

Singer DL Relief Valve Provides Pump Station with Surge Protection & More

Problem: The Township had an ongoing issue with power failures that led to surges coming back to the station. The surges had the potential to cause severe damage to the piping system. The Township was proposing the use of VFD pump controls and also wanted to simplify their existing check valves from hydraulic control checks to conventional swing checks to reduce maintenance. This change made it even more important to specify a surge valve that would provide the ultimate protection against surges ensuring that no damage would occur in the event of a power failure.

Solution: Kennedy Industries and Singer Valve analyzed the application and recommended the Singer model DL surge relief valve. The Singer DL surge relief valve was provided with standard features like epoxy coated body, stainless steel seat and bolting which provides the ultimate in corrosion protection in harsh environments. The Singer DL surge valve opens when the force main pressure exceeds the user selectable pressure and closes when the pressure lowers below the set point. As the design progressed with the Engineer and Township they expressed interest in a feature that would flush the wet well as sludge build up was an issue. The Singer model A106-DL-A incorporates a solenoid valve that when actuated by the controls allows the surge relief valve to open flushing the wet well for a user predetermined time, then shut off while the pump continues pumping to the force main. This feature will ensure that the wet well stays agitated not allowing sludge build up that can be a significant maintenance item.



Singer DL Relief Valve Installed



Singer Model A106-DL-A installed

Singer Model A106-DL-A

Key Features:

- Handles higher pressure applications
 - Adjustable closing speed
- Eliminates surges and extends pipe life
- Utilizes compressor or plant air

