



## OPERATING INSTRUCTIONS

### 4-Way Hydrant Valve Style 627

The following is intended to provide the basic instructions for operating the 4-Way Hydrant Valve. Read and understand these operating instructions before use.

## PRODUCT RATINGS

Maximum Operating Pressure: 300 psi

Maximum Flow: 1000 gpm per side

Maximum Flow & Pressure During Changeover: 300 gpm & 75 psi differential

## PRODUCT WARNINGS

- ⚠ WARNING:** **DO NOT THROTTLE, STOP, OR OPERATE BETWEEN STOP POSITIONS!** Changeover should be made in 3 seconds or more, using one continuous motion, until the handle reaches the stop. Throttling could cause damage to the valve.
- ⚠ WARNING:** Ensure the threads on the 4-Way Hydrant Valve are matched to the threads on the hose connections and hydrant.
- ⚠ WARNING:** Always fill auxiliary pumper lines before “changing over”. Changeover to empty auxiliary lines may cause water hammer and could damage the valve.
- ⚠ WARNING:** Ensure the area around the hydrant valve when attached to the hydrant is clear. Do not wedge hoses in between obstructions and the hydrant valve during hook-up. This places additional stress on the hydrant valve connection during operating and can cause failure.
- ⚠ WARNING:** Do not connect the hose coupling to the 4-way valve mounted on the hydrant until the pumper laying out the hose has reached its destination and has been positioned. If the hose is connected while it is being “played out”, a coupling could catch on the rear of the pumper, creating a hard pull on the hose, which can damage the hydrant valve.

## PRODUCT CAUTIONS

- ⚠ CAUTION:** If any tags or bands on the valve are worn or damaged and cannot be easily read, they should be replaced.
- ⚠ CAUTION:** For use with fresh water or standard fire fighting foams only. Not recommended for use with salt water. After use with foam or salt water, flush with fresh water.
- ⚠ CAUTION:** Drain after use.
- ⚠ CAUTION:** For fire fighting use only.
- ⚠ CAUTION:** Do not over tighten the hose or hydrant connections.
- ⚠ CAUTION:** The 4-Way Hydrant Valve is configured for optimum performance. Do not alter in any manner.
- ⚠ CAUTION:** Always store the valve with the handle against the stop.
- ⚠ CAUTION:** Your 4-Way Hydrant Valve should be inspected prior and after each use, to ensure it is in good operating condition. Periodically, an unanticipated incident may occur where the valve is used in a manner that is inconsistent with

standard operating practices and those listed in IFSTA. A partial list of potential misuses follows:

- Operating above maximum rated pressure and flow.
- Not draining, and allowing water to freeze inside the valve.
- Dropping the valve from a height where damage is incurred.
- Prolonged exposure to temperatures above +130 degrees F, or below -25 degrees F.
- Operating in a corrosive environment.
- Other misuse that might be unique to your specific fire fighting environment.

There are many “tell tale” signs that indicate valve repair is in order, such as:

- Controls that are either inoperable or difficult to operate.
- Excessive wear.
- Water leaks.

If any of the above situations are encountered, the valve should be taken out of service and repaired, plus tested by qualified valve technicians, prior to placing back in service.

## OPERATING INSTRUCTIONS

### SET UP FOR INITIAL ATTACK:

- Attach the inlet port marked “HYDRANT” to the hydrant discharge
- Attach one end of the supply hose to the discharge port marked “TO FIRE” and the other end to the pumper intake
- Pull the handle towards the “TO FIRE” port, until it hits the stop.
- When you are ready to flow, open the hydrant slowly.

### SET UP FOR AUXILIARY PUMPER:

- Attach one end of the supply hose to the discharge port marked “TO PUMP” and the other end to the intake of the auxiliary pumper.
- Attach one end of the discharge hose to the discharge port of the auxiliary pumper and attach the other end to the port marked “FROM PUMP.”

### CHANGEOVER:

- With the auxiliary pumper set up, fill the lines from the tank and engage the pump at idle.
- Throttle down the initial pumper (Note: 300 gpm & 75 psi differential max.) Pull the valve handle slowly and continuously towards the “TO PUMP” port, until it hits the stop. **DO NOT THROTTLE, STOP OR OPERATE BETWEEN STOP POSITIONS!**
- Throttle pumpers up to the desired operating flows and pressures. Note: 1000 gpm per side and 300 psi max.
- Drain after use.

### MAINTENANCE:

- Under normal conditions, periodically flushing the valve with clean water and cleaning grit and dirt from around exterior moving parts will allow the valve to operate as designed.
- Over time, the seals may need to be replaced. This can be accomplished by purchasing the required parts. Use qualified maintenance mechanics or return the valve to Akron Brass for repair.



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