



WARREN VALVE INSTALLATION, OPERATION AND MAINTENANCE

Warren Valve Model #221, 222, 223

INSTALLATION

1. Prior to installation the valves should be stored in such a manner as to prevent contamination by the elements.
2. Keep end protection on the valves until they are installed. Protection caps, fitted to the inlet and outlet connections, should not be removed until immediately prior to installation. Prepare the pipe connection and the valve connection using standard piping procedures.
3. Follow gasket manufacturers' recommendation for tightening of gaskets.
4. Check valves are installed with the flow in the direction of the arrow on the valve body, if any. Gate valves are bi-directional.
5. Remove wooden wedges or props from inside the flapper area of all swing check valves prior to installation.
6. For valves having NPT ends, be aware that excessive over-tightening of threaded valves to the pipe connections may cause damage to the valve body and/or valve seat area.
7. After installation, ensure that all valves are in the fully opened position for thorough flushing before operating. Failure to do this could result in welding scale or other foreign particles being trapped between the valve seats, causing damage to both faces.



8. After installation, the stem will require to be lubricated with compatible lubricant. The packing gland is loosened after hydro test to prevent its compression during storage. Thus the packing gland shall be re-tightened by 0.5 to 1 turns to prevent leakage through the packing area.

OPERATION

1. Manually operated, including gear operated, gate and globe valves operate by turning handwheel counter-clockwise for opening the flow and clockwise for closing the flow. Check valves operate automatically with flow conditions.

MAINTENANCE

Packing and Gaskets

Valves are designed for long life, however, periodically inspection for possible stem leakage is recommended. Should stem leakage be observed, tighten the gland nut no more than 1/8 of a turn at a time until leak has stopped. CAUTION – overtightening of the packing will cause increased torque and reduce valve life. Packing and gasket may need to be replaced every two (2) to five (5) years.