



INSTALLATION & OPERATION GUIDE

Please the installation guide before use

1. Product Overview

This common guide covers compatible cast iron flanged-end non-return valves used in irrigation and water-delivery systems. The non-return mechanism is intended to restrict reverse flow when correctly installed and maintained.

2. Before Installation

- Confirm valve size, flange dimensions, and pipework compatibility.
- Verify the intended flow direction.
- Inspect valve body, flange faces, and internal mechanism for damage or debris.
- Select a suitable gasket and compatible flange fasteners.
- Ensure the system is isolated and fully depressurized before work.

3. Installation Procedure

1. Position the valve with the flow arrow pointing in the intended delivery direction.
2. Align the mating flanges without forcing the valve into position.
3. Place a suitable gasket between the flange faces.
4. Insert the flange bolts and hand-tighten the nuts.
5. Tighten bolts gradually and evenly in a cross pattern using suitable tools.
6. Support adjoining pipework so excessive load is not transferred to the valve.

4. Commissioning

Start the system gradually. Check the flange joints for leakage and confirm that the valve permits intended forward flow and restricts reverse flow. Stop safely if abnormal operation, leakage, or excessive vibration is observed.

5. Maintenance

Inspect the valve and flange joints periodically, and whenever there is reverse flow, reduced delivery, or abnormal operation. Periodically inspect the valve and flange joints, especially when you notice reverse flow, reduced delivery, or abnormal operation. Isolate and depressurize before inspection. Check gasket condition, flange bolts, and the internal valve mechanism for debris, wear, or damage.

6. Troubleshooting

Flange leakage: isolate and depressurize; check alignment, gasket condition, flange faces, and evenness of bolt tightening.

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Reverse flow: verify flow direction and inspect the internal non-return mechanism for debris, wear, or damage.

Reduced forward flow: check for blockage or obstruction after safely isolating the system.

7. Safety

Never install, adjust, open, or dismantle the valve while the system is running or pressurized. Follow pump, piping, and site safety procedures.

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