

**Increase Gas Production,
Reduce Maintenance and
Decrease Environmental Risks**



Complete Turn-Key Two Phase Separator System
Optimized to Increase Gas Production



Two Phase Separator Optimization

Regulators or backpressure control valves keep separator pressure in the best range for optimal production and separation efficiency. At the same time, pressure relief valves provide protection by venting excess pressure, defusing dangerous conditions. With Emerson's pressure transmitters, regulators, control valves and monitoring devices, you'll have the ability to optimize production while improving safety and environmental regulatory compliance.

Control Over Pressured Gas to Flare

Feature

Backpressure Regulator

Purpose

Protects the separator from overpressure and exhaust excess gas to the flare.

Benefit

Accurate back pressure control with minimized pressure buildup controls gas to the flare and reduces atmospheric emissions from safety relief valves.

Two Phase Separator

Feature

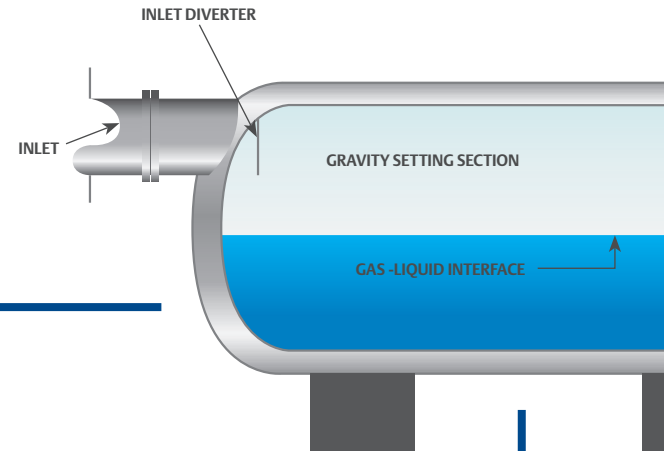
Separator Vessel and Internals

Purpose

Separate the well fluid into gas and liquid.

Benefit

Cost-effective design, ensures separation efficiency, reduces gas carry over in the liquid and increases gas production.



System Integration

Feature

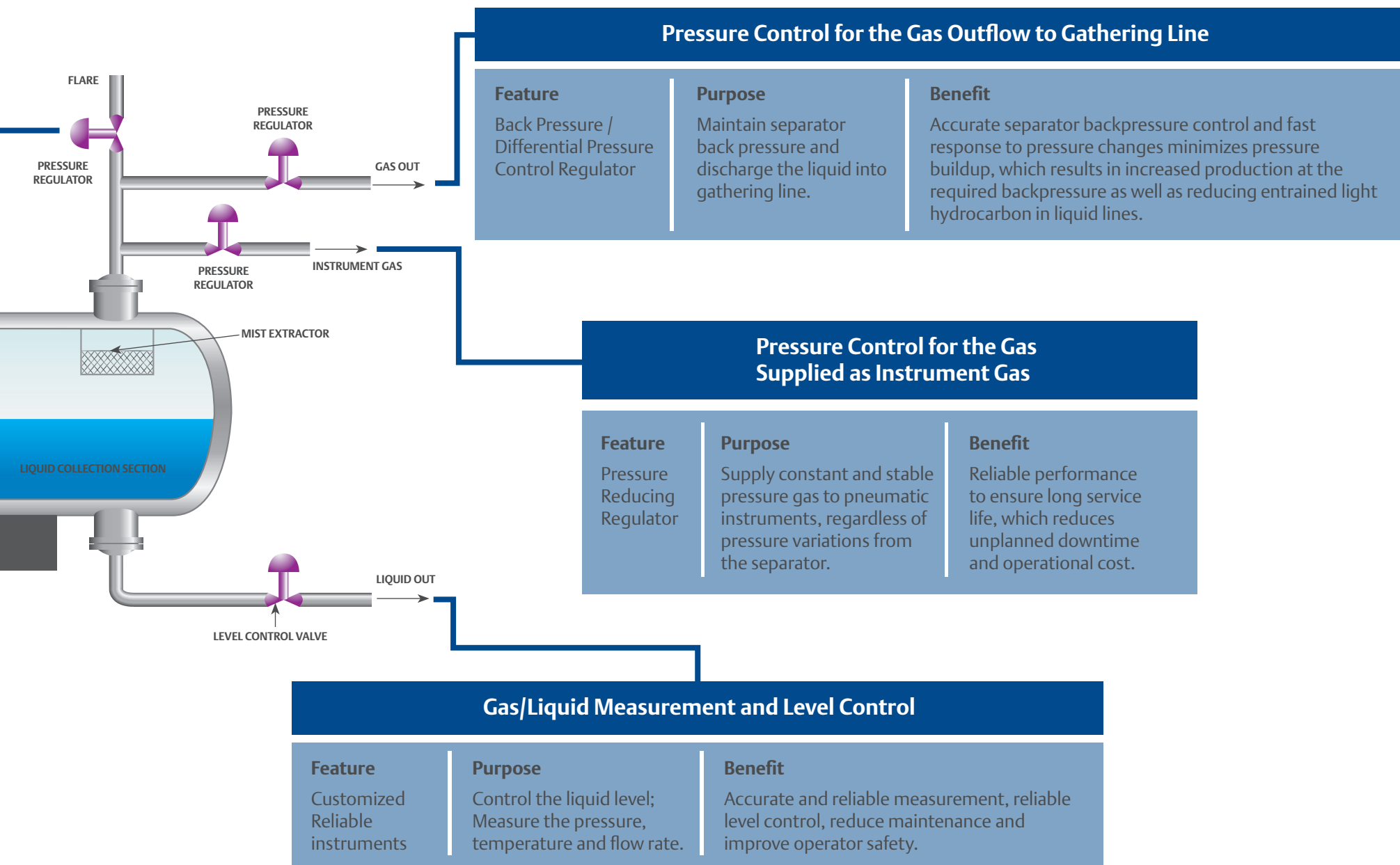
System Integration

Purpose

Process engineering, detailed engineering, procurement and supply the complete system.

Benefit

Turn-key solutions ensure optimum performance. Emerson™ components are designed to work in sync with each other, ensuring smooth operation and reducing maintenance work and cost.



Emerson provides customized solutions utilizing proven technologies for oil and gas production.

It's essential for you to meet production targets. But to maximize gas production and yield, you need reliable and efficient separator operations. Leveraging Emerson's reliable control and measurement products, you can increase production, reduce maintenance across your wellsite and mitigate safety and environmental concerns.



Increase gas production, spend less time on maintenance, improve operator safety and minimize emissions

What if you could...

Realize in-the-field improvements...

With our solutions...

Increase gas production

- Ensure separation efficiency
- Reduce gas carry over by liquid
- Minimize back pressure buildup
- Reduce gas emissions from safety relief valve

- ✓ Proven gas/liquid separation technology
- ✓ Accurate back pressure / differential pressure control on gas outflow line
- ✓ Accurate back pressure control to flare

Spend less time on field maintenance

- Ensure long service life
- Reduce unplanned shutdowns
- Improve site service effectiveness
- Ensure system compatibility

- ✓ Field-proven and reliable technologies for measurement, pressure and level control
- ✓ Optimized system integration

Improve operator safety and minimize emissions

- Less time spent traveling to remote locations
- Reduce gas emissions from safety relief valve or flare

- ✓ Accurate back pressure / differential pressure control on gas outflow line
- ✓ Field-proven and reliable technologies with less maintenance
- ✓ Accurate back pressure control to flare

Proven separator solutions that help increase gas production and reduce emissions and maintenance

Separator Vessel and Internals



- Optimized and fit-for-purpose equipment design
- Efficient separation
- Cost-effective
- Helps increase gas production

Backpressure/Differential Pressure Control Regulator



Type 63EG

Type 1098-63EGR

Type EZR



Type MR108



Type VS-FL

- Accurate control
- High capacity
- Self-contained
- No bleed to atmosphere
- Robust design
- Easy maintenance

Pressure Reducing Regulator



627 Series

Type 1301F

Type MR95



Type 67C



Type 67D

- Fast response
- Compact design
- Self-contained
- No bleed to atmosphere
- Robust design
- Easy maintenance



Gas/Liquid Measurement and Level Control



L2sj

D3

D4

Pneumatic Control

- Time-tested for reliability
- Snap-acting or throttling control
- Quick performance and durability



L2e



D3/D4

Electric Control

- Requires no air or natural gas to operate
- No venting of process gas to atmosphere and no fugitive emissions
- Low power consumption
- Visibility from a field control system



F Series



8800

Flow Measurement

- Multiple models available for accurate gas and liquid flow measurement
- Reliable performance and long service life



Rosemount 3051S Pressure Transmitter



Rosemount 648 with Sensor and Thermowell

Pressure and Temperature Measurement

- Robust design for unmatched reliability and accurate pressure information
- Reliable temperature monitoring
- 4-20 HART®, WirelessHART® and Modbus communication protocols

Increase Gas Production, Reduce Maintenance and Decrease Environmental Risks



A coal seam gas operator **increased gas production and reduced maintenance and emission** by using our pressure control solutions.

A shale gas operator **increased gas production** by using our pressure control solutions.

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