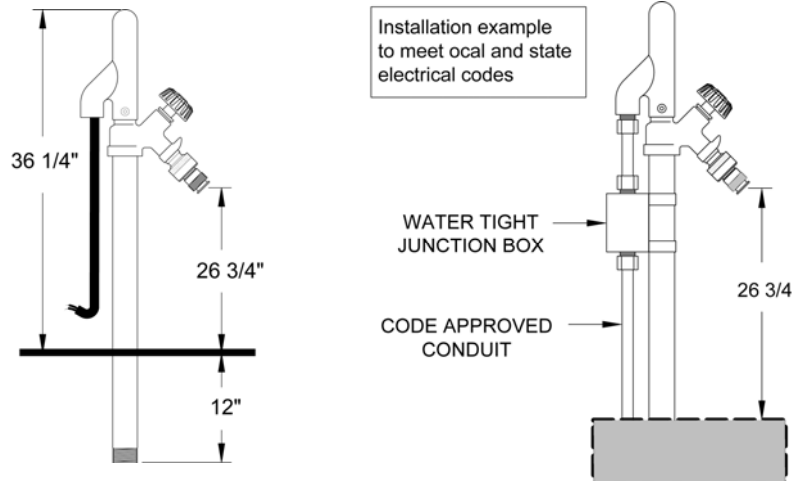


INSTALLATION, MAINTENANCE AND TROUBLESHOOTING OF THE WOODFORD MODEL H34 HYDRANT



INSTALLATION

The H34 is designed to be 26 3/4" from grade to hose connection outlet. The casing extends 12" below grade. The water supply line should be installed below the local frost line. Connect the H34 to the supply line with a schedule 40 galvanized riser pipe and Schedule 40 galvanized coupling. The Schedule 40 riser pipe and coupling are necessary to provide support for the H34 hydrant and to allow heat conduction to prevent freezing.

The electrical connection for the heater shall be made in accordance with local and state electrical codes. The source of power shall be protected with a circuit breaker in accordance with local and state electrical codes.

For convenient maintenance, a shut off valve ahead of each hydrant is recommended.

WARNING: FLUSH THE SUPPLY LINE BEFORE CONNECTING THE HYDRANT.

With the hydrant completely assembled, make the connection to the supply line, tightening with a pipe wrench on the pipe casing.

MAINTENANCE

To remove heater assembly from the hydrant:

1. Turn off electrical power.
2. Turn off water supply
3. Open valve to release internal pressure
4. Disconnect electrical connection at the hydrant.
5. Remove two set screws (#15) from heater cover
6. Remove heater cover (#12) while feeding electric cable through the outlet.
7. Remove brass compression nut (#13) at top of the hydrant head.
8. Pull the heater assembly (#16) out of the top of the hydrant.

To install new heater assembly:

1. Slide compression nut (#13) and compression sleeve (#14) over heater tube.
2. Insert the heater assembly (#16) into the top of the hydrant.
3. Tighten compression nut (#13) finger tight.
4. Slide heater assembly (#16) into the hydrant until 1/2" of the metal tube remains exposed above the compression nut (#13).
5. Tighten the compression nut (#13).
6. Turn on the water supply and check for leaks. If necessary, retighten the compression nut.
7. Feed the electric cable through the heater cover outlet and guide the thermostat into the cover while installing the heater cover.
8. Install and tighten two set screws for the heater cover.
9. Make proper electrical connections at the hydrant.
10. Turn on electric power.

TROUBLESHOOTING

To verify heater operation:

1. Flow water through hydrant until the water and hydrant temperature is below 70° F. The hydrant should feel cold to the touch.
2. Verify that electric power is on.
3. Verify that electric power is present at the heater connection
4. The heater should be drawing about 1/2 ampere current. Use an appropriate AC current meter to verify that current flow is present.
5. Alternately: the heater will stay on until it has heated the water (and hydrant) to approximately 90° F. The hydrant should feel warm to the touch.

FREEZE WARNING

FOR WINTER USE: Electrical power must be provided for the heater assembly to operate properly and prevent the hydrant from freezing. With proper installation and operation this hydrant will be freeze-proof where the frost depth does not exceed 7 feet and where air temperatures reach -20° F.