



## **STYLE 8840 4" VALVE INSTALLATION INSTRUCTIONS**

### **GENERAL INFORMATION**

The Style 8840 Valve utilizes a flat ball concept providing an open area greater than a typical 4" waterway. This design features a 4" long body and has easy operation with limited friction loss.

The valve has the Swing-Out™ feature and is designed for easy service with only one seat and an aluminum bronze flat ball which will rarely need to be changed.

The valve has a rated working pressure of 250 PSI in the flow direction, but will hold 100 PSI in the reverse direction. It is hydrostatically rated at 500 PSI.

This valve is single directional and must be installed with the 250 PSI directional arrow (cast on valve body) pointing away from the pump regardless if it is for discharge or intake applications.

**NOTE:** If valve is used as an intake, it must be installed with the 250 psi directional arrow towards the swivel intake.

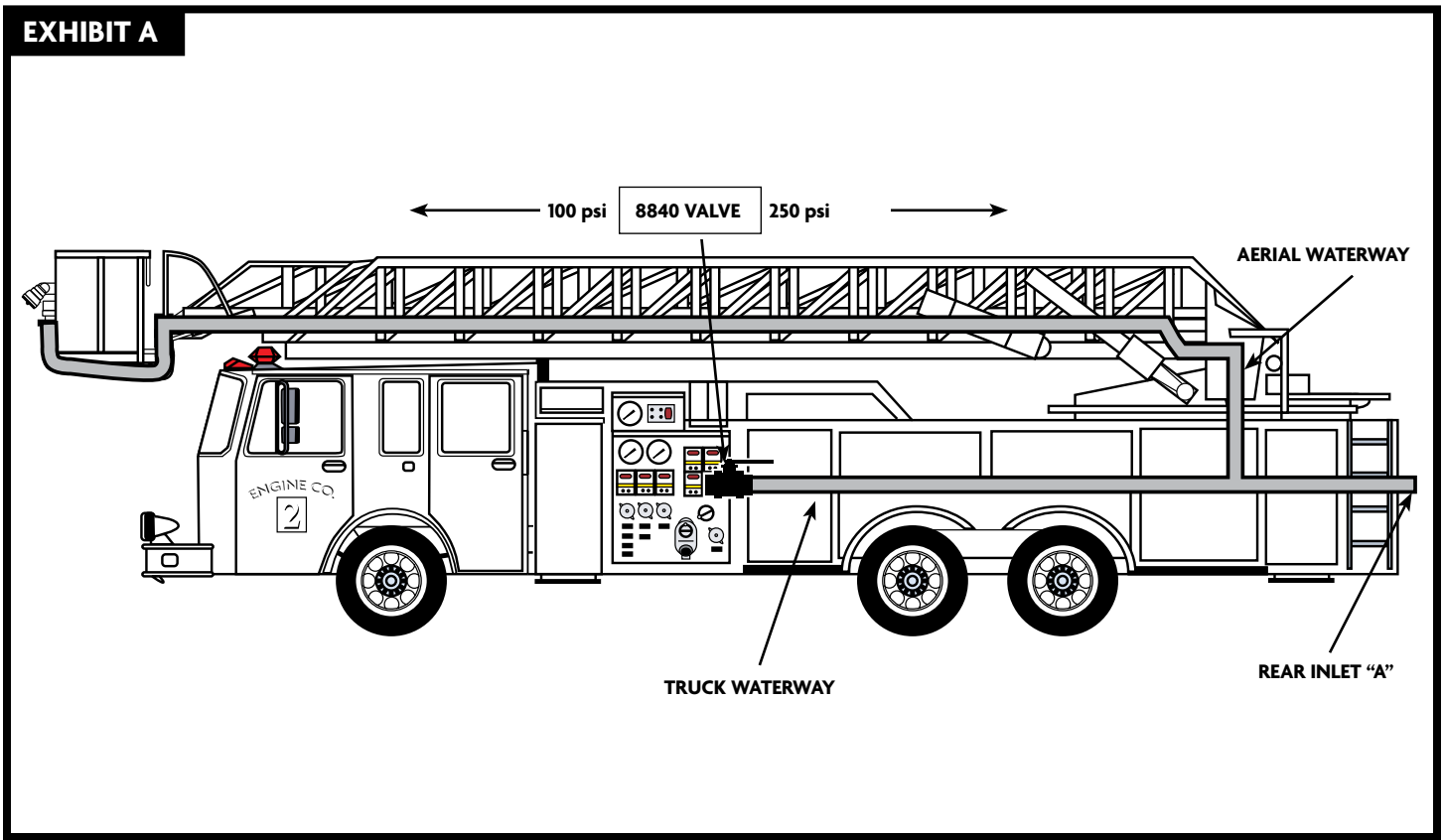
It is available with a manual gear, electric or air actuator. The manual gear actuator has a 50:1 gear ratio (12-1/2 turns) and utilizes a 6" chrome handwheel and position indicator. The electric actuator is reduced to 25:1 (approximately 8-10 second open/close speed) and is operated by an Akron Navigator Controller.

### **INSTALLATION**

1. Plumb into the pump system as usual being sure to heed the flow directional arrow cast on the body.
2. The actuators can be mounted in one of four positions. Both the manual gear and the electric gear actuators utilize the same flat ball. The air actuated unit has a different flat ball.
3. Keep the piping aligned so undue stresses are not placed on the valve. Victaulic connections in lieu of pipe threads do help.
4. If adapters are removed for installation, make sure white flange seal rings are in place when closing the valve. Close the flat ball when attaching flanges to body.
5. Snug up flange bolts alternately (not adjacently) when securing flanges to valve body. Tighten each to 60-70 foot pounds. (Also alternately)
6. Electric actuators should be installed in a direction where the manual override is accessible.
7. If any welding is to be done on the truck, disconnect electrical connections until welding is finished.

**NOTE:** If actuators are removed for repositioning, always use Loctite 222 or Permabond LM113 on mounting screws.

NOTE: Style 8840 valves installed in aerial waterway as shown (see Exhibit A), may be subjected to back pressures higher than 100 psi if valve is closed and water is supplied through rear inlet "A" during auxiliary operations. Pressures over 100 psi could allow small volume of water to pass through the valve on the upstream side. Back pressures up to 250 psi, will not affect valve seating system or fire pump.



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