J ust Right®

APPLICATIONS

• For use in residential and light commercial hot water line above the water heater
• For new construction
• For Retrofit

MATERIALS & CONSTRUCTION

• Made with FlowGuard Gold® CPVC
• 3/4" CTS main line
• 100 PSI @ 140°F

DESIGN CRITERIA

• NSF pw ASTM F1970
• IAPMO listed to PS116

PRODUCT BENEFITS

• Convenience of hot water quickly
• Water conservation
• Ease of installation
• Competitive price
• No additional gas or electricity required to run
• Maintenance free
• Comes with brass compression fittings for easy installation
• Five year limited warranty

Made With

FlowGuard Gold®

FlowGuard Gold® is a registered trademark of Noveon IP Holdings Corp.

Figure No.

4750

DISCONTINUED PRODUCT
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### 5/8” X 1/2” COMPRESSION FITTING Dimensions
(1/2” x 3/8” CTS)

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### 7/8” X 7/8” COMPRESSION FITTING Dimensions
(3/4” x 3/4” CTS)

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Helpful Hints

■ The main hot-water service line to the building must be located above the water heater.
■ Maximum one unit per main cold water inlet to building.
■ The device works best in a single plumbing loop.
■ Maximum two loop system can be used if return lines are tied together just before return line stub out. Valves for balancing are needed in the return lines.
■ No restriction to the direction in which the Just Right® can be installed. Follow the flow arrows.
■ The return line is normally laid adjacent to the hot and cold water lines. Unless there is a shorter way back to the Just Right® unit, follow their routes.
■ The entire hot-water loop, including the return line, must be completely purged of air for the Just Right® unit to work properly.
■ Just Right® has a built-in check valve. This prevents cold water flow into the hot water line.
■ The Just Right® unit will break the electrical continuity of a copper plumbing system. If you are grounding to such a system, you should refer to local codes.

Just Right® recirculation device includes a rolling plastic ball that seats in position as differential pressure occurs when faucets are turned on/off or as mixing of hot and cold water is demanded. Associated with these natural occurrences in some installations, is a hydraulic noise, typically heard as a thumping sound that accompanies the seating of the ball.

Where can I install Just Right®?

Just Right® is intended for use in residential and some light commercial applications, including both new and existing structures.
How do I begin?

**STEP NO. 1:** Make certain, for both new and retrofit work, that your main hot water line is positioned above your water heater.

This condition will usually be found in buildings with basements or crawl spaces. The water heater is typically located in these areas, with the hot-water line running above it. *Just Right* will also work in buildings with slab construction, but only if the hot water line is positioned above the water heater— not in the slab.

**STEP NO. 2:** Make certain, if you are retrofitting, that you can run a return line between the faucet farthest from the water heater and the *Just Right* devices. If you are not sure, call NIBCO at 1-888-350-0833.

**STEP NO. 3:** Make certain to read all the installation instructions on the following pages. Installation by a licensed plumber is recommended.

What parts and supplies do I need?

The *Just Right* package includes all three compression fittings you need to connect the device to the recirculation loop.

- One 3/8” x 3/8” fitting: The 3/8” side of the fitting connects to the 3/8” stub-out on the device; the 3/4” side connects to the 3/4” hard-copper return line from the farthest hot-water faucet in the loop.

**NOTE:** On retrofit projects, where permitted by local plumbing codes*, it may be easier to create the return line using 3/8” soft copper tubing. In that case, substitute a 1/2” x 5/8” compression fitting for the 1/2” x 5/8” compression fitting provided.

- Two 3/8” x 3/8” compression fittings for connecting the stub-outs on either side of the *Just Right* device to the 3/8” copper or CPVC water-supply line.

- The plumbing code in Massachusetts, for example, requires hard copper tubing.

Installing the *Just Right* Device

**STEP NO. 1:** Turn off the water supply at the main shutoff valve. Then turn on a faucet to drain the plumbing system of all water.

**STEP NO. 2:** Locate the point of installation by finding the main, cold-water offshoot from the cold-water pipe that contains the main shutoff valve and supplies the water heater.

- If this offshoot is situated before the water heater, locate the point of installation 18” to 24” upstream from the offshoot; that is, back toward the main shutoff valve.

**STEP NO. 3:** Install the *Just Right* unit into the cold-water pipe. If you are retrofitting, you must make two cuts into the cold-water pipe:

- The first cut should be positioned right at the point of installation.
- The second cut should be positioned 9 3/4” upstream that is, toward the main shutoff valve.

- Make these two cuts and discard the 9 3/4” section of tubing. Fit a garden hose over the upstream segment, with the hose’s opposite end leading to a floor drain. Then open the main shutoff valve to clear the line of any excess solder, flux or debris.

Finally, use the two 7/8” x 7/8” compression fittings to connect the two, larger stub-outs on either side of the device to the water line.

Installing the Return Line

For the *Just Right* device to work properly, you must connect it to the hot-water faucet that is farthest and at the highest most accessible point from the water heater. NIBCO recommends that you use 1/2” hard-copper tubing or 3/8” soft copper tubing, where permitted by local plumbing codes*, for this return line. However, if the plumbing system is made of CPVC, this material is also acceptable for the return line.

**NOTE:** Making this tee connection off the riser to the farthest hot-water faucet should be no problem on a new-construction project. Every retrofit situation, however, is different. The layout of the plumbing system may prevent you from making a connection without substantial alterations. If that is the case, locate the tee in the main hot-water line as close to the farthest hot-water faucet as is possible.

*If no reduction in riser...*

**STEP NO. 1:** Locate the farthest hot-water faucet and close its shutoff valve.

**STEP NO. 2:** Install a tee in the hot-water riser between that hot-water tap and its shutoff valve. Go to Step No. 3.

*If reduction in riser...*

**STEP NO. 1:** Locate the farthest hot-water faucet.

**STEP NO. 2:** Install the tee in the hot-water riser as high as possible before the shut-off valve. Or in the riser just before the subfloor.

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*The plumbing code in Massachusetts, for example, requires hard copper tubing.*