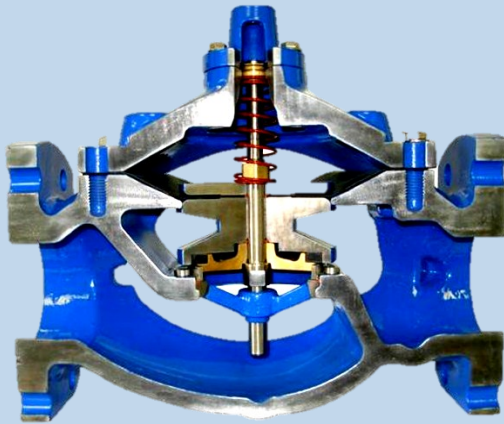


Singer Valve 106-PR Eliminates the Need for a Low-Flow Bypass and Saves Money



Product Features:

- Precise control of flow
- Corrosion resistant features
- A self-flushing pilot reacting to small changes in pressure
- Responds effectively & quickly

Problem: Zeeland, MI approached Kennedy Industries about solving issues they were having with an existing 12" pressure reducing valve (PRV) on their water transmission line. The existing valve was a diaphragm actuated control valve with pilot valve and tubing that sensed the downstream pressure and closed the valve, to reduce pressure. Transmission line flows ranged from 7,000 gpm down to 400 gpm and the existing PRV struggled to control, often chattered, and performed inconsistently at the low and high flows. Zeeland also had numerous maintenance issues relating to cleaning the pilot system, which would often clog. Located in an underground vault, confined space was an issue and safety was a concern when trying to maintain the severely corroded valve.

The owner evaluated the cost of repair versus buying new. However, repair costs were high and even after repair the existing valve would still not have the stable control throughout the entire flow range, without the addition of a low flow bypass. The optimal solution was to replace with a new Singer Valve.

Solution: Kennedy Industries proposed and supplied a new Singer PRV that would perform consistently at the full range of flows while also reducing valve maintenance. The Singer Valve model 106-PR is equipped with a single rolling diaphragm for stable and precise control of flows as low 5 gpm on the 12" size. This allowed the customer to use one valve to regulate pressure for the full range of flows and eliminated the need for a costly low-flow bypass which would include additional piping, valves, and space.

All Singer valve products include corrosion resistant features like fusion bond epoxy coating, stainless steel fasteners, Teflon lined stainless steel braided tubing, and a stainless steel seat that is guaranteed for the life of the valve. While the Singer valve still operates by the same principal as the previous PRV, the model 106-PR also includes a self-flushing pilot. Every time the valve operates, the pilot essentially self-cleans, reducing clogged pilots and potential valve failures. To help for future trouble-shooting and maintenance, Kennedy Industries also added pressure gauges on the valve as well as a visual position indicator.

The Singer model 106-PR with single rolling diaphragm technology provided an all-inclusive solution to Zeeland's previous issues. The valve was installed by a local contractor and is working flawlessly.

