

Series 2600 Pinch Valve / Series 2633 Inline Check Valve Installation, Operation and Maintenance Manual



Red Valve's Series 2600 pinch valve and Series 2633 small diameter inline check valve are the simplest valves available to industry. They have only four parts and require little or no maintenance. These valves are designed with threaded end connections for easy installation and removal on small lines up to 3" in diameter. A spare replacement sleeve should be ordered when the valve is placed in service.

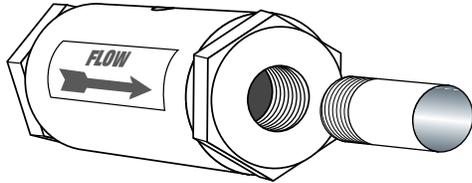
NOTE: 2" and 3" PVC Series 2600's may have hose clamps on the body of the valve. These clamps must be loosened when removing the sleeve.

IMPORTANT

Please take a moment to review this manual. Before performing any maintenance on the valve be sure that the pipeline has been depressurized. The improper installation or use of this product may result in personal injury, product failure, or reduced product life. Red Valve Company can accept NO liability resulting from the improper use or installation of this product. If you have any questions or problems, please call the customer service hotline at (412) 279-0044. We appreciate your comments. Thank you for choosing Red Valve.

INSPECTION OF PRODUCT

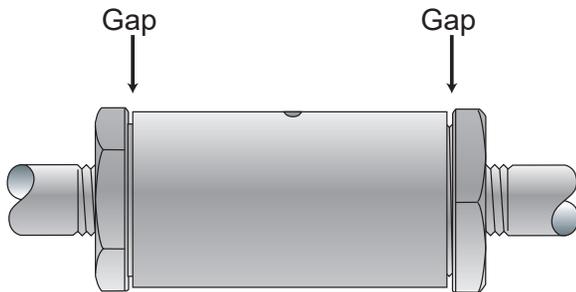
Before installing, be sure the pipe threads are clean. A sealing material such as pipe dope can be used. Direction of flow is indicated on the 2633. Be sure that it is in the proper orientation before installing.



INSTALLATION

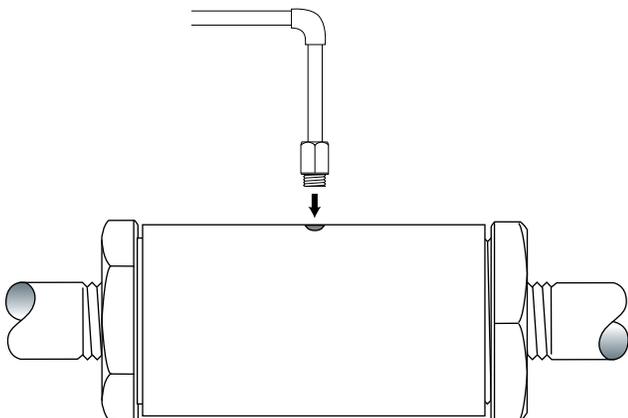
1. INSTALLING VALVE

Use a wrench to tighten the valve by turning the end caps. Turning the body can damage the rubber inside. Once installed, if a small gap exists between the body and end cap, do not tighten further. This can twist the rubber flange inside and cause damage.



2. AIR SUPPLY PORT

Air supply is connected to the 1/4" NPT port. This port is normally plugged on the 2633, but can be used as a drain or piped as a flush port. Use the chart below to determine the correct air pressure needed to close the 2600.



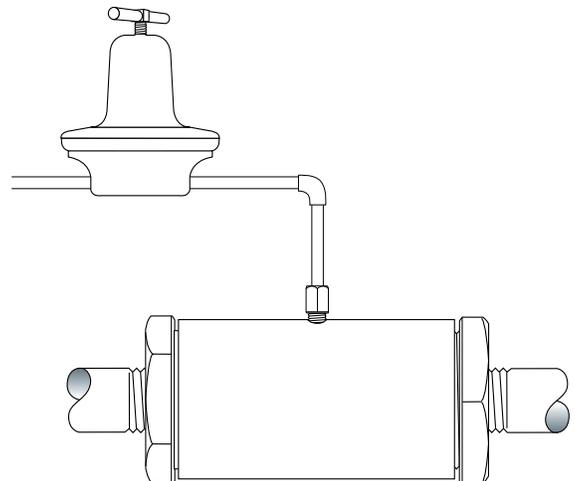
AIR CLOSING PRESSURE

Valve Size (in.)	Internal Line Pressure (psi)	Air Closing Pressure PGR (psi)	Air Closing Pressure Synthetic (psi)
1/8" — 1/2"	75	29	35
3/4" — 1"	75	31	39
1-1/4"	50	31	39
1-1/2" — 2"	50	37	44

* **Note:** Closing pressures are to be added to line pressure.

3. PRESSURE REGULATORS

To avoid over-pressurizing the valve when closing, a pressure regulator should be installed. Pressure in excess of 50 psi above pipeline pressure can tear the rubber at the flange. Higher pressures require the sleeves to be reinforced with fiberglass short threads.



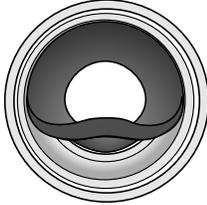
REPLACING SLEEVES

1. REMOVE VALVE

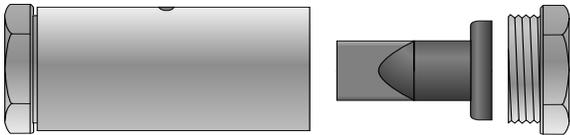
Remove the valve from the pipeline using a wrench to turn the end caps. Do not grip the valve body! A spare replacement sleeve should be placed on order when this valve is placed in service.

2. REMOVE SLEEVE

2600: Unscrew both end caps from the body. Pry one side of either rubber flange out of its seat with a dull blade or screwdriver. Fold this edge over into the center of the sleeve and push the flange fully through the seat. Pull the sleeve out of the body.

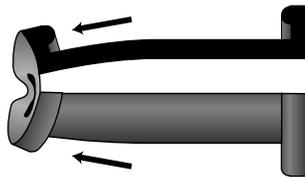


2633: Unscrew the end cap on the inlet side of the valve. Pry one side of the rubber flange up using a screwdriver or dull blade and pull up to remove the duckbill sleeve from the valve body. The other rubber seal will only need to be changed if seriously worn.

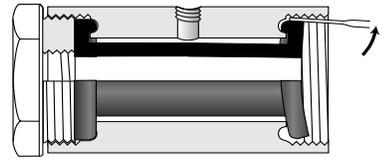


3. REPLACE SLEEVE

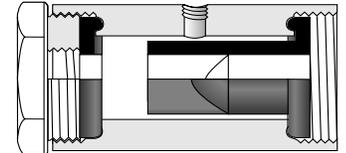
2600: Lubricate the new sleeve with soapy water. Pinch the sides of one flange together and squeeze through the seat. Push the sleeve through the valve body. Carefully pull the flange through the opposite seat. Do not use sharp tools or screwdrivers.



The ridge molded into the rubber flange must be pressed into the groove in the seat. Use a dull blade to pry up one edge of the flange and snap the flange into place. Firmly push into place around the entire flange.

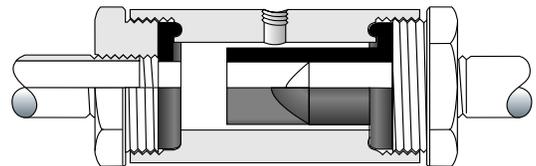


2633: The new duckbill sleeve is simply inserted into the body. Make sure that the ridge on the rubber flange properly fits into the groove in the seat by firmly pressing into place around the entire flange.



4. REINSTALL END CAPS

To reinstall the end caps, lubricate the exposed rubber flange and tighten the end cap until snug. Do not overtighten or the rubber flange may twist or tear. Caps will not bottom out on the valve body.



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