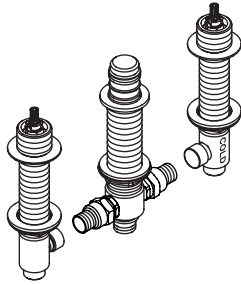


Installation Guide

Hi-Flow Valve System with Diverter

K-438

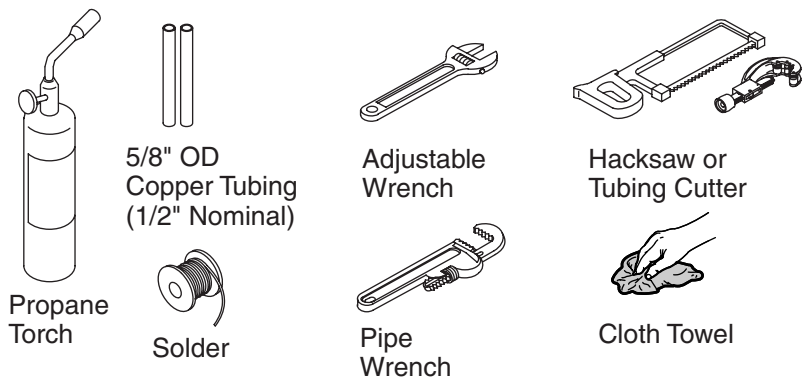


M product numbers are for Mexico (i.e. K-12345**M**)
Los números de productos seguidos de
M corresponden a México (Ej.
K-12345**M**)
Français, page "Français-1"
Español, página "Español-1"

THE BOLD LOOK
OF **KOHLER**®

1054252-2-C

Tools and Materials



Before You Begin

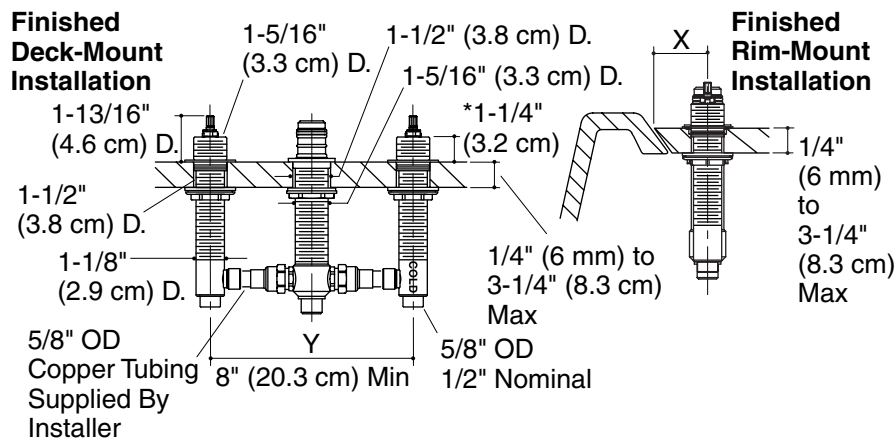
NOTICE: Leave the cap on the diverter until the spout from the bath faucet trim is ready to be installed. The diverter is an O-ring sealing surface which may be damaged when unprotected.

NOTE: This product is for finished deck-mount or finished rim-mount installations only.

NOTE: Instructions are given for installations with 8" (20.3 cm) centers. For wider installations, adjust all roughing-in dimensions and copper tube lengths accordingly.

NOTE: The installation of water hammer arrestors are not required, but are recommended. Installing water hammer arrestors may reduce or eliminate the possibility of water hammer when the user turns the handles to the ON or OFF position.

- Observe all local plumbing and building codes.
- Shut off the water supply.
- Protect the surface of the deck/rim during the installation.
- Products purchased separately may change valve placement and alignment.
- Provide an access panel to the valves for servicing.
- Kohler Co. reserves the right to make revisions in the design of faucets without notice, as specified in the Price Book.



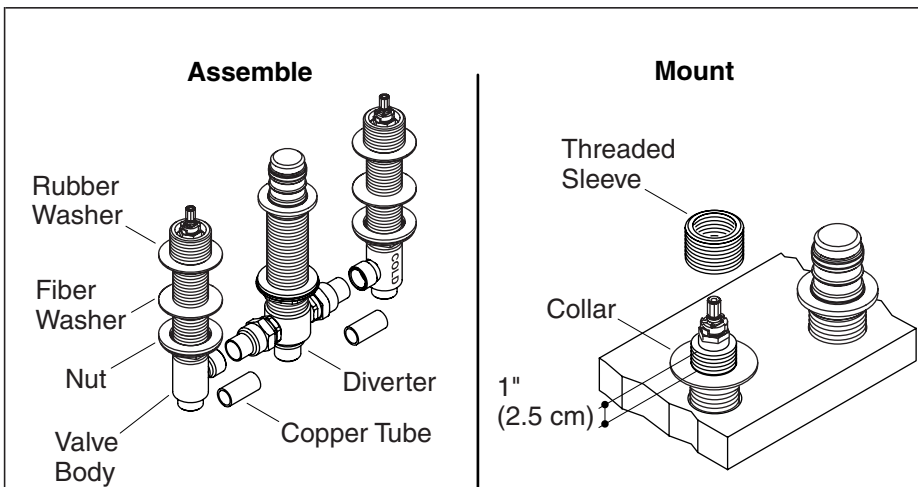
*Dimension allows +/-1/4" (6 mm) handle adjustment during handle trim installation.
X = Distance from centerline of spout inlet to front of spout base plus 1/2" (1.3 cm).
Y = Distance between valve body centerlines varies. Minimum distance is 8" (20.3 cm).

1. Prepare the Site

- Install or relocate the water supplies as needed.
- If the deck/rim thickness is less than 1/4" (1.3 cm), install 1/2" exterior grade plywood to the underside of the deck/rim.

NOTE: Before drilling the mounting holes for the spout and valve body on the deck/rim, ensure that the mounting holes will not be oversized. The diverter and valve bodies require adequate base material strength and maximum contact area with the deck/rim.

- When drilling mounting holes on the deck/rim, the maximum diameter of the holes for the diverter and valve bodies should be 1-1/2" (3.8 cm).
- For 8" (20.3 cm) centers:** Cut two 1-1/16" (2.7 cm) pieces of copper tubing.
- For wider installations:** Cut the two pieces of copper tubing to fit the actual installation.



2. Install the Valve System

IMPORTANT! Do not solder the connections during this step.

Assemble

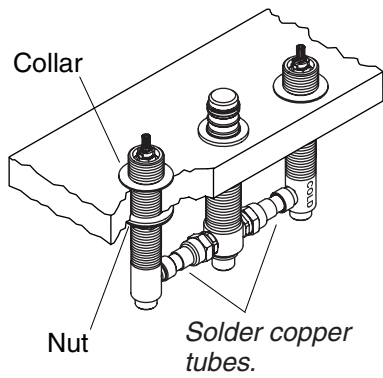
- With the flange side facing up, thread a nut onto each valve body.
- Slide a fiber washer onto each valve body.

NOTE: For rim/deck thicknesses less than 1/4" (6 mm), two rubber washers are required. For rim/deck thicknesses greater than 1/4" (6 mm), one rubber washer is required.

- Depending on the thickness of the rim or deck, slide one or two rubber washers onto each valve body.
- Insert the copper tubes between the valve bodies and diverter.

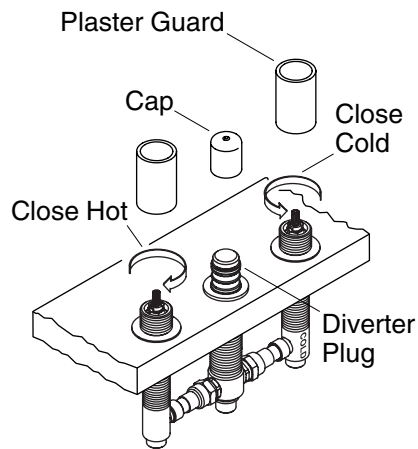
Mount

- With the valve body marked "COLD" on the right, insert the valve system through the mounting holes from the underside of the deck/rim.
- With the flange side facing up, place a collar on each valve body.
- Thread each collar down at least 1" (2.5 cm) from the top thread.
- Install a threaded sleeve on each valve body until the sleeve bottoms on the valve body.
- Back up the collar until it contacts the threaded sleeve.



3. Connect the Supplies

- Tighten the nuts on each valve body from underneath the deck/rim.
- Solder the copper tubes to the valve bodies and diverter.
- Solder the spout supply tube (not shown) to the diverter.
- If desired, install water hammer arrestors (not supplied) in the hot and cold water tubes near the valve bodies (not shown).
- Solder the hot and cold water tubes to the valve body inlets (not shown). Make sure that the cold supply is on the right side.



4. Installation Checkout

- Ensure that the valves are in the closed position. Turn the cold valve fully counterclockwise. Turn the hot valve fully clockwise.
- Turn on the main water supply.
- Check the complete installation for leaks with the valves closed and open. Repair leaks as needed.
- Close both valves and turn off the main water supply.



WARNING: Risk of personal injury. To prevent water spray, wrap a cloth towel around the diverter before loosening the diverter plug. Water will purge from the diverter when you remove the diverter plug.

- Wrap a cloth towel around the diverter, then carefully loosen the diverter plug to remove pressure.
- Retighten the diverter plug to the diverter.
- Install a plaster guard (provided) over each valves and install the cap (provided) over the diverter.

NOTE: Remove the cap from the diverter just before the spout from the bath faucet trim will be installed.

- Begin the bath faucet trim installation. Refer to the bath faucet trim manufacturer's instructions.