

# Fisher™ Type 1808A Reduces Local Distribution Company's Meter Set Cost by 37%

## RESULTS

- Saved \$506 per meter set by replacing the competitor's axial flow relief valve and reducing the vent stack's installation labor
- Reduced the installation and commissioning time by 0.5 hours per meter set
- Increased flexibility for easy/quick in-line service and maintenance
- Reduced re-seat maintenance time



*Fisher Type 1808A Pilot-Operated Relief Valve*

## APPLICATION

**Maximum Flow Rate:** 20,000 SCFH / 536 Nm<sup>3</sup>/h

**Meter Set Delivery Pressure:** 3 psig / 0.21 bar

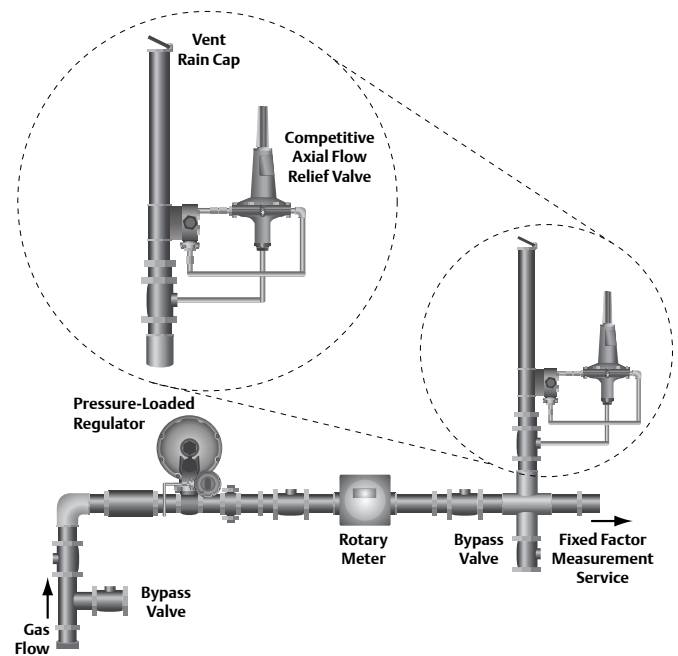
**Maximum Allowable Relief Build-up:** 0.5 psig / 0.03 bar

## CUSTOMER

A Top North American Local Distribution Company (LDC) by customers served in the Northwest

## CHALLENGE

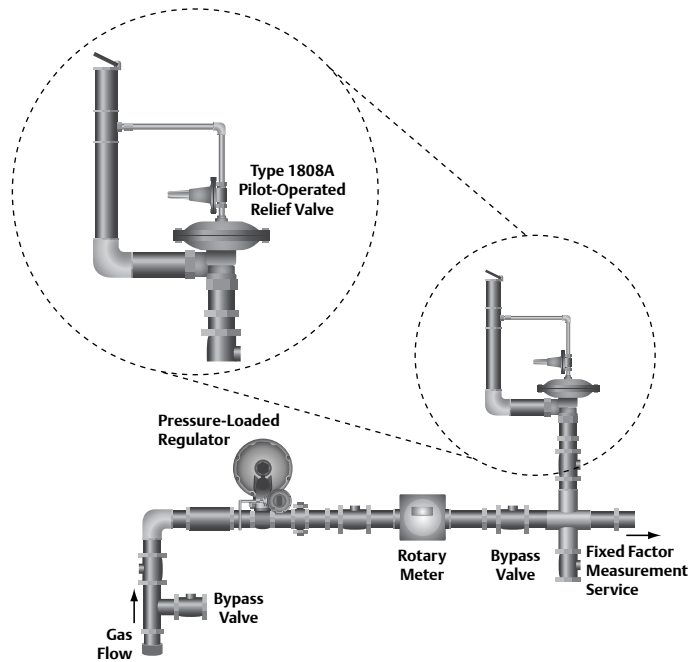
The LDC used a competitor's pilot-operated axial flow relief valve to relieve system overpressure conditions. The pilot-operated relief valve is typically selected for its accuracy and higher flow rates. These relief valves require an external vent stack to provide safe overpressure protection. **The LDC wanted to minimize their meter set costs, reduce installation costs and reduce re-seat relief valve maintenance.**



*Original Meter Design*

**SOLUTION**

The Fisher™ Type 1808A pilot-operated relief valve provides exceptional flow capacities for overpressure relief protection, making it ideal for 11M and 16M meters. The comparative unit costs against the competition lead to \$451 in savings. Installation time was reduced because of the Type 1808A's threaded NPT connections that allow screw-in vent piping versus flanged end connections. Maintenance was simplified because the Type 1808A actuator head and/or pilot assemblies can be removed or replaced while the body remains in the line. The competition's unit has to be taken out of line. The axial flow relief valve often requires maintenance cleaning to re-seat to ensure a tight seal. The Type 1808A is designed to automatically re-seat when it has tripped. Per the economic analysis shown in Table 1, this conversion saved the LDC \$506 per meter set.



*Meter Set Design Using the Fisher Type 1808A Pilot-Operated Relief Valve*

**ECONOMIC ANALYSIS**

**Table 1. Economic Analysis**

	<b>Total Cost Savings per Meter Set</b>
Type 1808A Replacing Competitor's Axial Flow Relief Valve	\$ 451
External Relief and Vent Pipe Installation and Commissioning (One person for 0.5 hour at \$110/hr labor cost)	\$ 55
<b>Cost Savings</b>	<b>\$ 506</b>

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