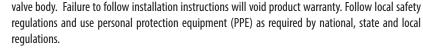


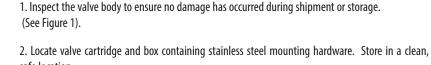
## 4" - 12" Insta-Valve 250 Patriot Valve Body Installation Instructions



Figure 1

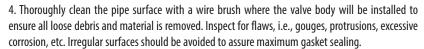


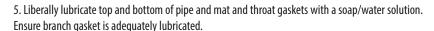
## INSTALLATION INSTRUCTION STEPS

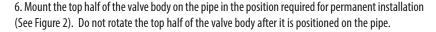


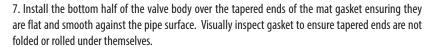


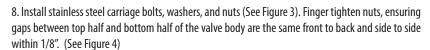
IMPORTANT: Read installation instructions COMPLETELY before installing the Insta-Valve 250 Patriot











9. Using a torque wrench, tighten nuts in proper pattern. Tightening patterns (Figures 5-7) for each size valve are on the reverse side of this document. **Repeat tightening pattern in no more than 25 ft. lb. increments until recommended torque is reached.** 

10. Wait 10 minutes to allow the gasket to fully seat then re-tighten bolts to recommended torque three additional times following the tightening pattern.





Figure 3



Figure 4

## **RECOMMENDED TORQUE:**

 4" - 8" Insta-Valve 250 Patriot
 10" - 12" Insta-Valve 250 Patriot

 CI / DI Pipe: 115 ft-lbs.
 CI / DI Pipe: 65 ft-lbs.

PVC Pipe: 55 ft-lbs.

AC Pipe: 75 ft-lbs.

AC Pipe: 60 ft-lbs.

Installation instructions and best practices continued on reverse

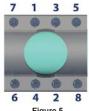


Figure 5 4" - 6" Bolt Tightening Pattern

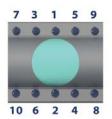


Figure 6 8" Bolt Tightening Pattern

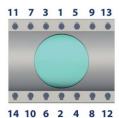


Figure 7 10" and 12" Bolt Tightening Pattern



Figure 8
Completion pins NOT flush with inner valve flange. DO NOT ATTEMPT
VALVE INSTALLATION WITH PINS IN
THIS POSITION.

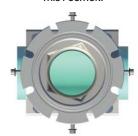


Figure 9
Completion pins flush with I.D. of flange. This is correct position to begin pressure test and continue with installation procedure.

- 11. Check inside of valve body outlet to ensure gasket is properly seated. Completion pins are shipped in the fully installed position. **Backout and ensure completion pins are flush with I.D. of the flange (See Figure 8 and 9).**
- 12. Fill valve body with water. Install Quick Pressure Test Plug (from Hydra-Q.I.K. kit) or test flange. Perform pressure test to ensure a complete seal between the valve body and pipe. DO NOT use a compressible medium such as air.

Minimum Test Pressure: 1.5 times the system working pressure Maximum Test Pressure: 375 psi

- 13. Remove the Quick Pressure Test Plug or test flange.
- 14. Following the tightening pattern, re-torque carriage bolts to recommended torque before continuing.
- 15. Properly block (support) Insta-Valve 250 Patriot valve body and ensure pipe joints are properly restrained. Proceed with valve insertion operation.

## **INSTALLATION BEST PRACTICES:**

- Keep nuts and bolts clean and free of debris.
- Adequately lubricate pipe and Insta-Valve 250 Patriot gaskets with soap/water solution paying special attention to AC pipe. Ensure branch gasket is adequately lubricated. Do not use grease or pipe lubricant.
- Avoid rotating top half of Insta-Valve 250 Patriot once placed on pipe.
- Do not use a powered wrench to tighten nuts. You will gall the bolts and damage the valve.
- Block / support the pipe before installing the tapping machine.
- Ensure all pipe joints are restrained prior to proceeding to valve insertion operation.
- Label valve body with a paint pen or permanent marker with the tightening pattern as a visual reminder of the tightening pattern.



144 Tower Drive, Suite A, Burr Ridge, IL 60527 Phone: 708-389-5111 Fax: 708-389-5125 Toll Free: 1-800-538-7867

Call Hydra-Stop for Technical Support at 800.538,7867 or visit us on the web at www.hydra-stop.com