

# INSTALLATION, MAINTENANCE AND TROUBLE SHOOTING OF THE WOODFORD MODEL S4H HYDRANT

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## INSTALLATION

The S4H is designed to be 28 1/2" from grade to the hose connection outlet. The reservoir of the S4H extends below bury depth (frostline). The supply line should be installed deeper than normal bury depth (see overall bury depth schedule).

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

## WARNING: FLUSH SUPPLY LINE BEFORE CONNECTING HYDRANT.

With the hydrant completely assembled, make the connection to the supply line, tightening with a pipe wrench on the inlet casting (#32).

The bottom of the casing cover (#25) must be 4 1/2" above grade to allow easy access to remove the three nuts.

## MAINTENANCE

To remove hydrant from reservoir:

1. Turn off water supply.
2. Remove the three nuts located under the casing cover (#25).
3. Pull hydrant straight up and remove from the reservoir.

To reinstall:

1. Clean and inspect the two venturi O-rings (#36). Replace O-rings if damaged. Lubricate with silicone grease or other non-toxic lubricant that is safe for rubber.
2. Clean cup gasket (#26). Replace if damaged.
3. Insert hydrant in the reservoir. Align the studs with the holes in the flange. Replace and tighten the nuts.
4. Turn on water supply and check for leaks.

## TROUBLE SHOOTING

### 1. WATER LEAKS FROM UNDERNEATH CASING COVER WHILE HYDRANT IS ON.

Tighten nuts (#30) under casing cover (#25). If leak persists, remove hydrant from reservoir and inspect cup gasket (#26) for cracks or damage. Remove cup gasket and measure from top of reservoir flange (#28) to top of reservoir (#31). Dimension should be 1/2". If necessary, adjust flange by threading flange on reservoir. Reinstall hydrant.

### 2. WATER LEAKS FROM DIVERTER, OR FILLS RESERVOIR, WHILE HYDRANT IS OFF.

Check linkage adjustment. With the head cover off, lift handle and check if the linkage (#1-5) has a small amount of play and is not binding. Adjust lock nut (#15) and swivel nut (#14) down to increase play. If hydrant continues to leak, valve plug (#37) may be fouled or damaged. Remove hydrant from the reservoir. Hold or lock the handle down in an open position. Remove snap ring (#40), screen (#39) and valve plug guide (#38). Unthread valve plug (#37) with screwdriver. Check for damage or obstruction. Check venturi O-rings (#36) for damage. Reinstall parts and hydrant.

## CAUTION

A compressed spring can be dangerous. Be careful not to get fingers caught in linkage parts if spring were to suddenly expand.

## OPERATION

The hydrant shall be run for a minimum of 30 seconds before user draws for drinking water.

**FOR WINTER USE:** The hydrant must be operated at full flow, through the diverter, for a minimum of 30 seconds before and after each use to drain the hydrant and prevent freezing.