

**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

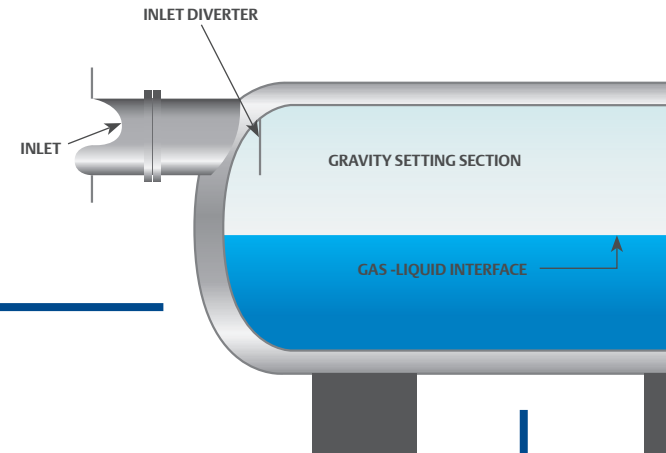
Regulators or backpressure control valves keep separator pressure in the best range for optimal production and separation efficiency. At the same time, pressure relief valves provide protection by venting excess pressure, defusing dangerous conditions. With Emerson's pressure transmitters, regulators, 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	Purpose	Benefit
Backpressure Regulator	Protects the separator from overpressure and exhaust excess gas to the flare.	Accurate back pressure control with minimized pressure buildup controls gas to the flare and reduces atmospheric emissions from safety relief valves.

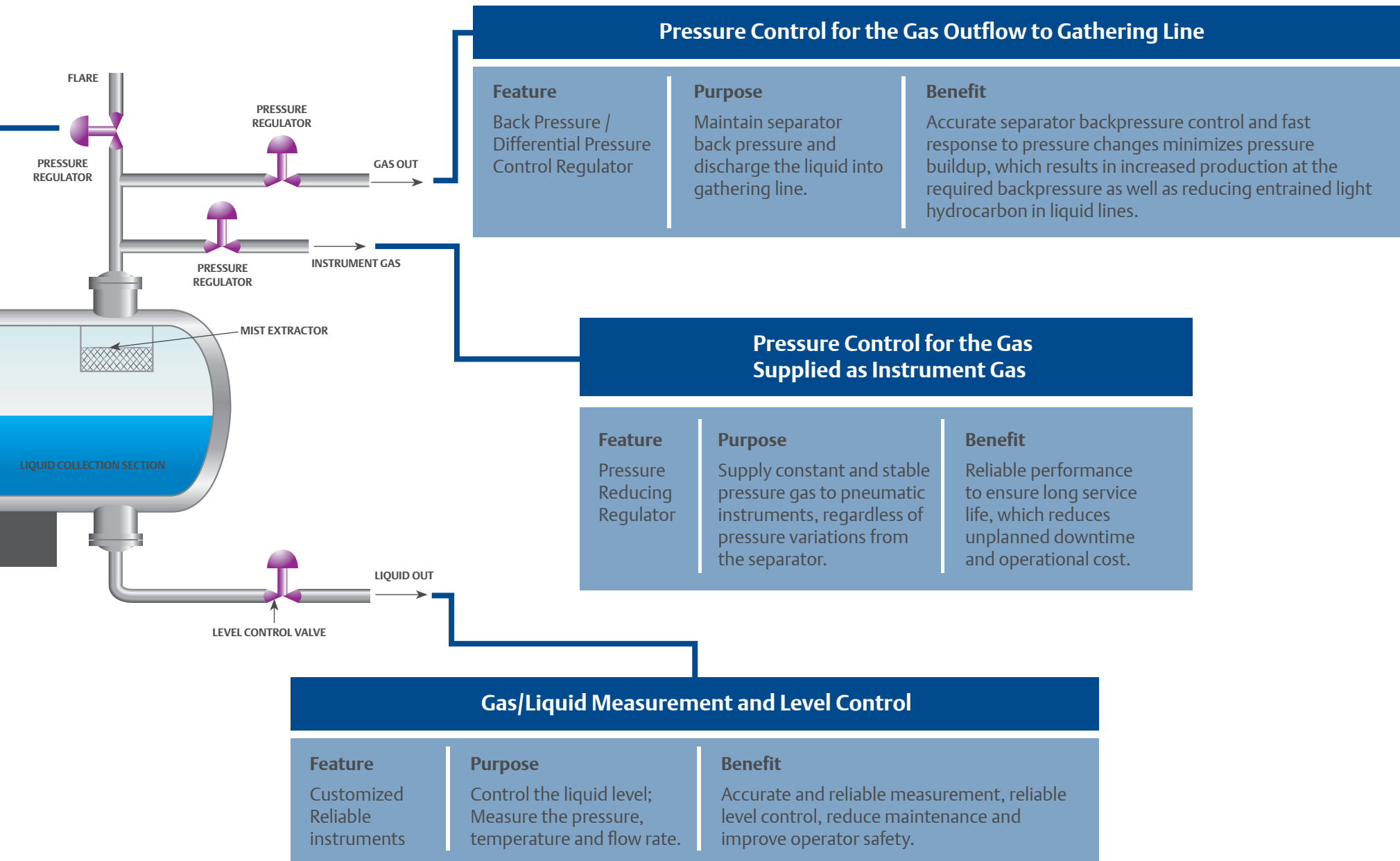
## Two Phase Separator

Feature	Purpose	Benefit
Separator Vessel and Internals	Separate the well fluid into gas and liquid.	Cost-effective design, ensures separation efficiency, reduces gas carry over in the liquid and increases gas production.



## System Integration

Feature	Purpose	Benefit
System Integration	Process engineering, detailed engineering, procurement and supply the complete system.	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...**

<p><b>Increase gas production</b></p>	<ul style="list-style-type: none"> <li>• Ensure separation efficiency</li> <li>• Reduce gas carry over by liquid</li> <li>• Minimize back pressure buildup</li> <li>• Reduce gas emissions from safety relief valve</li> </ul>	<ul style="list-style-type: none"> <li>✓ Proven gas/liquid separation technology</li> <li>✓ Accurate back pressure / differential pressure control on gas outflow line</li> <li>✓ Accurate back pressure control to flare</li> </ul>
<p><b>Spend less time on field maintenance</b></p>	<ul style="list-style-type: none"> <li>• Ensure long service life</li> <li>• Reduce unplanned shutdowns</li> <li>• Improve site service effectiveness</li> <li>• Ensure system compatibility</li> </ul>	<ul style="list-style-type: none"> <li>✓ Field-proven and reliable technologies for measurement, pressure and level control</li> <li>✓ Optimized system integration</li> </ul>
<p><b>Improve operator safety and minimize emissions</b></p>	<ul style="list-style-type: none"> <li>• Less time spent traveling to remote locations</li> <li>• Reduce gas emissions from safety relief valve or flare</li> </ul>	<ul style="list-style-type: none"> <li>✓ Accurate back pressure / differential pressure control on gas outflow line</li> <li>✓ Field-proven and reliable technologies with less maintenance</li> <li>✓ Accurate back pressure control to flare</li> </ul>

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

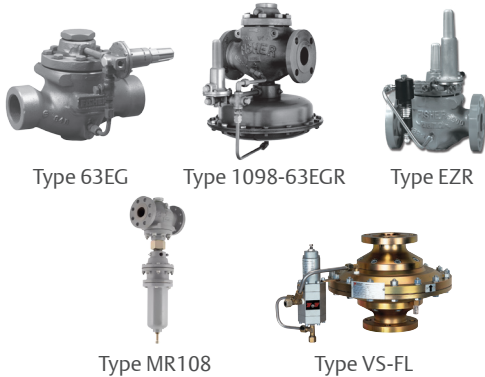
## Separator Vessel and Internals



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

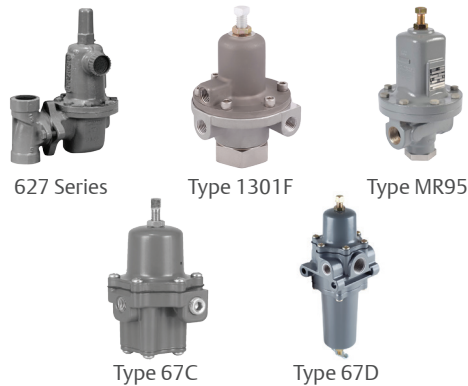


## Backpressure/Differential Pressure Control Regulator



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

## Pressure Reducing Regulator



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

## Gas/Liquid Measurement and Level Control



### Pneumatic Control

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

### 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

### Flow Measurement

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

### 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.

For further information visit [www.emerson.com](http://www.emerson.com).

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