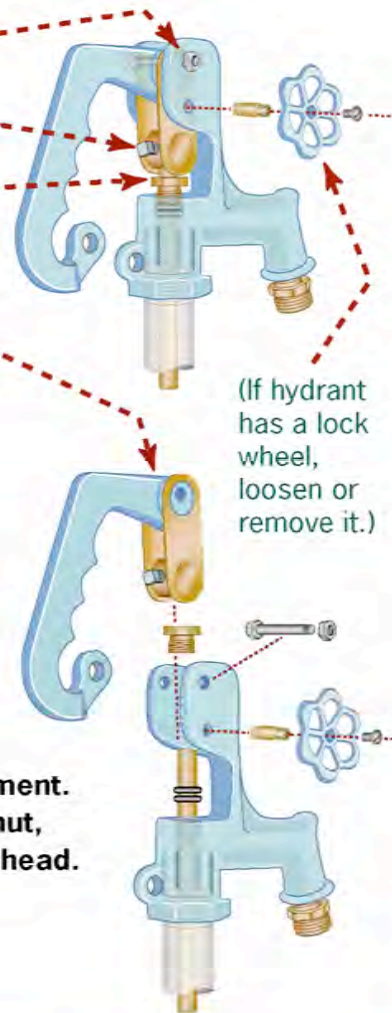


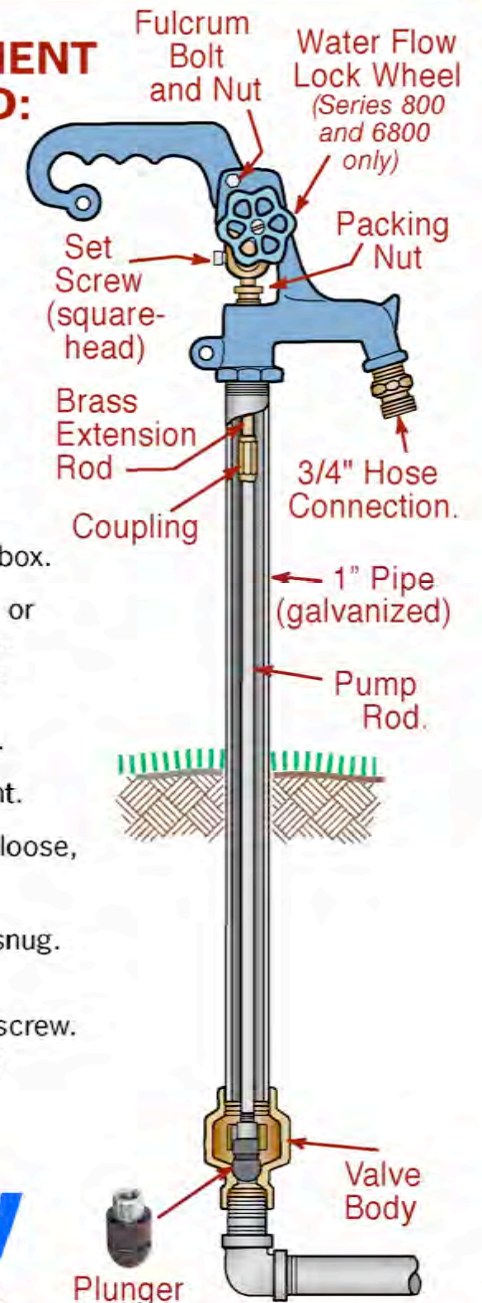
## 'O' RINGS REPLACEMENT LEAVING THE HEAD ON:

1. Remove the fulcrum bolt.
2. Loosen square-head set-screw.
3. Loosen the packing nut.
4. Lift handle, links and connector up through top of the head.
5. Unscrew packing nut and slide it up off of the brass rod.
6. Lubricate new 'O' ring with Vaseline or similar lubricant. Push the 'O' ring down into the head and replace the packing nut. **Do not over-tighten.**
7. Slide handle, links and connector back over the brass rod. Replace fulcrum bolt and nut. Tighten the square-head set-screw. **Test hydrant for proper shut-off adjustment. If water still leaks around the packing nut, see 'O' ring replacement removing the head.**
8. Go to "Shut Off Adjustment" section, steps 2 through 4.



## 'O' RINGS REPLACEMENT REMOVING THE HEAD:

1. Turn off water supply.
2. Loosen square-head set-screw located on the connector.
3. Loosen the packing nut.
4. Using two pipe wrenches, hold galvanized pipe and turn off the head casting. (*Threads are NPT.*)
5. When the head is off, unscrew the packing nut and remove.
6. Remove "o" rings from packing box.
7. Lubricate 'O' rings with Vaseline or similar lubricant. Place new 'O' rings (one at a time) on the threaded area where the packing nut screws in. Only two 'O' rings should be needed.
8. Screw on packing nut, hand tight.
9. With set-screw and packing nut loose, screw head back on rod and pipe.
10. Tighten packing nut down until snug. **Do not over-tighten.**
11. With handle closed, tighten set-screw. See "Shut Off Adjustment" section if hydrant leaks from spout.

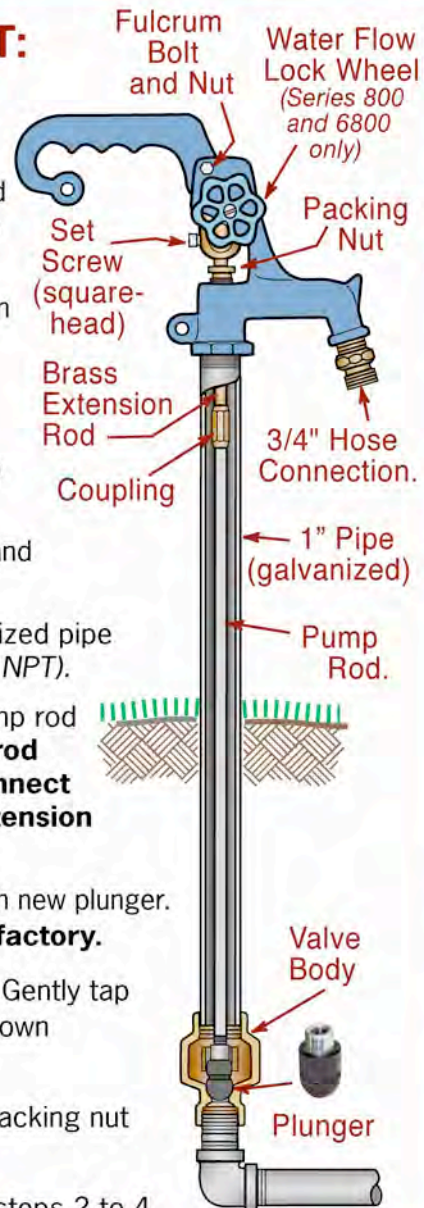


# Simmons FROST-PROOF YARD HYDRANTS

# REPAIR INSTRUCTIONS

## PLUNGER REPLACEMENT:

1. Turn water supply off.
2. Open hydrant to full-open position.
3. Loosen square-head set-screw located on connector. Allow the handle to move to closed position. (Rod does not move).
4. Reset square-head set-screw and again raise handle to full open position. (This raises the rod.)
5. Repeat steps 2 through 4 until the brass rod hits the handle and will move up no further.
6. After raising rod, loosen packing nut and square-head set-screw.
7. Using two pipe wrenches, hold galvanized pipe and turn off head casting. (All threads are NPT).
8. Place head casting aside and pull pump rod with old plunger out. **Do not turn pump rod counter-clockwise or you could disconnect the plunger. Do not damage brass extension rod with pliers or vise grips.**
9. Thread old plunger off and replace with new plunger. **Plungers are pre-lubricated from the factory.**
10. Insert rod with new plunger into pipe. Gently tap down on rod to seat plunger. Rod will go down approximately 1-1/2".
11. Replace head assembly and tighten packing nut snug. **Do not over-tighten.**
12. Go to "Shut Off Adjustment" section, steps 2 to 4.



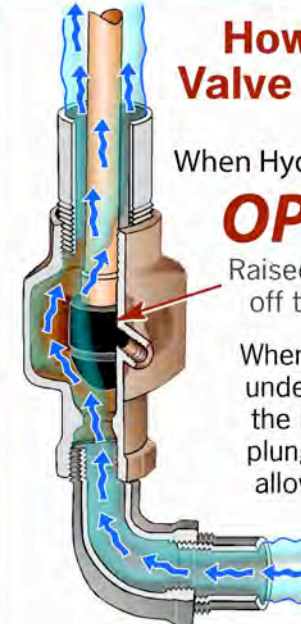
## How the Valve Works:

When Hydrant handle is

### OPEN:

Raised plunger seals off the drain outlet.

When there is water under pressure and the handle is open, plunger is raised to allow water to flow up to and out of the discharge head.

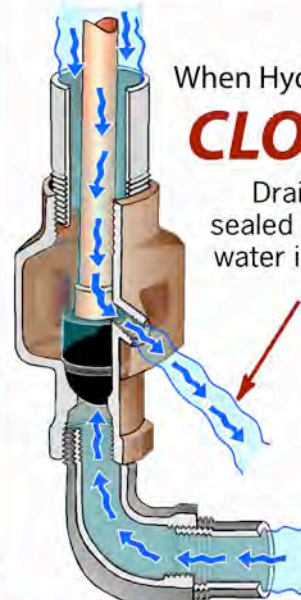


When Hydrant handle is

### CLOSED:

Drain outlet is NOT sealed off so standing water in the riser pipe drains out into the ground.

When handle is closed, the plunger is seated and blocks off the in-flow of water.



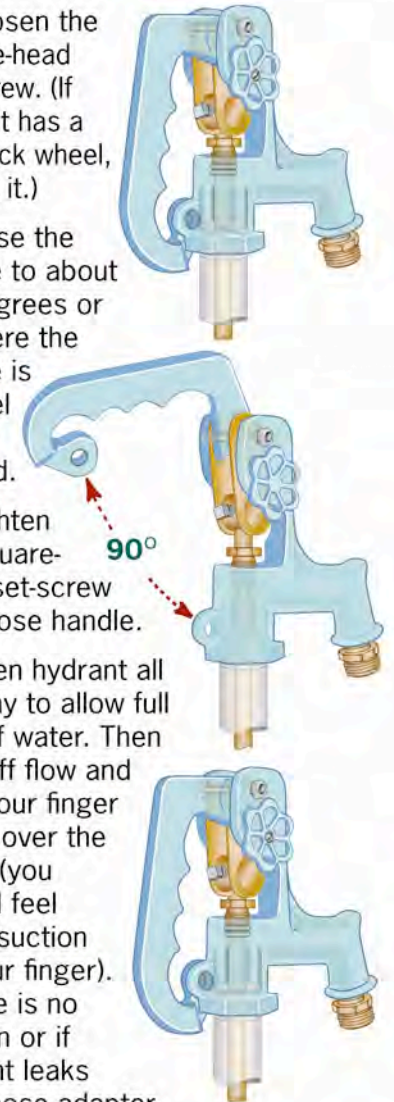
## SHUT-OFF ADJUSTMENT:

1. Loosen the square-head set-screw. (If hydrant has a flow lock wheel, loosen it.)

2. Raise the handle to about 90 degrees or to where the handle is parallel to the ground.

3. Tighten the square-head set-screw and close handle.

4. Open hydrant all the way to allow full flow of water. Then shut off flow and hold your finger lightly over the outlet (you should feel slight suction on your finger). If there is no suction or if hydrant leaks from hose adapter, repeat steps 1 and 2.



Simmons Manufacturing Company

McDonough, Georgia  
800-241-1935

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