

The Client

Kneehill County,
Alberta, Canada

The Challenge

High pressure changes in transmission line due to elevation changes

The Solution

A Singer packaged system with pressure reducing valves and anti-cavitation trim so residents receive water at a pressure they can use.

The Result

A customized cost-effective, low maintenance valve station that was installed in one day.

Singer Valve Station is Ideal Solution

Expansive blue skies. Rolling hills and fields of grain. It's beautiful in Kneehill County, Alberta, a rural district in one of Canada's prairie provinces. But transmitting water to its rural residents was not easy. When more and more residents chose to tap into the regional transmission line, the system was required to pump at very high pressure due to the drastic changes in elevation. To ensure the residents received the water at a pressure they could utilize, the county needed to install pressure reducing valves.

Tarek Saman, municipal project coordinator at Genivar Engineering, was tasked with specifying the pressure reducing valves. After consulting with Don Hope, municipal sales manager of Summit Valve and Controls, Tarek chose Singer Valve's pressure reducing valves. But a conventional system, with two pressure reducing valves in series to handle the pressure drop, would result in a large and expensive station. Knowing that Singer Valve could design and build a packaged system to accommodate the PRVs and the transmission system, Hope suggested the concept for the Kneehill County project.



"Utilizing Singer's anti-cavitation trim on the valve in a packaged system allowed Singer to manufacture and deliver a cost-effective, low maintenance solution," adds Hope. "The county needed three stations so we provided all of them."

For Tarek, the advantages of choosing a Singer Packaged System for the project were obvious.

"The primary reason we chose a Singer packaged system was the ease of installation," says Tarek. "Ordering a packaged system is extremely efficient in many ways but to install the station in one day was the biggest benefit for us."

What are the efficiencies in ordering a Singer packaged system? "We take care of everything," says Clint Smith, manager of Singer Packaged Systems. "The customer specifies what the station needs and we take care of the design and the drawings. We order the components. We ensure the proper approvals. We build and assemble the station. We conduct pressure tests. We do everything."

For many clients, like Kneehill County, one-day installation means less time on site, especially in winter conditions, and that translates into lower cost. Because a Singer packaged system arrives at the site assembled, approved and tested, installation into an excavated site may require only one hour. Add time for coupling and final testing, Smith says the Singer packaged system takes about a day's work instead of a week.

A Singer packaged system also means quality.

"Because we take responsibility for everything, we guarantee our work," says Smith. "Often, when a station is built on site, things are forced to fit because the work has to be completed quickly. Our Singer packaged systems are built in our factory-controlled environment so any adjustments are made before the chamber arrives on site."

For Kneehill County and its consulting engineers, specifying and installing a Singer Packaged System has been ideal.

"Singer's customer service is great," adds Tarek Saman. "You know us engineers. We want answers right away and Singer always calls back."

singervalve.com





Kneehill Project

About Singer Packaged Systems

Singer Packaged Systems offers a complete line of standard and custom designed, tested and packaged valve stations, ready for site installation and mainline connection. A division of Singer Valve Inc., Singer Packaged Systems is backed by over 50 years of design and manufacturing expertise.

Benefits

- We design it.
- We prepare accurate AutoCAD drawings.
- We seek the approvals.
- We specify the components.
- We source the components.
- We build the system.
- We test it.
- We deliver it.

Features

- Heat Fusion Epoxy coating on all spool pieces internally and externally
- Quality components
- Guaranteed field performance
- Superior design details
- Full range of options

Advantages

- Less money: Save up to 60% on capital costs compared with on-site construction.
- Less work: Designed and packaged to suit the customer.
- Less worry: Tested and calibrated to ensure easy installation.
- Less time: One-day installation with minimal service and site disruption.

Singer Clients Who Use It

- University of British Columbia, Vancouver, Canada
- City of Calgary, Alberta, Canada
- Cucamonga Valley Water District, Southern California, USA

Did You Know...

Singer Packaged Systems has the expertise to design new or retrofitted valve stations.

Singer Packaged Systems uses only stainless steel fasteners to prevent rust and improve longevity.

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