



# TOLEDO FIRE & RESCUE DEPARTMENT



## D-5 Pumps

### Maintenance Manual

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### Relief Valves

Once a week on tool day, the relief valve shall be exercised all the way in and out, with the pump under pressure, to prevent it from seating in one position. The relief valve should then be preset to 150 psi. The correct procedure to set the relief valve follows:

- Put pump in gear.
- Open the tank to pump valve fully.
- Open the tank fill valve 4 of the way or so.
- Turn relief valve counter clockwise to the closed position, then clockwise to the full open position.
- Throttle pump up to 150 psi.
- With water circulating from the tank to the pump and back to the tank, set the relief valve to 150 psi.

Relief valves will tend to stick if not used frequently. Engaging the pump and working the relief valve several times each week will eliminate sticking.

### Discharge Gate Valves

Lubrication of the discharge gate valves is most important. Some manufacturers provide grease fittings for this purpose. There are some ball-type gate valves, however, for which no provision has been made. It is recommended that light oil such as WD-40 be used to lubricate the gate valves.

## Monthly Big Way Intake Threads

A bit of grease on the threads will help reduce friction and protect the threads on the engine from corrosive problems.

## Flushing and Cleaning Pumps

- Pumps shall be back-flushed once a month and noted on form 300-3.
- Pumps will be flushed from a hydrant after drafting
  - The back flushing of the pump is conducted by connecting a 2.5" or 3" hose, supplied from a hydrant, and connected to a discharge port of the apparatus.
  - Big way valves and caps are removed.
  - The hydrant is opened, forcing water into the top of the pump, flowing water and any debris out of the big way ports.
  - This should be done for a minimum of five (5) minutes.

## Drafting Water

Drafting from ponds, creeks, etc., for training purposes is not recommended. Sand, silt, and dirt can damage pumps and priming pumps. Draft from these sources only in emergency situations.

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See Also:

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