

AM-1 Series Thermostatic Mixing Valve Replacement Element

INSTALLATION INSTRUCTIONS

GENERAL

Hard water conditions may result in scale deposits causing binding of internal parts in extreme cases. Cleaning the internal parts will usually restore the valve to proper operating conditions. In some cases it may be necessary to replace the lower assembly.

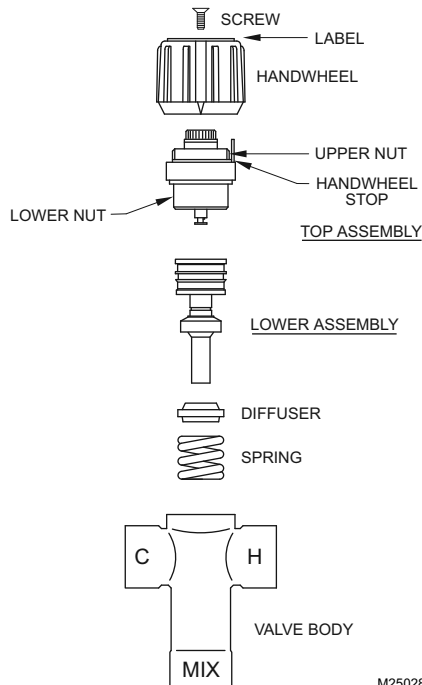


Fig. 1. Exploded View.

INSTALLATION

To clean and/or replace the lower assembly, shut off water and:

1. Pierce center circle of nameplate with a screwdriver and remove screw and hand wheel.
2. Loosen upper nut (do not remove) to allow engaging an adjustment wrench on lower nut. Unscrew lower nut (counterclockwise). This removes top assembly.
3. Brass top assembly will pop up. Remove lower assembly, diffuser and spring.
4. Carefully remove any scaling (calcium deposits) or foreign particles from valve seat and other internal parts. Use vinegar to remove calcium. Soak parts until calcium becomes soft and can be scrubbed and washed off. Do not use solvents or scratch metallic/Teflon® coated surfaces.
5. Replace cleaned spring, diffuser and lower assembly following instructions below or use new replacement kit assembly. For correct kit number, Refer to table on page 2.
 - a. Insert spring onto diffuser.
 - b. Insert diffuser with spring end first into body.
 - c. Fit valve top assembly into lower assembly and insert into valve.
 - d. Tighten lower nut. Line up arrow on Handwheel Stop with raised arrow on body and hold while tightening upper nut.
 - e. Turn plastic star wheel clockwise until it stops, then back as shown in table.
 - f. Place hand wheel on position 1 over raised arrow and insert screw. Turn hand wheel to desired temperature setting.



AM-1 SERIES THERMOSTATIC MIXING VALVE REPLACEMENT ELEMENT

Calibration of AM-1 Series Valves when testing apparatus is not available. (Field Calibration)

Model	Lower Assembly Replacement Kit	With handwheel removed, turn stem clockwise as far as possible. Then turn counterclockwise by the amount shown below and install handwheel so that #1 is in-line with red arrow on body.
60° - 100 ° F (15° - 38° C) ("B")	AM-1-020 RP	¾ turn
80° - 120° F (27° - 49° C) ("C")	AM-1-020 RP	1 turn
100° - 145° F (38° - 63° C)	AM-1-025 RP	¾ turn
80° - 180° F (27° - 82° C) ("R")	AM-1-025 RP	No Back Off Set Handwheel at # 24

Field calibration is less accurate than calibration performed on the testing apparatus.



CAUTION

It is important that the element replacement is done exactly as indicated above to prevent malfunction, temperature range inaccuracies or possible scalding. Please consult the factory if you need further assistance.

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