The Right Connection®

Model UHGV250F
Hydrant Gate Valve
Installation Instructions

Intended Use

Dixon Powhatan® brand hydrant gate valves are intended to provide connections for hose service and throttle the flow from a standpipe connections, hydrants, or fire pumps. These valves are intended for non-potable water service only. Working conditions are limited to the liquid range of water. They are intended for installation on systems that are non-pressurized when not in use and offer the advantage of gradual, controlled opening and closing, reducing the possibility of a "water hammer".

Before Installation

Connection on the inlet side is by 2-1/2" female NH thread. Standard outlet connection is 2-1/2" male NH. Other nominal 2-1/2" thread sizes are available upon request.

Ensure that the inlet and outlet threads are undamaged and free of debris. Check operation of the valve that it fully opens and closes smoothly and that the stem has not been bent in transport.

Installation

The angle valve installation and use are in accordance with NFPA 13, NFPA 13R, NFPA 14 or NFPA 20.

Hose valve equivalent length values: Model: UHGV250F Equivalent length: 1.0ft

System should be flushed, and threads cleaned prior to installation. Connect the swivel side of the gate valve to the hydrant and tighten with a spanner or lug wrench, position it in the desired orientation. DO NOT use the handwheel or bear against the valve stem while tightening.

After Installation

Close the valve fully and apply system pressure. Maximum working pressure is **175 PSI (12.1 Bar, 1.21 Mega Pascal)**. Check for any leakage at the inlet connection. If there is any leakage, the valve must be removed and inspect the condition of the hose gasket. There may be some seepage of fluid around the valve seat. Valve seats are designed so that repeated opening and closing maintains or improves sealing capability.

Maintenance

Dixon® hydrant gate valves require regular cleaning and maintenance; lubrication should be applied to the stem and gate to ensure smooth operation. They should be operated at least once a year to ensure the mechanism operates freely.

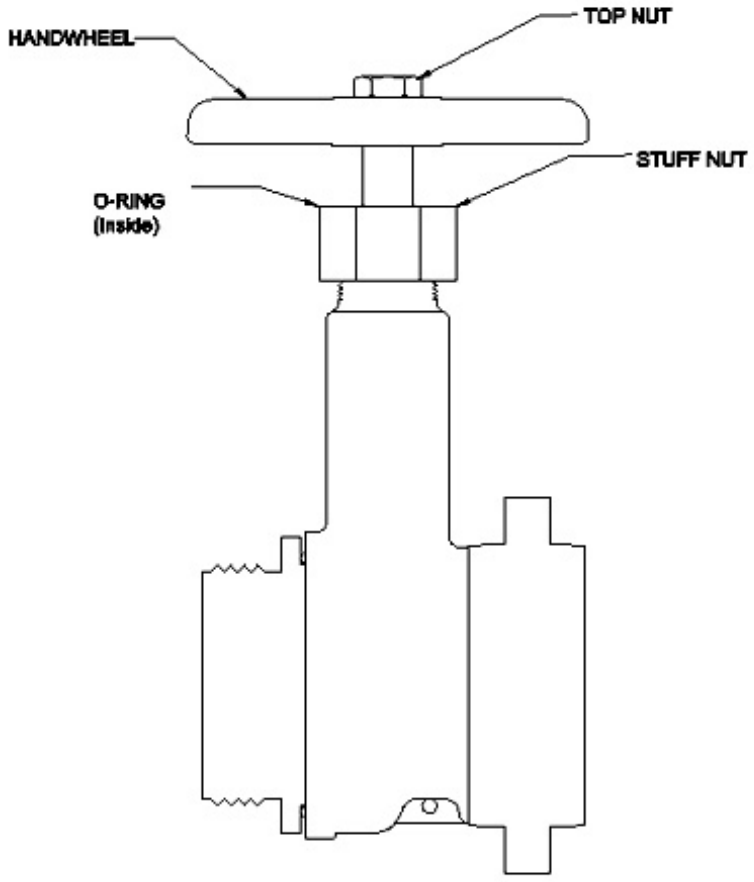
Service

The only wear part that may require replacement is the stem O-ring. To access it, close the valve and turn off any upstream water supply. Loosen the hex nut above the handwheel and remove and set aside. Remove the handwheel. Handwheel may be tapped parallel to the stem with a rubber mallet if it does not come off by hand. Do not strike the handwheel sideways as this may damage the stem. Remove the stuff nut to access the O-ring. Use the handwheel to turn the stem to expose the stem O-ring. If the O-ring does not come off easily, do not pry with a metal object as this may damage the sealing surfaces. Plastic or wood may be used as a pick to loosen the O-ring. Clean the sealing surfaces, replace the O-ring and apply lubrication to the stem threads. Inspect the face of the shutter, apply lubrication, reassemble the stem, stuff nut and handwheel. Rotate the handwheel to check for smooth operation of the valve.

Additional service: The swivel gasket can be replaced by removing the valve from the system. Replacement of the internal adapter O-ring requires the removal of the valve and returned to the manufacturer.

The valve should be tested and maintained in accordance with NFPA 25.

Hydrant Gate Valve Breakdown



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