

Installation Instructions For Emergency Fixture Thermostatic Mixing Valve

Models 132-LFABNF, 132-LFSABNF, 132-LFTABNF, 132-LFSTABNF, 132-HFABNF, 132-HFSABNF, 132-HFTABNF, 132-HFSTABNF

Applications

Chicago Faucets 132 Series Emergency Tempering Valves are certified to ASSE 1071 and are designed to deliver safe tepid water to safety systems such as eye, face and shower fixtures and combination units. They are factory set to 85°F (29.4°C) to ensure comfort when used with an eye wash, yet can be safely set up to 95°F (35°C) for maximum comfort and effectiveness when used with body washes. The 132 Series is offered in 2 models/sizes, so you can meet the needs of your application based on minimum flow performance requirements and maximum flow demands. The valves can be used to control the temperature of recirculating as well as non-recirculating supply systems.

Specifications

Maximum Operating Pressure:	125 PSI (861 kPa)
Maximum Hot Water Supply Temp:	180°F (82°C)
Outlet Temp. Range:	60°F-95°F (15°C-35°C)
Minimum Hot Water Supply:	5°F (3°C) Above Set Point
Certified Minimum Flow*:	
132-L:	0.5 GPM (1.9 LPM)
132-H:	1 GPM (3.8 LPM)

GPM (LPM) FLOW RATES @ 30 PSID*			
MODEL	TEMPERED	CW BY-PASS	CW FAILURE MAX.
132-L	9.8 (37.1)	6.5 (24.5)	0.5 (1.9)
132-H	35.1 (133)	25 (94.6)	1 (3.8)

* In accordance to ASSE 1071 as certified by IAPMO

For The Installer

Thoroughly read all installation instructions and product safety information before beginning the installation of this product.

FAILURE TO READ AND FOLLOW PROPER INSTALLATION AND MAINTENANCE INSTRUCTIONS MAY RESULT IN PRODUCT FAILURE WHICH CAN CAUSE PROPERTY DAMAGE, PERSONAL INJURY AND/OR DEATH.

Chicago Faucets is not responsible for damages resulting from improper installation and/or maintenance. Installation of this valve shall be in accordance with Uniform Plumbing Code.

TO ENSURE ACCURATE AND RELIABLE OPERATION OF THIS PRODUCT, IT IS ESSENTIAL TO:

- Properly design the system to minimize pressure and temperature variations.
- Implement an annual maintenance program to ensure proper operation and temperature setting of valve(s).
- This valve is factory preset. However, it can be adjusted. It is the responsibility of the installer and/or facility maintenance personnel to make sure valve outlet temperature does not exceed 95°F (35°C) after installation, maintenance or repair.
- Installer MUST VERIFY operation of the Cold Water By-Pass after completing installation and temperature adjustments. Simulate a hot water supply failure by closing the hot water supply ball valve or by other means available.
- In circumstances where chemical reaction is accelerated by flushing fluid temperature, a medical advisor should be consulted for the optimum temperature for each Application.
- Chicago Faucets' locking ball valves (optional or part of a kit) are the safe and acceptable method for supply shut-off to this product, unless installed in a lockable cabinet or other means to prevent unauthorized supply shut off. After initial set-up and after each ANSI and ASSE required testing of this product be CERTAIN to lock the Chicago Faucets or installer supplied ball valve open. If installing supply shut-off valves by others, you MUST follow ANSI Z358 and ASSE 1071 requirements that unauthorized supply shut off be prevented.
- Verify that no single emergency fixture supplied by this device has a minimum flow rate less than 1.5 GPM (5.7 LPM).

IMPORTANT

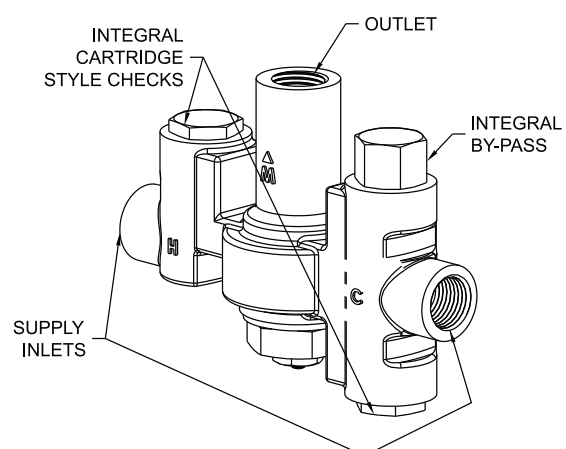
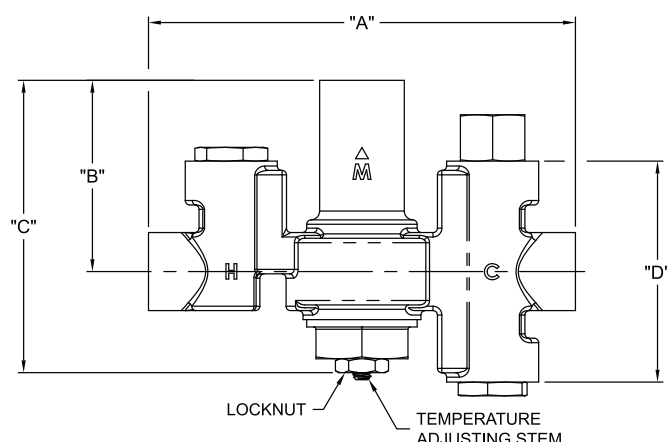
- Flush supply lines of all foreign material such as pipe dope, chips or solder prior to connecting to mixing valve.
- To ensure proper installation, review the Manual to verify rough-ins before beginning any work.
- Installation and field adjustment are the responsibility of the installer.
- Maximum water pressure is 125 PSI (8.62 bars). Maximum inlet hot water temperature is 180°F (82°C). Temperature adjustment range is 60°F-95°F (15°C-35°C). Valve assembly must be drained prior to being subjected to freezing temperatures. Valve includes integral check valves.

Tools and Supplies Required

1. Wall anchors, screws nuts and washers as required.
2. Teflon tape for sealing water connections.
3. Supply angle stops, ball valves optionally available.
4. Supply connections.
5. Wrench and an Allen wrench.

ROUGH-IN DIMENSIONS:

	Inlet	Outlet	A	B	C	D	E
132-L	1/2" NPT	1/2" NPT	5-3/4" (146)	2-5/8" (67)	4" (102)	3" (76)	2" (51)
132-H	3/4" NPT	1" NPT	8-1/2" (216)	3" (76)	5-1/2" (140)	4-1/4" (108)	3" (76)



VALVES



132-LFABNF



132-HFABNF

KITS



132-LFSABNF



132-LFTABNF



132-LFSTABNF



132-HFSABNF



132-HFTABNF



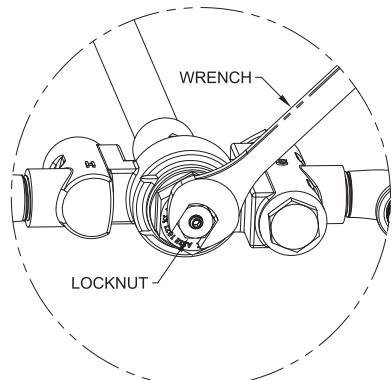
132-HFSTABNF

Installation

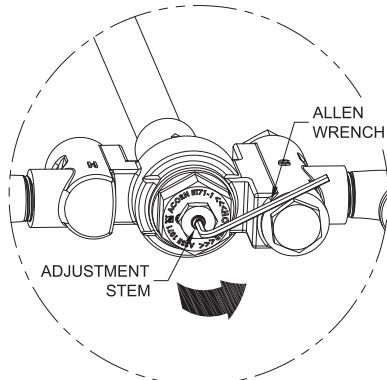
1. Locate mixing valve in a suitable place accessible for servicing and adjusting. Valve should be as close as possible to point of use.
2. Thoroughly flush supplies.
3. Connect Hot and Cold supplies to mixing valve inlets and outlet to fixture. Supply lines by others.
4. Turn on supplies and inspect for leaks. Tighten connections if leak(s) are detected.
5. Turn on fixture and allow to run until water temperature stabilizes. Measure water temperature. If water is not at desired temperature adjust as needed, (refer to adjustment section below).

Temperature Adjustment

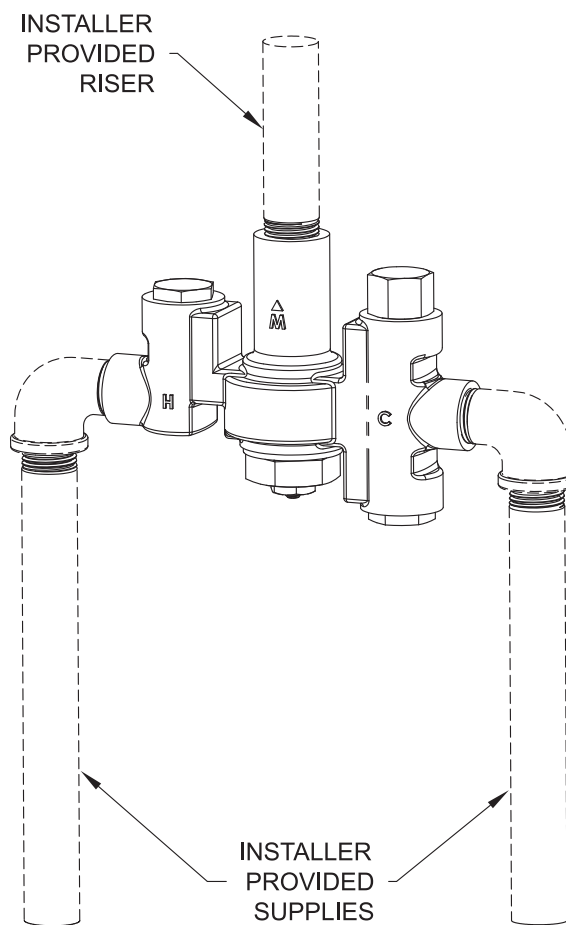
1. Loosen locknut. *Detail A*
2. Turn on fixture so temperature can stabilize.
3. Using an Allen wrench, turn adjustment stem counter-clockwise for hotter or clockwise for colder outlet temperature. *Detail B*
4. Tighten locknut to prevent any unauthorized or accidental temperature adjustment.
5. Re-check temperature.
6. In circumstances where chemical reaction is accelerated by flushing fluid temperature, a medical advisor should be consulted for the optimum temperature for each application.



Detail A



Detail B



TYPICAL INSTALLATION

Valve Specifications:

Maximum Operating Pressure: 25 PSI (861 kPa)
Maximum Hot Water Supply Temp: 180°F (82°C)

Outlet Temp. Range: 60°F-95°F (15°F-35°C)
Minimum Hot Water Supply: 5°F (3°C) Above Set Point

Flow Rate at 45 PSI (310 kPa) differential:

132-L: 12 GPM (45 LPM)
 132-H: 43 GPM (163 LPM)

Bypass Flow Rate Minimum*:

132-L: 6.5 GPM (24.5 LPM)
 132-H: 25 GPM (95 LPM)

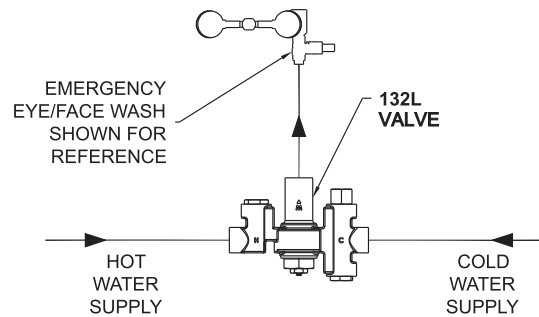
Minimum Flow*:

132-L: 1.5 GPM (5.7 LPM)
 132-H: 1 GPM (3.8 LPM)

Cold Water Failure Maximum*:

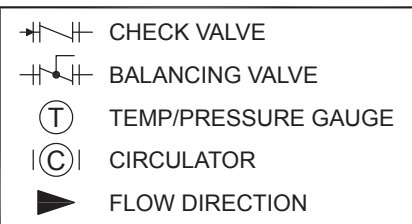
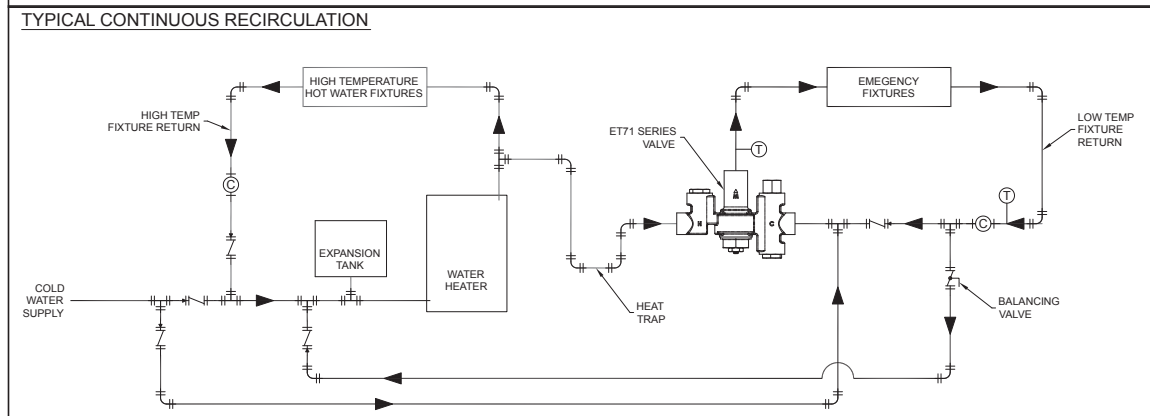
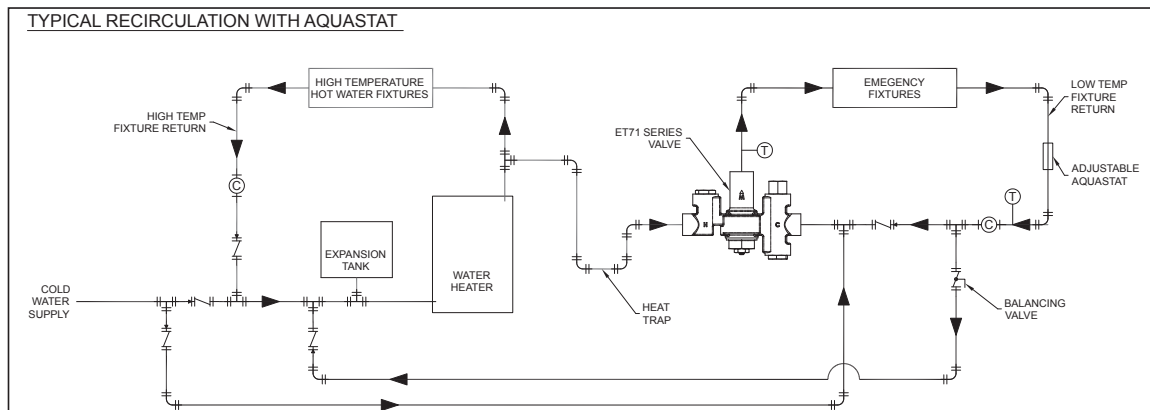
132-L: 0.5 GPM (1.9 LPM)
 132-H: 1 GPM (3.8 LPM)

*In accordance with ASSE 1071



TYPICAL PIPING DETAIL

Piping Details



Ⓢ SELECT FLOW RATE NECESSARY TO ENSURE MIXING VALVE IS OPERATING AT AN ASSE 1017 MINIMUM CERTIFIED FLOW RATE. SEE LITERATURE.

NOTE: TO BALANCE THE SYSTEM, BEGIN WITH DIVERTING 80% OF THE RETURN WATER TO COLD SIDE OF THE TEMPERING VALVE (20% TO THE HOT WATER SOURCE). CONTINUE ADJUSTING UNTIL SYSTEM IS FULLY BALANCED.

Care and Maintenance

All Chicago Faucets fittings are designed and engineered to meet or exceed industry performance standards. Care should be taken when cleaning this product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap with warm water for cleaning and protecting the surface of Chicago Faucets fittings.

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.

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.

The Chicago Faucet Company
 2100 South Clearwater Drive
 Des Plaines, IL 60018
 Phone: 847/803-5000
 Fax: 847/803-5454
 Technical: 800/832-8783
www.chicagofaucets.com