

# Installation Guide

## Single-Control Bath and Shower Trim

K-T16113, K-T16114, K-T16115,  
K-T16116, K-T16117, K-T16139,  
K-16213, K-16214, K-16217

**M** product numbers are for Mexico (i.e. K-12345**M**)  
Los números de productos seguidos de  
**M** corresponden a México (Ej.  
K-12345**M**)  
Français, page “Français-1”  
Español, página “Español-1”

1025255-2-A

THE BOLD LOOK  
OF **KOHLER**®

# IMPORTANT INSTRUCTIONS

## READ AND SAVE FOR THE CONSUMER



**WARNING: Risk of scalding or other severe injury.**

- Before completing installation, the installer must set the maximum water temperature setting of this valve to minimize the risks associated with scalding hazards according to ASTM F 444.
- Do not install a shut-off device on either outlet of this valve. The installation of any such device may create a cross-flow condition at the valve and affect the water temperature.
- Factors that change the temperature of the water supplied to the valve, such as seasonal water temperature changes, and water heater replacement or servicing, will change the maximum water temperature supplied by the valve and may create a scalding hazard. The pressure-balanced valve **will not** compensate for changes in the water supply temperature; adjust the maximum water temperature setting of this pressure-balanced valve when such changes occur.
- Pressure-balanced valves may not provide protection against scalding if there is a failure of other temperature-limiting devices elsewhere in the plumbing system.

**The installer is responsible for installing the valve and adjusting the maximum water temperature of this pressure-balanced valve according to instructions.**

**This valve meets or exceeds ANSI A112.18.1 and ASSE 1016.**

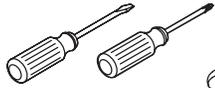
If you do not understand any of the installation or temperature adjustment instructions in this document, in the United States please contact our Customer Service Department at **1-800-4-KOHLER**. Outside the U.S., please contact your distributor.

**IMPORTANT NOTICE TO INSTALLERS!** Please fill in the blanks in the information box in the Homeowners Guide and on the valve label. Retain the Homeowners Guide for future reference.

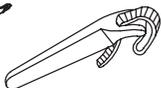
**NOTICE TO HOMEOWNERS! This device has been preset by \_\_\_\_\_ of \_\_\_\_\_ to ensure a safe maximum temperature. Any change in the setting may raise the discharge temperature above the limit considered safe, and lead to scalds.**

Date: \_\_\_\_\_

## Tools and Materials



Assorted  
Screwdrivers



Strap  
Wrench



Plumbers  
Putty



Thread  
Sealant



Hex  
Wrench

## Thank You For Choosing Kohler Company

We appreciate your commitment to Kohler quality. Please take a few minutes to review this manual before you start installation. If you encounter any installation or performance problems, please don't hesitate to contact us. Our phone numbers and web site are listed on the back cover. Thanks again for choosing Kohler Company.

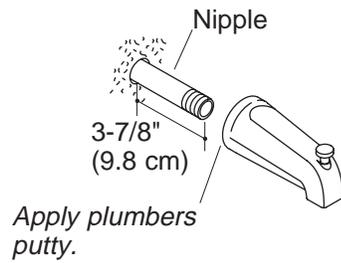
## Before You Begin



**CAUTION: Risk of product damage to the K-306-KS valve assembly.** When using this valve in a fiberglass or acrylic installation, use the Thin Wall Installation Kit (88526).

- Observe all local plumbing codes.
- The finished wall or bath/shower unit must be installed prior to installing this trim.
- We recommend that you determine if the maximum water temperature is acceptable before installing this trim. If temperature adjustment is needed, refer to the "Water Temperature Adjustment" section.
- The valve shuts off by water pressure. Do not force the handle in any direction. To turn the valve off, gently turn it to the "Off" position.
- Shut off the main water supply.

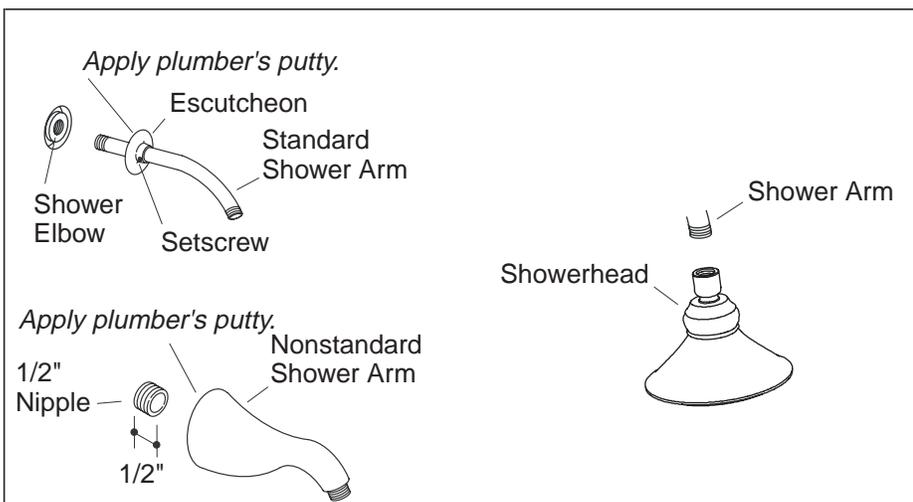
## Threaded Spouts



### 1. Install the Spout

**⚠ CAUTION: Risk of internal seal damage.** Do not use petroleum-based lubricants when installing slip-fit spouts. If the spout will not slide over the tubing, use soapy water or a silicone-based lubricant.

- Remove the temporary nipple.
- Apply thread sealant and install a 1/2" nipple so it extends 7/16" (1.1 cm) beyond the finished wall.
- Apply a bead of plumbers putty or other sealant around the inlet end of the spout according to the putty manufacturer's instructions.
- Apply thread sealant to the nipple and thread the spout onto the nipple.
- Carefully tighten with a clean strap wrench.
- Remove all excess putty.



## 2. Install the Showerhead

**CAUTION: Risk of product damage.** To avoid plugging the showerhead spray outlets, use thread sealant tape on the shower arm threads. Do not use thread sealant compound (pipe dope).

**NOTE:** A standard showerhead is shown.

### Installing the Standard Showerhead

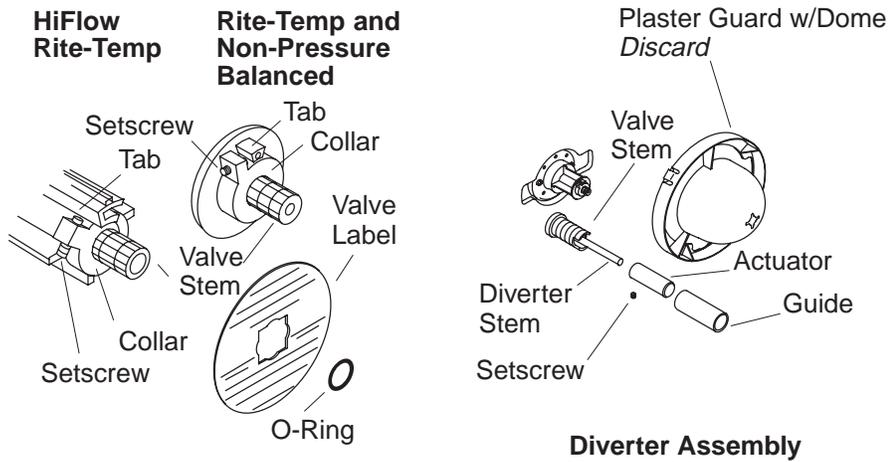
- Remove the temporary nipple from the shower elbow.
- Apply plumbers putty or other sealant to the back of the escutcheon according to the putty manufacturer's instructions.
- Slide the escutcheon over the shower arm.
- Apply thread sealant tape to the shower arm, and install the shower arm to the shower elbow.
- Carefully tighten with a clean strap wrench.
- Press the escutcheon against the finished wall and secure with the setscrew.
- Remove all excess putty.
- With the showerhead off, flush out the system.
- Apply thread sealant tape to the shower arm and thread the showerhead to the shower arm.

### Installing the Nonstandard Showerhead

- Remove the temporary nipple from the shower elbow.

### **Install the Showerhead (cont.)**

- Apply a ring of plumbers putty or other sealant to the back of the shower arm according to the putty manufacturer's instructions.
- Apply thread sealant and install a 1/2" NPT nipple to the shower elbow to extend 1/2" (1.3 cm) beyond the finished wall.
- Apply thread sealant tape to the nipple and install the shower arm onto the nipple.
- Carefully tighten with a clean strap wrench.
- Remove all excess putty.
- With the showerhead off, flush out the system.
- Apply thread sealant tape to the shower arm, and thread the showerhead to the shower arm.



### 3. Water Temperature Adjustment

**CAUTION: Risk of personal injury.** The water temperature should never be set above 120° F (49° C).

- Turn the valve clockwise to the full open position and let the hot water run for several minutes. Position a thermometer in the water stream and check the temperature.
- For **minor water temperature changes**, adjust the setscrew, and recheck the water temperature.
- For **major water temperature changes**, remove the O-ring and collar from the valve stem. Slowly rotate the valve stem until the desired water temperature is reached.
- Reinstall the collar on the valve stem with the setscrew against the side of the tab.
- Reinstall the O-ring, rotate the valve stem counterclockwise to shut the water off, and recheck the water temperature.

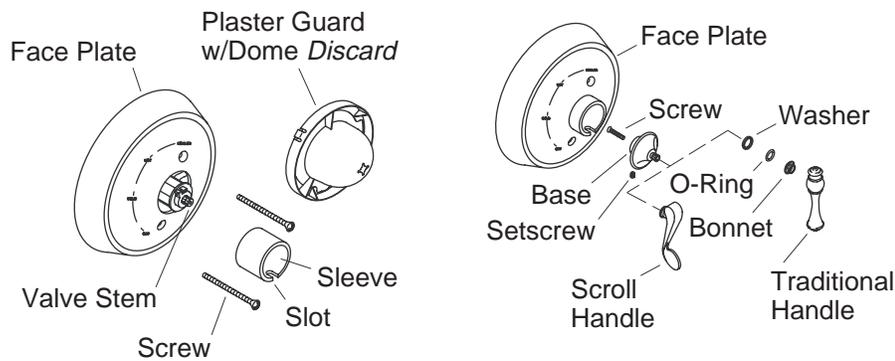
**NOTE:** After adjustment, complete the required information on the valve label.

### 4. Diverter Assembly

- Remove and discard the plaster guard and/or dome, if installed.
- Position the actuator over the diverter stem and tighten the setscrew.

### **Diverter Assembly (cont.)**

- Slide the guide over the actuator and thread onto the diverter stem.



## 5. Install the Face Plate and Handle

**CAUTION:** Risk of product damage to the K-306-KS valve assembly. When using this valve in a fiberglass or acrylic installation, use the Thin Wall Installation Kit (88526).

- Remove and discard the plaster guard and/or dome, if installed
- Install the face plate onto the valve. Secure with two screws.
- Rotate the valve stem fully counterclockwise.
- Fit the sleeve onto the valve.
- Slide the sleeve over the valve stem with the slot down and facing outward.

### Scroll Handle

- Install the handle to the base.
- Secure with a screw.
- Align the handle assembly and press it onto the valve stem.
- Secure the handle in place with the setscrew.

### Traditional Handle

- Assemble the handle and bonnet.
- Install the washer and O-ring onto the base.
- Fit the handle assembly to the base.
- Secure with a screw.

### **Install the Face Plate and Handle (cont.)**

- Align the handle and the base assembly. Press the handle onto the valve stem.
- Secure the handle in place with the setscrew.

### **6. Complete the Installation**

- Turn the valve fully counterclockwise to the off position.
- Remove the aerator assembly from the spout by turning it counterclockwise.
- Turn on the main water supply.
- Turn the valve to the center and run water for approximately one minute to flush the system.
- Check all connections for leaks.
- Reinstall the aerator.

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**USA: 1-800-4-KOHLER**  
**Canada: 1-800-964-5590**  
**México: 001-877-680-1310**

**[kohler.com](http://kohler.com)**

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