

122-ABNF Thermostatic Tempering Valve

Size: 1/2" NPT

**CHICAGO
FAUCETS**
Geberit Group

Description

122-ABNF Thermostatic Mixing Valves maintain and limit mixed hot water to a desired, selectable temperature. The 122-ABNF can be set to any temperature between 80°F and 120°F with flow rates as low as 0.5 gpm. This mixing valve is listed under ASSE 1069 for single-pipe, tempered water applications and ASSE 1070 for valves used in individual or multiple fixture applications. The 122-ABNF uses a double throttling design to control both the hot and cold water supply to the mixed outlet. The superior flow characteristics of this valve provide accurate temperature control ($\pm 3^\circ\text{F}$) with low pressure drop across the rated flow range. As an added feature, the 122-ABNF incorporates integral inlet filter washers and check valves in both the hot and cold water inlets to protect against cross flow.

Temperature Adjustment

1. Let the water flow for at least two minutes to allow supply temperature to stabilize.
2. Calibrate the mixed water outlet temperature by placing a thermometer in the mixed water stream.
3. To adjust the setting of the valve, loosen locking cap screw with hex wrench, see Figure 1.
Cap must be lifted 1/4" to adjust temperature. To increase the temperature, turn counterclockwise.
To decrease temperature turn clockwise.
4. Lower handle and tighten screw.
5. Check outlet temperature.

Applications

122-ABNF Thermostatic Mixing Valves are ideal for supplying sinks, baths, showers or lavatories with tempered water. The 122-ABNF valve can be used in residential, commercial and institutional environments. These thermostatically modulated mixing valves can be used anywhere preset water temperature is required for point-of-use installations such as in homes, schools, restaurants, hospitals, beauty salons, and public restrooms. The 122-ABNF is provided with an adjustment cap that includes a locking feature. The 122-ABNF valve should be used prior to the fixture to reduce the hot water supply to a safe temperature.

Pressure — Temperature — Flow Rate

Minimum supply pressure static: 30psi (207kPa)

Inlet Temperatures: hot inlet, 120°F-180°F (49°C-82°C) cold inlet, 39°F-85°F (4°C-29°C)

Hot Water Inlet to Outlet Differential Temperature: 5°F (3°C)

Temperature Out: field range: 80°F-120°F (27°C-49°C), adjustable; accurate with $\pm 3^\circ\text{F}$ (1.7°C)

Maximum Temperature: 200°F (93°C)

Maximum Pressure: 150psi (10.3 bar)

Minimum Flow: 0.5 gpm (1.9 lpm) @ .08psi (0.55 kPa)†

Maximum Flow: 20 gpm (76 lpm) @ 125psi (862 kPa)†

Caution: Period Inspection/Maintenance

This valve requires periodic inspection and verification of the outlet temperature by a licensed contractor. Corrosive water conditions, hot inlet water temperature over 200°F (93°C), unauthorized adjustments or repairs could render the valve ineffective for its intended service. Regular cleaning and checking of thermostat assembly helps to maximize valve life and Tempering function. Frequency of cleaning depends on local water conditions. NOTE: It is recommended that shutoff valve(s) be installed on the inlet(s) to facilitate service of the 122-ABNF valve.



122-ABNF

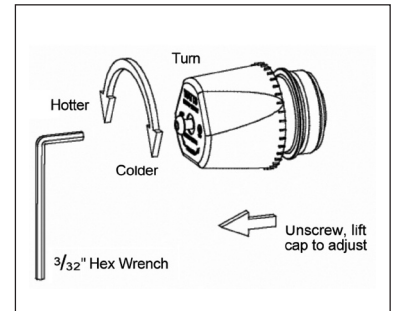


Figure 1
Temperature Adjustment

Certified per ASSE 1017, ASSE 1069, and ASSE 1070
Certified per NSF/ANSI 372, CA AB1953, and VT S.152
The 122-ABNF is manufactured by Watts Regulator as
model number 1/2 LFMMV-M1 UT



† When tested in accordance with ASSE 1017, ASSE 1069 & ASSE 1070

Typical Installations

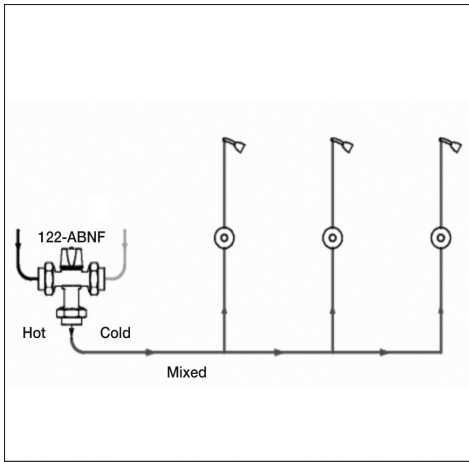


Figure 2 - ASSE 1069

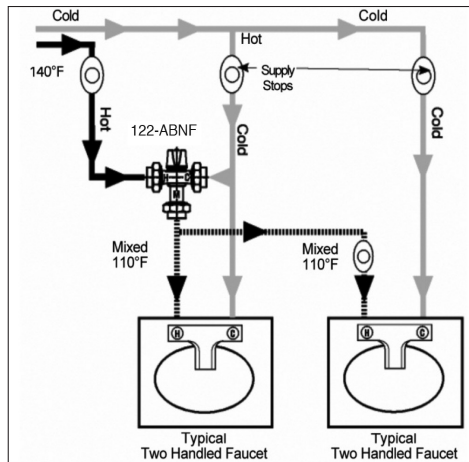


Figure 3 - ASSE 1070

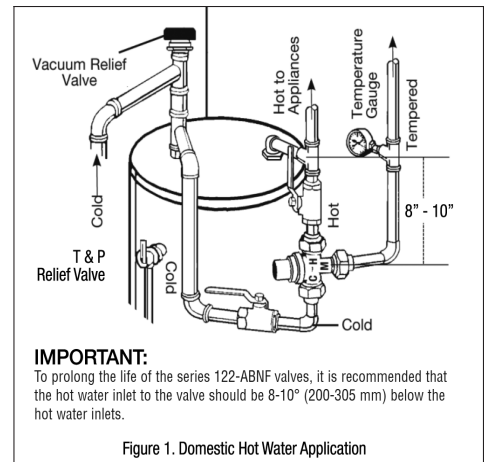


Figure 4 - ASSE 1017

Installation Instructions

Valve should be installed and adjusted by a licensed contractor in accordance with local codes and ordinances. Further, this valve should be installed in a location where it is accessible for cleaning, service or adjustment.

1. Close both the hot and cold water shutoff valves upstream nearest to the intended installation.
2. Bleed the remaining water from the system.
3. Connect the water supply to valve as shown in Figure 2, 3 or 4 depending on application. Supply piping must be flushed clean before making connections to the valve.
4. Valve can be installed in any position. Note: the inlet hot supply is to be connected to the "H" side of the valve, the cold supply side to the "C" side and the mixed water outlet to the "M" side.
5. Make sure union nuts are placed over tailpieces prior to threading to pipe. NOTE: To prevent damage to valve from excessive heat during soldering, remove unions and gaskets from valve body prior to soldering.
6. After soldering, flush piping and install valve using filter washer on hot and cold water inlet and fiber washer on the mixed water outlet.
7. Start-up: Open cold water supply, then hot water supply. Inspect for leaks.
8. Adjust temperature to desired setting (see Temperature Adjustment Section). Maximum temperature of 110°F. (43°C) is recommended.
9. When installed with non-rigid supply hose connections please insure that the 122-ABNF thermostatic valve is installed in a fixed and rigid position to prevent any unintentional movement.

IMPORTANT

Water temperatures in excess 110°F (43°C) are dangerous and may cause scalding, severe injury or death! This valve can be adjusted to deliver water at temperatures exceeding 110°F (43°C). Consequently, when used in an ASSE 1069 or ASSE 1070 application, the installer must check the mixed water outlet temperature at the point of use and adjust the Chicago Faucets Thermostatic Tempering Valve Series 122-ABNF to ensure delivery of water at a safe temperature not exceeding 110°F (43°C). Mechanical valves are not fail-safe. Due to the effects of various water conditions, periodic verification of outlet water temperature is required.

ATTENTION INSTALLER: After installation, please leave this Instruction Sheet for occupant's information. **IMPORTANT:** Inquire with governing authorities for local installation requirements.

WARNING

When used in an ASSE 1017 application at the hot water source, the Chicago Faucet Thermostatic Tempering Valve 122-ABNF cannot be used by itself to control final temperature at fixtures where ASSE Standard 1069 or ASSE Standard 1070 listed devices are required. Such use may result in severe bodily injury (i.e. scalding or chilling) and/or death. Additional ASSE Standard 1069 or ASSE Standard 1070 listed devices should be used at fixtures to prevent possible injury.

Recirculation systems should recirculate water at temperatures over 140°F to reduce the risk of bacterial growth in the piping. This valve should not be used to achieve these elevated temperatures. This valve can be used at fixtures in conjunction with recirculation systems to reduce the system's hot water to a safe temperature at the point of use.

CALIFORNIA PROPOSITION 65 WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the state of California).

For additional technical assistance, call 800/TEC-TRUE (800-832-8783) or visit our website at chicagofaucets.com.

CHICAGO FAUCETS LIMITED WARRANTY

TO WHOM DOES THIS WARRANTY APPLY? — The Company extends the following limited warranty to the original user only.

WHAT DOES THIS WARRANTY COVER AND HOW LONG DOES IT LAST?

This warranty covers the following Chicago Faucets branded Products:

LIFETIME WARRANTY — Any metal cast, forged, stamped or formed portion of the Product, not including electronic or moving parts or other products separately covered by this Limited Warranty or water restricting components or other components, is warranted against material manufacturing defects for the life of the Product.

FIVE YEAR WARRANTY — Certain Products or portions of the Product are warranted against material manufacturing defects for a period of five (5) years from the date of Product purchase. Products warranted against material manufacturing defects for a period of five (5) years from the date of Product purchase are referred to by the product series 90, 99, 150, 410, 420, 430, STB, STC, W4D, W4W, W8D, W8W, 1900, 1905, SH, 537, 548, 549, 640, 897, 2500, 8400, 9800 and E-Tronic®.

FIVE YEAR CARTRIDGE WARRANTY — The "Cartridge", defined as the metal portion of any Product typically referred to by the product numbers containing 1-099, 1-100, 217, 274, 313, 333, 335, 376, 377, 386, 408, 409, 617, 625, 628, 667, 670, 671, 672, 745, 776, 807, 824, 825, 826, 919, 937, 962, 966, 977, 1105, 2500, 3300 and 5235 excluding any rubber or plastic components, is warranted against material manufacturing defects for a period of five (5) years from the date of Product purchase.

TWO YEAR LIMITED WARRANTY — For BioArmor Products.

ONE YEAR FINISH WARRANTY — COMMERCIAL — For Products used in commercial applications, the finish of the Product is warranted against material manufacturing defects for a period of one (1) year from the date of Product purchase.

OTHER WARRANTIES — All other Products not covered above are warranted against material manufacturing defects for a period of one (1) year from the date of Product purchase.

Other restrictions and limitations apply. For complete warranty details, call Chicago Faucets Customer Service at 847-803-5000 or visit chicagofaucets.com.

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