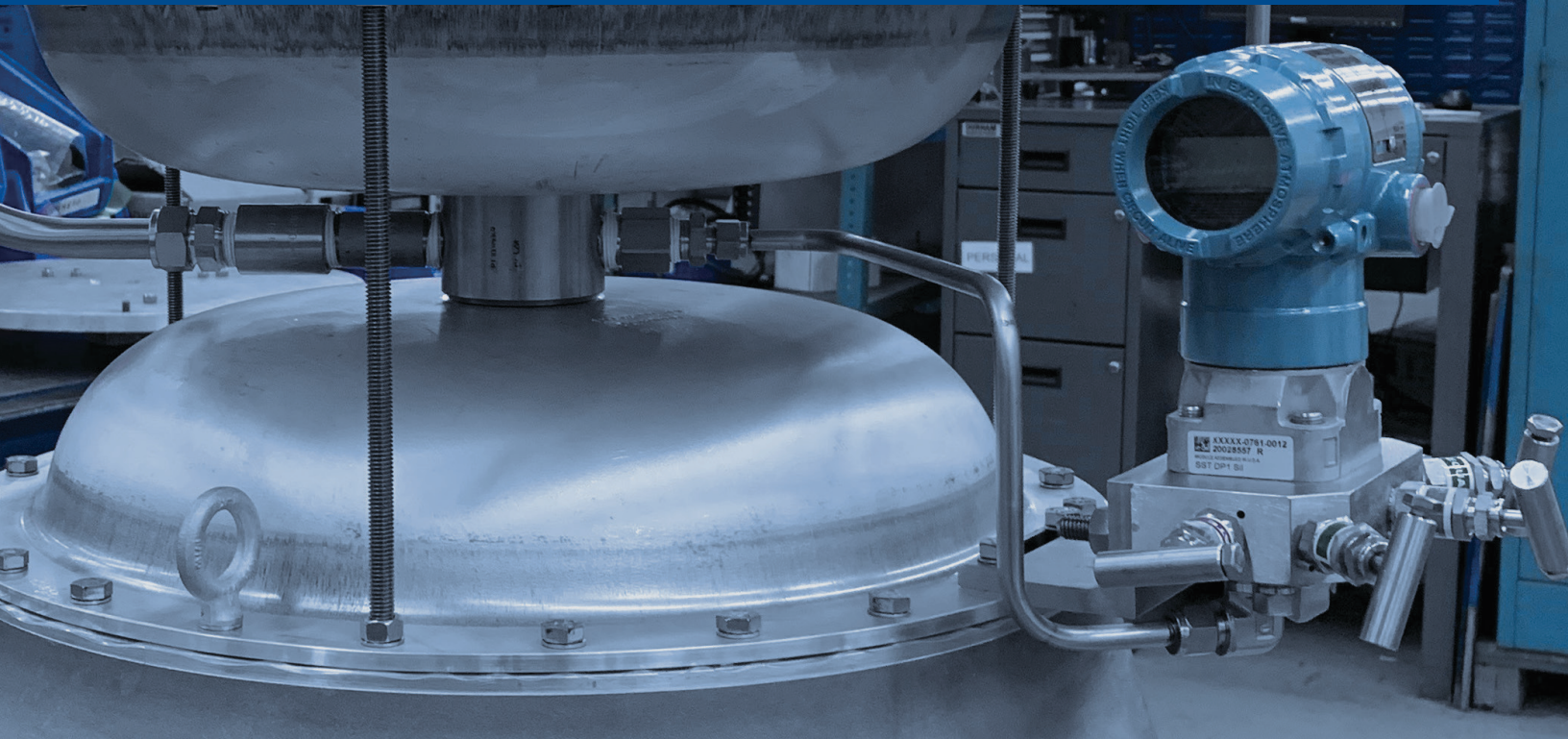


# Low pressure pilot monitoring: gain insight to improve safety, operational efficiency and reduce emissions



## ANDERSON GREENWOOD™ Monitoring solutions for low pressure pilot-operated relief valves to improve operational efficiency and reduce emissions

### Introduction

The opening and closing of Anderson Greenwood™ low pressure pilot-operated relief valves can be monitored by measuring the differential pressure between the main valve dome and valve inlet. This technology can provide real-time information, enabling you to proactively develop corrective actions, optimize maintenance schedules and improve asset management while reducing emissions. Immediate notification of relief events helps keep workers safe and ensures regulatory compliance with environmental regulations.



### Benefits of Monitoring



#### Regulatory Compliance

- Immediate notification of events to reduce severity of releases
- Time-stamped alerts for root cause analysis, simplifying compliance



#### Safety

- Monitor relief events without manual rounds, improving employee safety
- Real-time logging enables faster and precise corrective actions



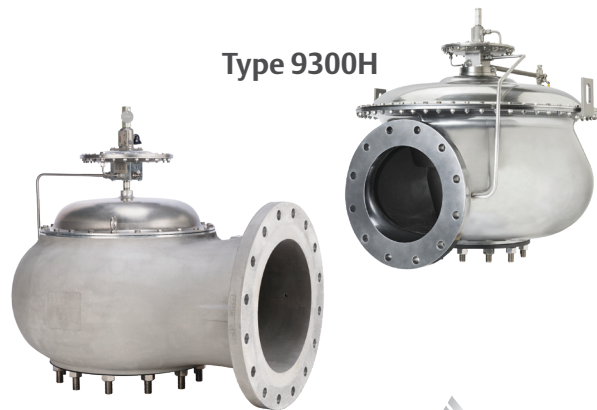
#### Reliability

- Real-time analytics to increase availability optimizing overhaul scheduling



#### Cost Reduction

- Troubleshoot correlating relief events against process data
- Adjust operating pressures to improve plant performance



Type 9300H

Type 9300



# Monitoring applications for low pressure pilot-operated valves

## Monitoring product options using differential pressure



### Rosemount™ 2051 Differential Pressure Flow Transmitter

- Differential pressure measurements
- Wired or wireless
- Provided with 305 Integral Manifold
- Monitoring use cases:
  - Pressure
  - Vacuum

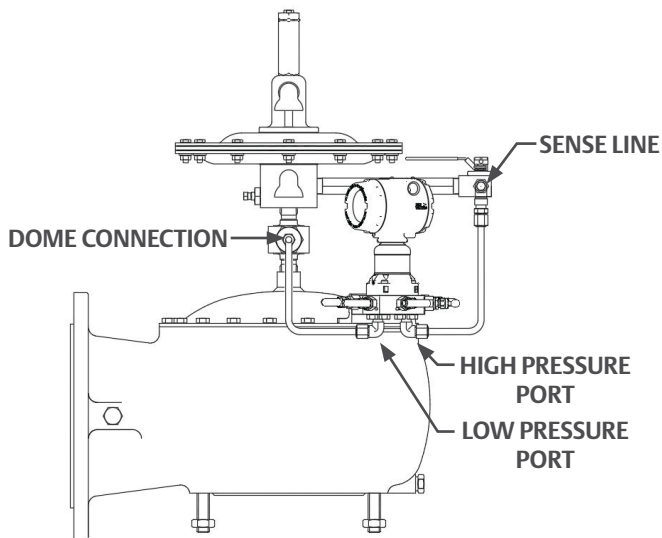


### Rosemount™ 3051 Differential Pressure Flow Transmitter

- Differential and static pressure measurements with certain configurations
- Wired or wireless
- Provided with 305 Integral Manifold
- Monitoring use cases:
  - Pressure
  - Vacuum
  - Pressure and vacuum

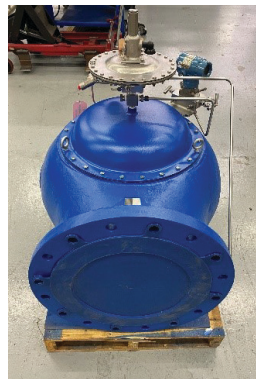
## Proven Low Pressure Pilot Solutions

### Monitoring with a Low Pressure Pilot



Low pressure pilot valves are designed for protecting low pressure storage vessels, tanks, low pressure piping systems, and more. Combining Low Pressure Pilot valves with monitoring technology provides special insight and real-time visibility into valve performance and events. These case studies show how monitoring solved some common over-pressure protection challenges and reduced emissions.

### Upstream Producer



- **Existing Technology:** Tank Vents
- **Challenge:** Higher operating pressure required
- **Solution:** Low Pressure Pilot valves fitted with Pressure Relief Valve monitoring technology met the customer's carbon emissions and flare intensity goals

[Read the case study ▶](#)

### Natural Gas Distribution



- **Existing Technology:** Pressure Relief Valves
- **Challenge:** Legislation mandating a second form of overpressure protection
- **Solution:** Low Pressure Pilot valves fitted with Pressure Relief Valve monitoring technology helped reduce emissions due to natural gas leakage, and provide real-time overpressure alerts

[Read the case study ▶](#)

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