



For **Severe Service** Control Solutions, Turn to Fisher Technology and Innovation

CANADIAN GAS TRANSMISSION LINE UTILIZES HIGH-CAPACITY VALVES WITH FAST-STROKE ACTUATORS

Fisher and its Calgary-based sales representative office, Spartan Controls, recently supplied large-sized, special valves for a gas transmission pipeline and compressor station in Alberta, Canada. Based on the Fisher easy-e® design, the ANSI Class 600 rated valves had to meet stringent dynamic performance requirements, which included extremely fast stroking speeds, noise abatement capability, and surge control. The customer also requested extensive factory testing and quick delivery.

Fisher Severe Service Group's engineers became involved early in the pipeline project and helped the customer establish engineering specifications and a piping design. The resulting valve order included two high-capacity EWT globe valves, one 12-inch V250 ball valve, and two, large fabricated-body (FBT) globe valves. Several of the valves included special cage designs and fail-open features.

The high flow rates, high pressure drops and temperature extremes associated with compressor, anti-surge applications require smooth, stable valve operation. Compressor surge control demands immediate valve response to signals generated by high-speed surge controllers. Stroking speeds of 750-milliseconds are needed to minimize pressure surges that could potentially damage the compressor.

The pipeline operator specified Fisher Type 490 high-thrust piston actuators equipped with volume boosters and quick-release valves for use on the two large EWTs (with 16-inch inlet and 24-inch outlet). The valves' high capacity allows tight pressure control, whether pipeline conditions are at full operation or at a reduced flow requirement.

Cage-guided, balanced trim within the EWT valves improves operation efficiency, minimizes vibration, and helps to avoid undue piping stress. The Whisper Trim® flow cages in the valves ensure quieter operation and increased operating stability.

Besides meeting demanding technical requirements, Fisher manufacturing personnel faced a greatly shortened build time for these valves, which included extensive factory testing. The valves shipped on time, allowing the pipeline contractor to maintain its construction schedule.

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