



**Build With Purpose**

# Installation, Operation & Maintenance Instructions for the PRIER P-360 Sanitary Bury Hydrant

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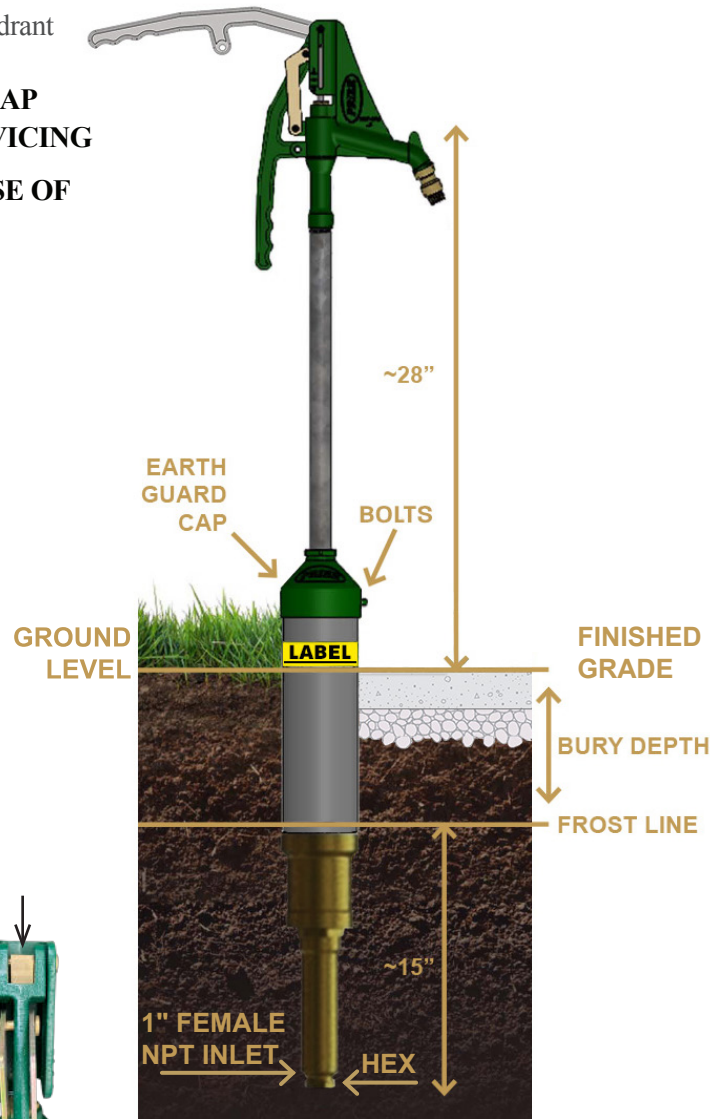


SCAN FOR VIDEO INSTRUCTIONS →

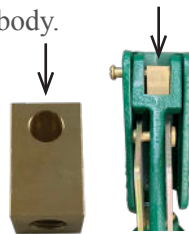
## INSTALLATION

For convenient maintenance, PRIER recommends installing a shut-off valve in front of each hydrant.

1. Dig hole 2' beyond bury depth (example: for a 5' bury hydrant, dig a 7' hole).
2. Install a large stone or block under the supply line to prevent sagging and damage to the supply line. A set of boards attached directly below the earth guard cap can be used as cross braces to support the hydrant while inlet connections are made.
  - IT IS IMPORTANT TO KEEP THE EARTH GUARD CAP 2-3" ABOVE GRADE FOR FUTURE HYDRANT SERVICING
  - KEEP A MINIMUM OF 15" CLEARNACE FROM BASE OF HYDRANT FOR FUTURE MAINTENANCE
3. Flush the water out of the supply line to remove foreign particles before connecting the water line.
4. Connect the water line using a plastic (non- metallic) adapter (Tee, 90° Elbow, etc.) to connect bury hydrant using the 1" Female NPT inlet. Make sure to use thread sealant. When tightening the hydrant use the hex provided at the inlet of hydrant to prevent damage.
5. Before backfilling, test the hydrant. Turn on water supply to check for leaks and proper operation of the hydrant. Raise and lower the lever several times. It is normal for some water to drain from the vacuum breaker holes when operating the hydrant, but no water should drain beneath ground level.
6. Fill the bottom 30" of the hole with gravel to prevent the area around the inlet connection from settling.
7. Make sure the hydrant is plumb and fill the remainder of the hole with earth to match grade. Remember to fill to the level designated by the label adhered to PVC body.



A code stamped into the handle stem pivot nut (right) corresponds to the length, month and year the hydrant was manufactured.



## OPERATION

Unlike many ground hydrants, this sanitary hydrant is designed so the potable water system cannot cross contaminate with polluted ground water. When the valve is turned to the off position, water from the valve drains into the sanitary canister below the frost line. When turning on the hydrant, water from the sanitary canister is forced out of the canister, back into the flow path. No winterization is needed for this hydrant. **During freezing temperatures, hose must be detached and hydrant turned off.**

1. The head is marked with “L” for Low Flow and “H” for High Flow. When the handle pin is aligned with the “L”, water begins to flow. Desired flow can be achieved by aligning the handle pin with the desired flow mark.
2. Close handle slightly to lessen flow or completely to stop flow, allowing water to drain and be stored below the frost line. \*Water stored inside the sanitary canister is the first to exit when re-opening the hydrant.



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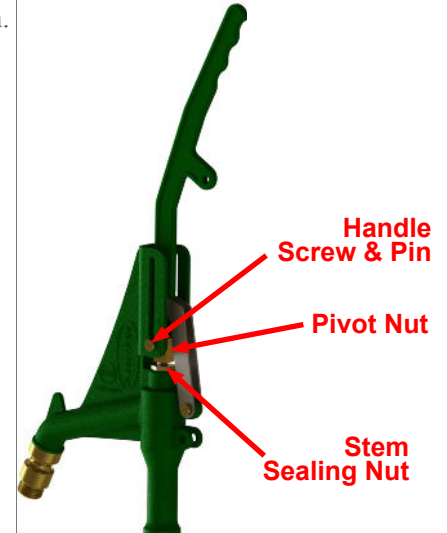
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## MAINTENANCE (TROUBLESHOOTING)

PRIER's sanitary bury hydrant is fully maintainable without removing the cast iron head from the galvanized pipe. This hydrant does not have to be winterized and is serviceable from above ground without excavation. Drain water stored in the sanitary canister is pumped back into the flow path and first to exit during operation.

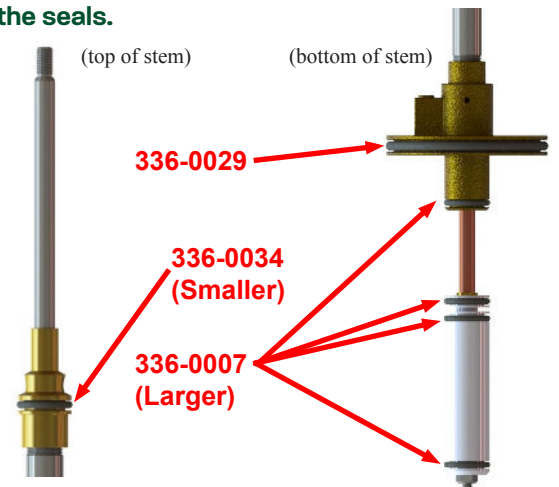
### If the hydrant has poor flow, the stem travel may need to be adjusted

1. Turn off the water supply to the hydrant and fully open hydrant.
2. Remove the Handle Pin Screw and handle pin at the handle stem connection to disengage the handle.
3. Unscrew the Pivot Nut a few revolutions and press down on the stem until it doesn't go any further. The hydrant is in its' completely open position. Ensure that the Pivot Nut is not contacting the Stem Sealing Nut. If there is no space between the two nuts, unscrew the Pivot Nut further and press down on the stem again.
4. Screw the Pivot Nut back down so the through-hole in the pivot nut aligns with the bottom of slot in the hydrant head.
5. Reinstall the handle pin and handle screw.
6. Turn on water and test operation.



### If water leaks out of the hydrant around any of the head connections during normal operation or the hydrant does not shut off when closed, it may be necessary to remove the stem and replace the seals.

1. Turn off water to the hydrant.
2. Remove the Handle Pin Screw and Handle Pin at the Handle Stem connection to disengage the Handle.
3. Unscrew the Pivot Nut and remove.
4. Unscrew the three 1/4" bolts on the Earth Guard Cap from the PVC Pipe of the hydrant. Then carefully pull the galvanized pipe and the cast iron head out.
5. Pull out inner stem straight up from the below-grade portion of the hydrant. \*The inner stem is slightly longer than the bury depth of the hydrant, pull straight up to avoid damage to the stem.
6. Once the Stem is removed, cover or plug the opening to the buried portion of the hydrant to prevent any debris from entering the bottom of the hydrant.
7. Replace all O-rings using the seal kit. Lubricate the O-rings with the provided silicone grease, as some other types of grease can damage the O-rings.
8. If there is water at the bottom of the PVC pipe, vacuum the water before installing the stem.
9. Carefully install the assembly into the below-grade portion of the hydrant.
10. Reinstall the Stem into the Head. Reinstall the Pivot Nut, but leave the handle pin and screw apart until later.
11. Align the three 1/4" bolt holes on the earth guard cap with the holes in the PVC pipe. Then thread the 1/4" bolts to secure the earth guard cap and PVC pipe together.
12. Follow the stem travel adjustment procedure above to correctly set the stem.
13. Turn on water and test hydrant for leaks and proper operation.



### If water is leaking near the stem sealing nut on the top of the head:

1. Remove the handle pin screw and handle pin to disengage the handle.
2. Remove the Pivot Nut completely.
3. Remove the Stem Sealing Nut and replace the two o-rings, one outside and one inside. Lubricate o-rings.
4. Reinstall components, refer to the stem travel adjustment above when reinstalling the Pivot Nut.



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If water is leaking through the drain holes, you might need to clean/replace the washer or replace the Vacuum Breaker:

1. **Remove the Vacuum Breaker:** Use pliers or a similar tool to remove the old Vacuum Breaker from the hydrant head (turn the vacuum breaker clockwise). If it is difficult to remove, you may need to use a torch to heat the head around the threads.
2. **Clean the Threads:** After removing the Old Vacuum Breaker, take off the O-ring at the end of the thread. Wipe and clean the threads thoroughly.
3. **Install new O-ring:** Place a new O-ring provided with the Kit on the hydrant head thread end.
4. **Apply Loctite:** Apply small amount of white 567 Loctite to the threads on the hydrant head.
5. **Install the New Vacuum Breaker:** Push the washer at the top of the new Vacuum Breaker down to make sure it's seated on the bottom shelf/ledge covering the drain holes. Then carefully screw the new Vacuum Breaker onto the hydrant head, make sure the Vacuum Breaker is screwed all the way up to the hydrant.

