



Experience Industrial Innovation



PROCESS CONTROL

Ensure environmental and regulatory compliance for gas flaring and venting with world class metering and support services.

Flare Gas Measurement

Automation | Valves | Measurement | Process Control.

Western Canadian Flaring Regulations



OVERVIEW

Gas flaring and venting is used in the oil and gas industry to burn off unwanted greenhouse gases or byproducts during plant operations. With strict flaring and venting regulations in western Canada we at Spartan Controls are here to continually support each of the provincial directives and work to help our customers reduce any flaring and venting.

PROVINCIAL FLARING REGULATIONS



Alberta

- Alberta Energy Regulator – Directive 060: Upstream Petroleum Industry Flaring, Incinerating, and Venting
- Alberta Energy Regulator – Directive 17: Measurement Requirements for Oil and Gas Operations

British Columbia

- BC Oil & Gas Commission – Flaring And Venting Reduction Guideline
- BC Oil & Gas Commission - BC Measurement Guideline

Saskatchewan

- Directive PNG036 – Venting and Flaring Requirements
- Directive PNG017 - Measurement Requirements for Oil and Gas Operations

All the above stated directive and guidelines provide regulatory requirements and guidance for flaring, incinerating and venting as well as procedural information for flare approval requests, dispersion modelling and the measurement and reporting of flared, incinerated and vented gas.

To summarize, compliance across all three provinces requires the following meter specifications:

- +/- 5% single point measurement uncertainty
- Metering data logging capabilities
- +/- 20% monthly volume uncertainty

Flare Metering Solutions



ADDRESSING THE CUSTOMER CHALLENGE

Accurate flare metering can be a very challenging measurement. Each flare application has its own unique and changing characteristics such as temperature, pressure, flow rate and gas composition. Let Spartan Controls solve this challenge with one of our tailored metering solutions and support for flaring/venting.

SPARTAN CONTROLS FLARE GAS METERING PORTFOLIO

Fluenta FGM 160 Flare Gas Meters

Fluenta flare gas meters are sold as a complete top tier measurement solution. A typical Fluenta flare gas meter package comes with a field computer, transducers, inline spool piece with isolating ball valves and pressure / temperature assemblies.

Quick Specs:

- Accuracy: Standard +/- 2.5% to 5% , with an option to get to +/-0.75% to 2%
- Line Sizes: 6" to 72"
- Turndown Ratio: 4000:1
- Low Pressure Operation: 0 PSI
- Accuracy without pressure drop or any obstructions in the pipe
- Data logging capabilities available

Fox Thermal Mass Flow Meters

Fox Thermal mass flow meters are an economical solution that offers accurate measurement over a very wide range of flaring and venting applications. The Fox Thermal meters are sold as either an insertion or inline spool designs to accommodate the most challenging piping layouts.

Quick Specs:

- Accuracy: Standard +/- 1%
- Line Sizes: Insertion meters available from 1.5" to 70" and inline meters available from ¼" to 6"
- Turndown Ratio: 100:1 is typical, but can be as high as 1000:1 depending on sizing
- Low Pressure Operation: 0 PSI
- Accuracy with minimal pressure drop
- Data logging capabilities available





**Allow Spartan Controls to be
your flare gas metering partner
for your next project.**

**Our experienced team
can assist you meet your
regulatory needs.**

Call us or request a quote online 24/7

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