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### 3 way shower diverter valve black

This objective thermostatic valve that buys guide will show you how to buy the best scald-free or pressure balance valve for safe and comfortable showers. Plumber installs a shower valve in new build. With this special valve you can choose between thermostatic and pressure balancing cartridges and various finishing strips. A close-up of the valve appears at the bottom of this article. Here's the typical scenario: Just as you're enjoying a nice hot shower, an explosion of icy cold water runs trembles down your spine. Or, worse, someone flushes a toilet and shower water sizzles your skin. Startling thermal shocks from cold or hot water can trigger severe falls, especially in elderly or physically challenged people. And because children have thinner skin than adults, they are especially vulnerable to scalding burns from hot water. For a single scald prevention measure, lower the water heater thermostat to 120 degrees F. To check the temperature of hot water, put a meat thermometer in a glass and run hot water into it for two minutes. The way to eliminate these temperature changes is to install a pressure balance anti-bowl valve or thermostatic shower valve in the shower wall where the shower controls are located (see How a shower works). This also applies to bathtubs. Thermostat anti-bowl shower valve makes a shower safer and more comfortable. Buy on Amazon. A thermostatic shower valve can only control the shower or bath spout or, if there is a redirection valve, both bathtub and shower. These maintain water temperature at a safe level, despite fluctuations in water supply lines. The problem that causes temperature fluctuations is fundamental. When a toilet is flushed, cold water flows into the tank to fill it up, causing the water pressure in the cold water pipes to dip. If this happens when showering, the less cold water reaches the shower valve, changing the comfortable hot/cold mixture to hot. If someone turns on a hot water tap elsewhere in the house, the opposite can happen - the hot water falls and you get a shot of cold. This problem is exacerbated in plumbing that is clogged with mineral deposits, in relatively small (1/2-inch or smaller) supply pipes, and in showers with low-flow shower heads. A redirect valve directs the water either to the shower head or to the bath outside. Pressure balance Shower valves A pressure balance antiskald valve is designed to compensate for changes in water pressure. Although it looks like another shower or bath valve from the outside, it has a special membrane or piston mechanism inside that moves with a change in water pressure to immediately balance the pressure of hot and cold water inputs. With pressure balance shower valve, the membrane changes with water pressure to maintain a balance between hot and cold water. These valves keep the water temperature constant, within plus or minus 2 to 3 degrees F., by flow through either the hot or cold supply. Most reduce the water flow to a drip if the cold water supply fails. Flow can be a problem with pressure-balance valves, especially in homes where the shower includes a personal hand shower and/or a multi-head shower system. Most pressure balance valves are either full-on or full-off. Thermostatic shower valves Where flow and volume control are important, a better choice is a thermostatic shower valve. Most of these have 3/4-inch cores that can blast a flood of water through multiple shower heads and will maintain the water temperature within 1 or 2 degrees F. of the set temperature. The thermostatic shower valve is built into the redirect valve with this modern model. Buy on Amazon. Choose a thermostat over pressure balance valve for maximum flow and volume control, says Rick Brandley of George's Pipe & Supply in Pasadena, California. A thermostatic valve allows you to maintain a set temperature when turning the valve on and off if you like to soap up and rinse. Of course, you pay for the difference. While a pressure-balanced valve will typically cost from \$80 to \$250, a thermostatic valve with a volume control (a separate function with most), can run \$400 or more depending on functions and trim. Requirements for shower valve The popularity of valves with scald protection is driven by codes that require these products in new builds. In addition, all major plumbing certification and code organizations have adopted anti-scalded requirements requiring plumbing fixtures to have a built-in way to control the maximum water temperature delivered through bathtub spouts and shower heads. Can you replace an existing valve with a scald-free model? You can, but the difficulty depends on the existing valve. A plumber can usually replace a single handle, conventional valve with a pressure balanced valve after removing the handle trim (if there is no access from behind the wall). Replacing a layout with two handles is a little more involved and may require you to remove tiles or cut into the wall. Several valve manufacturers are selling remodeling plates to cover up the carving area. This close-up shows the construction of a shower valve that is designed to receive different types of cartridges and trims. Buy on Amazon. Delta's MultiChoice Universal Valve can receive various types of trims and internal works. During installation, a plumber can choose between a couple of different types of thermostat or pressure balance cartridges that fit into the valve. Then, after installation, some of several trims can be selected, depending on the style and complete the homeowner prefers. Selected resource: Get a pre-screened local plumbing ProCall for free estimates from local pros now: 1-866-342-3263 Thermostatic Shower Valve Buying Guide was last modified: November 8, by Don Vandervort, HomeTips © 1997 to 2020 To repair a leaky shower redirection valve, it is necessary to replace the part. Replacing the valve is not an expensive or difficult project, and it is not necessary to turn off the main water supply. The first thing to do is to find out what type of attachment the spout has. If there is a small hole or screw under the spout, cover the drain, then use an allen key, sometimes known as an allen key, to remove the screw. The drain cover catches the screw before falling into the drain. Turn the spout while pulling it straight out of the supply pipe. If there is no set screw, it means that there is a fastener between the supply pipe and the spout. Take a pipe wrench, grab the spout, and turn it counterclockwise until the spout is removed. Take the spout to the hardware store and get a new spout that attaches in the same way. Be careful when choosing a new threaded spout because some connect near the socket, but others connect near the base. The new spout must have the same connection as the old one. To install the new spout, just reverse the steps it took to remove the old spout. Spout.

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