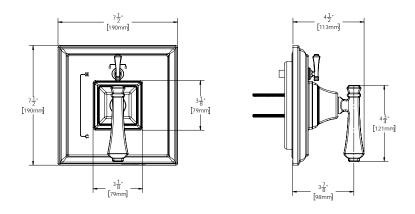
FLOW RATE: For use with Shower Heads rated at 2.0 gpm (7.6 L/min.) or higher.

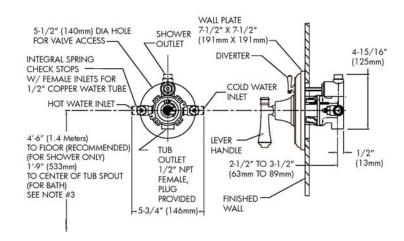
MEETS: ASME A112.18.1 / CSA B125.1 & ASSE 1016 standards

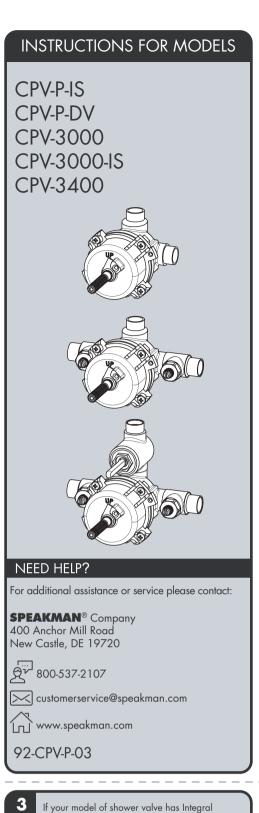
### INSTRUCTIONS

See individual product manuals for installation of the components and warranty information.

#### ROUGH-IN





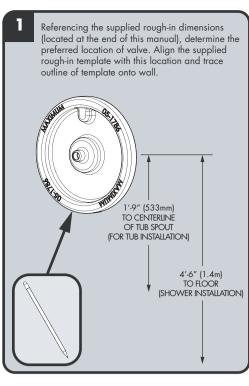


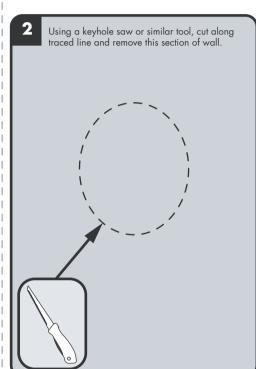


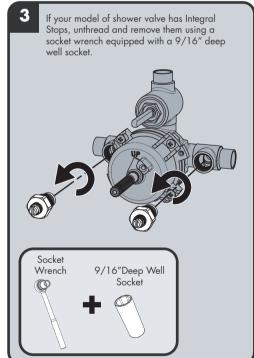


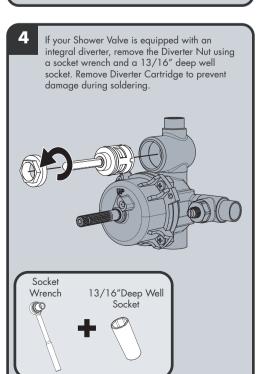
Install the Rough-In Template over the Shower Valve being sure the Rough-In Template sits flush against Shower Valve Bonnet. Following the rough-in

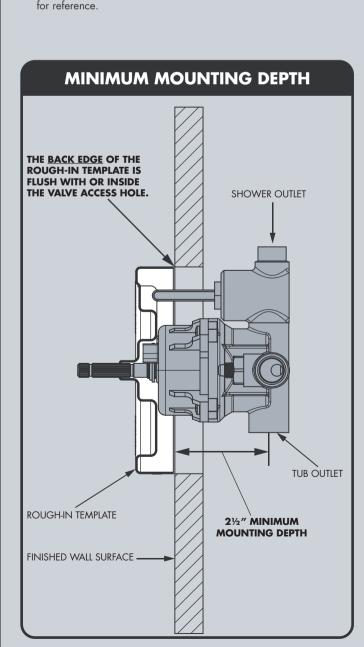
dimensions for your model of valve (located of the end of this manual) as well as the markings on the supplied rough-in template, install valve at proper depth. The distance from the centerline of the inlet/outlet ports of the valve assembly to the finished wall MUST be between 2½" - 3½". See images below

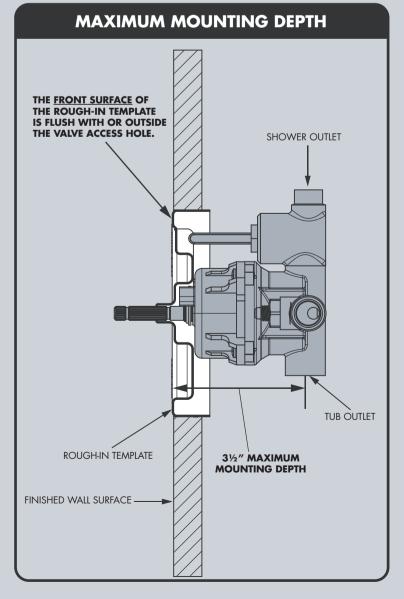


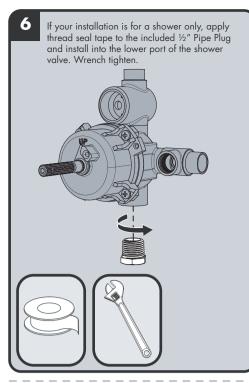


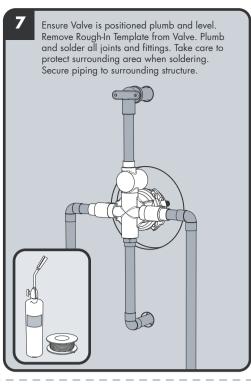


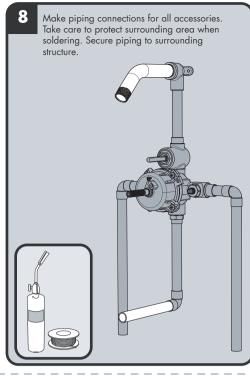


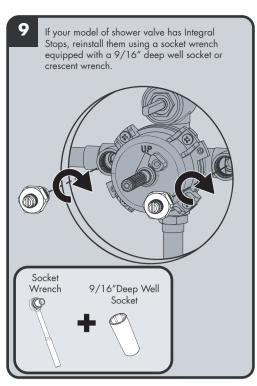


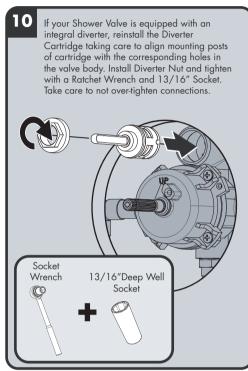


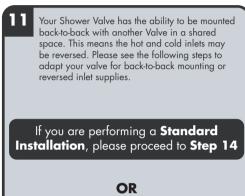




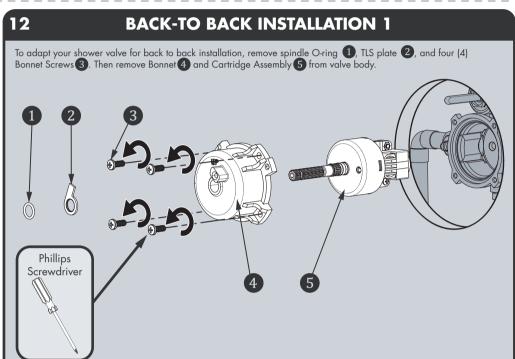


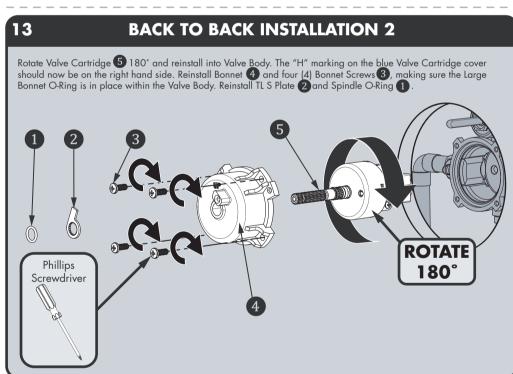


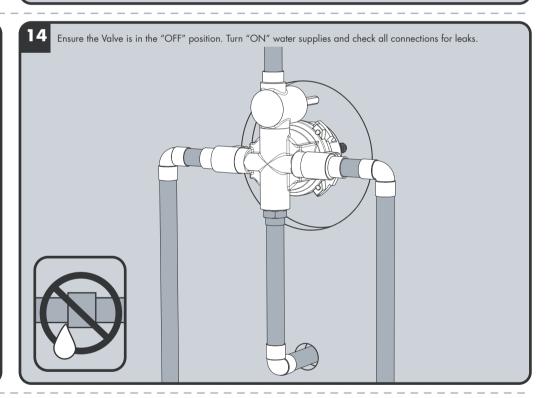








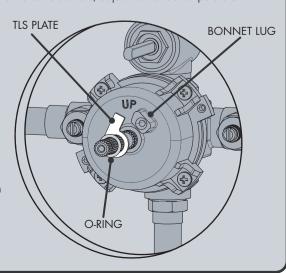


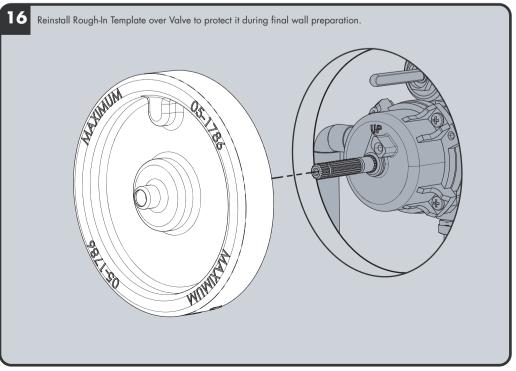


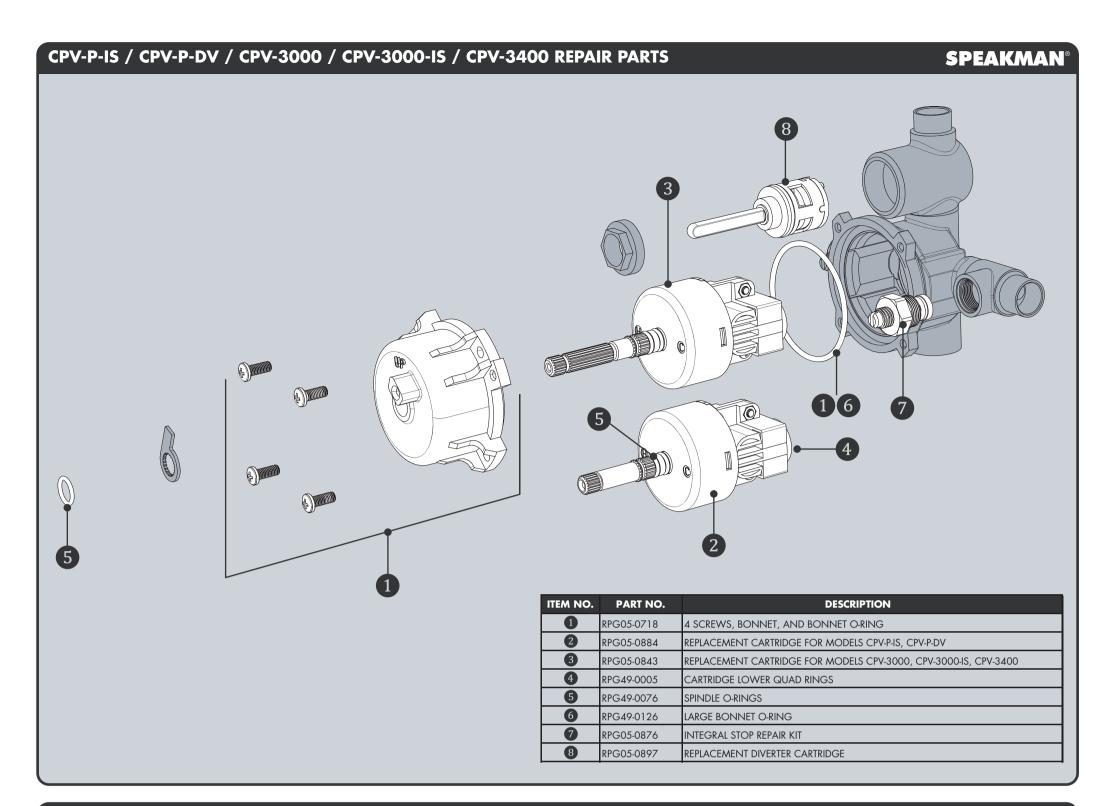
# TEMPERATURE LIMIT ADJUSTMENT

The maximum hot water temperature setting adjustment (Temperature Limit Stop (TLS)) of the valve has been factory set at 110° F. Important- Check each valve installation with a thermometer to make sure the maximum hot water temperature is set to the recommended setting of 110° F maximum. To lower the limit of the maximum hot water temperature the valve delivers, adjust the valve's temperature limit stop (TLS) plate.

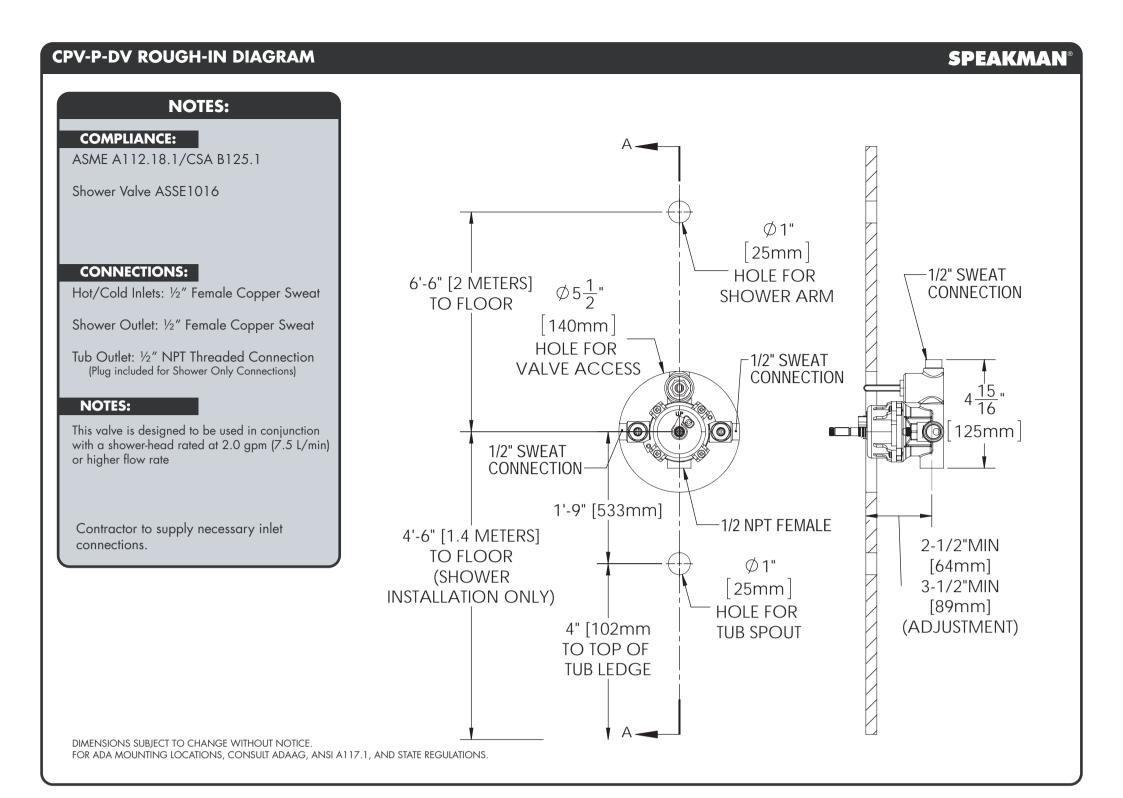
- Slip the retaining O-ring and the TLS plate towards the end of the spindle.
- With the water supplies on, rotate the valve spindle clockwise to the maximum desired hot water temperature.
- Position the TLS plate so it contacts the lug on the valve bonnet and therefore restricts the clockwise rotation of the spindle.
- Slip the retaining O-ring back into the groove of the spindle to hold the TLS plate in
- Rotate the spindle counter-clockwise to the "Off" position.

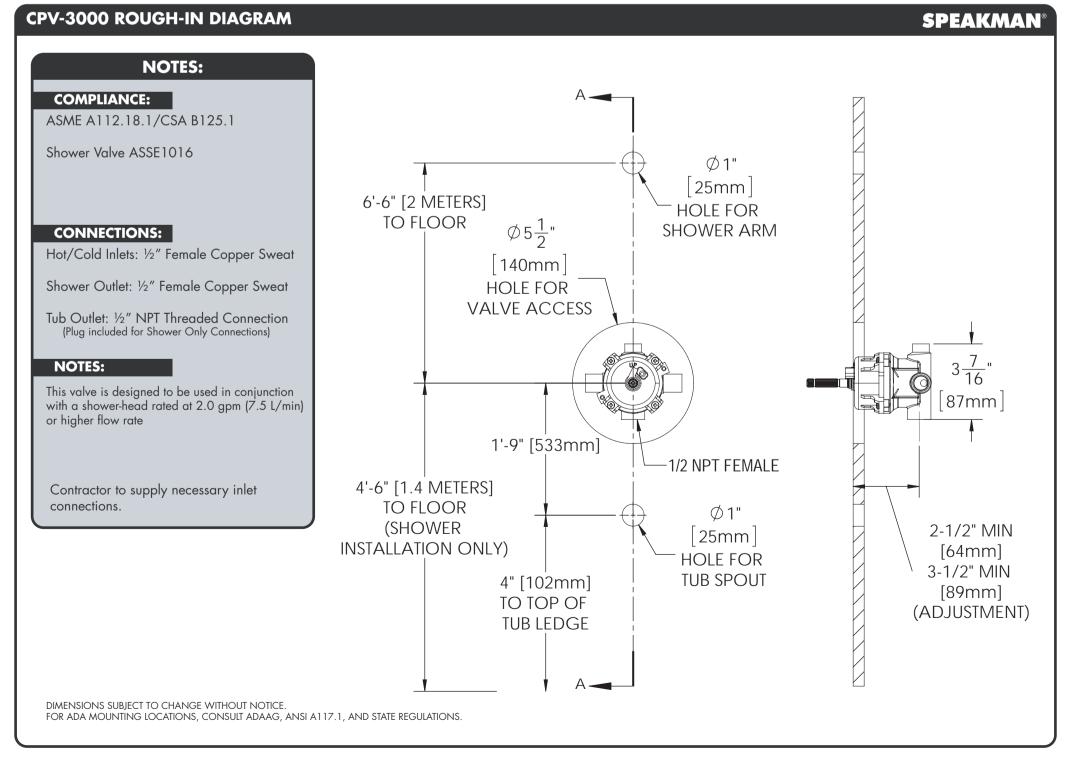


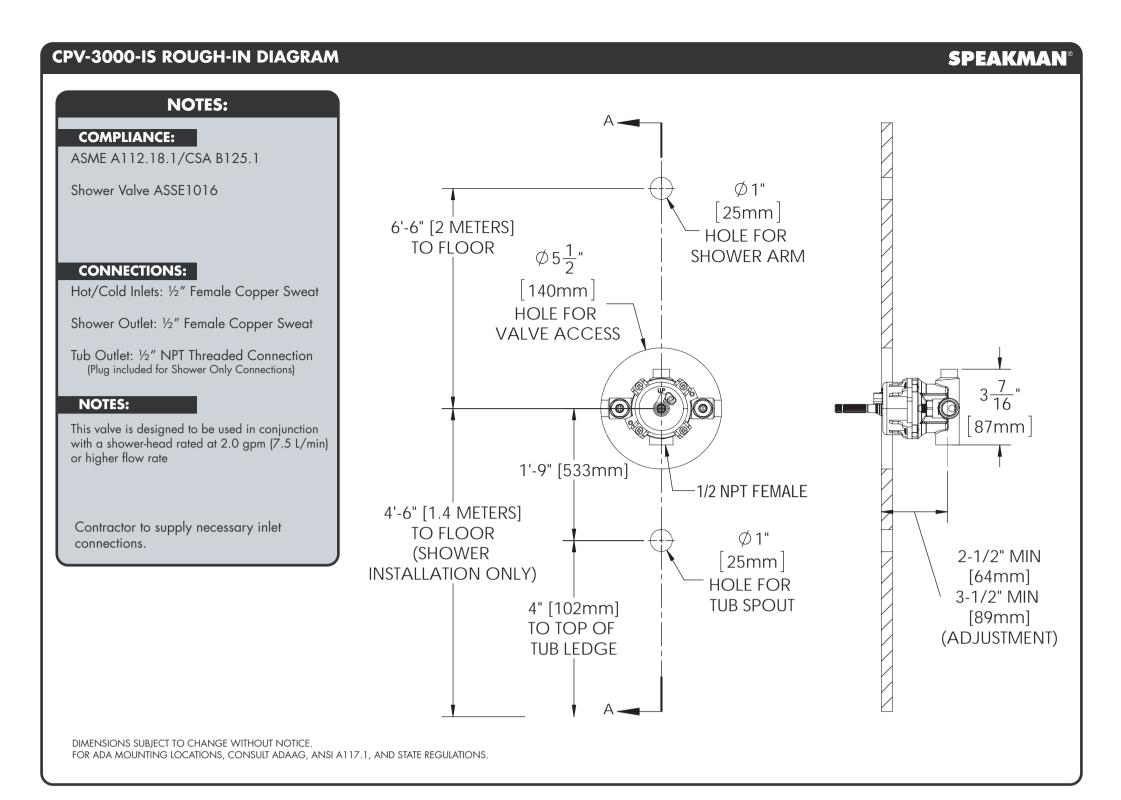


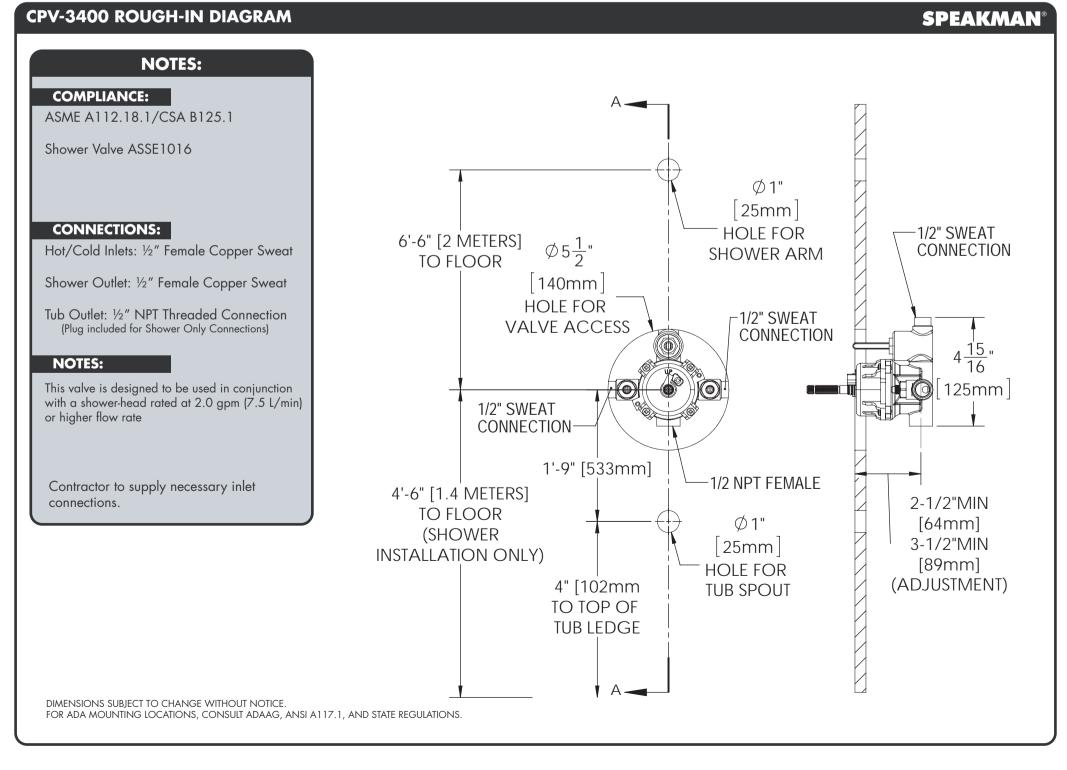


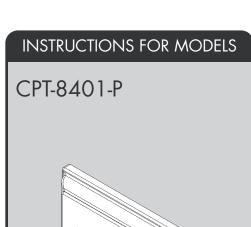
## **CPV-P-IS ROUGH-IN DIAGRAM SPEAKMAN® NOTES:** COMPLIANCE: ASME A112.18.1/CSA B125.1 Shower Valve ASSE1016 $\emptyset$ 1" [25mm] 6'-6" [2 METERS] HOLE FOR TO FLOOR $\emptyset$ 5 $\frac{1}{2}$ " **SHOWER ARM CONNECTIONS:** Hot/Cold Inlets: 1/2" Female Copper Sweat [140mm] Shower Outlet: ½" Female Copper Sweat **HOLE FOR VALVE ACCESS** Tub Outlet: ½" NPT Threaded Connection (Plug included for Shower Only Connections) **NOTES:** This valve is designed to be used in conjunction with a shower-head rated at 2.0 gpm (7.5 L/min) [8/mm] or higher flow rate 1'-9" [533mm] -1/2 NPT FEMALE 4'-6" [1.4 METERS] Contractor to supply necessary inlet connections. TO FLOOR Ø1" (SHOWER 2-1/2" MIN 25mm **INSTALLATION ONLY)** [64mm] HOLE FOR 3-1/2" MIN **TUB SPOUT** 4" [102mm] [89mm] TO TOP OF (ADJUSTMENT) TUB LEDGE DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE. FOR ADA MOUNTING LOCATIONS, CONSULT ADAAG, ANSI A117.1, AND STATE REGULATIONS.







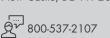




## NEED HELP?

For additional assistance or service please contact:

**SPEAKMAN**® Company 400 Anchor Mill Road New Castle, DE 19720



customerservice@speakman.com



92-CPT-8401-P-01





- Do not over-tighten any connections or damage may occur.
- Be sure to read instructions thoroughly before beginning installation.
- Be sure to have properly adjusted the Temperature Limiting Stop (TLS) as per the Valve Installation Instructions before installing Valve Trim.

# SAFETY TIPS

0

Cover your drain to prevent loss of parts.

# MAINTENANCE

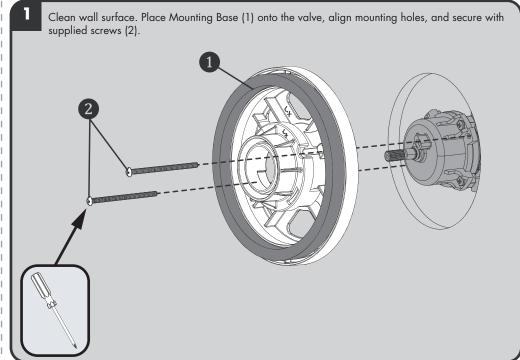
**O** 

Your new Speakman Product is designed for years of trouble-free performance. Keep it looking new by cleaning it periodically with a soft cloth. The use of harsh chemicals and abrasives on any of the Speakman custom finish products may damage the finish and void the product warranty. Please be sure to only use approved cleaners. Please contact Speakman for any clarification of acceptable cleaners.

# WARRANTY

•

Additional warranty information can be found at: www.speakman.com



There are two connectors included to allow for both Shallow Mount (Valve Centerline is 2.5"-3.0" from finished wall surface) and Deep Mount (Valve Centerline is 3.0".3.5" from finished wall surface) applications. Please select Connector appropriate for your installation.

For Shallow Mount Application

For Deep Mount Application

