



Keeping the World Flowing  
for Future Generations

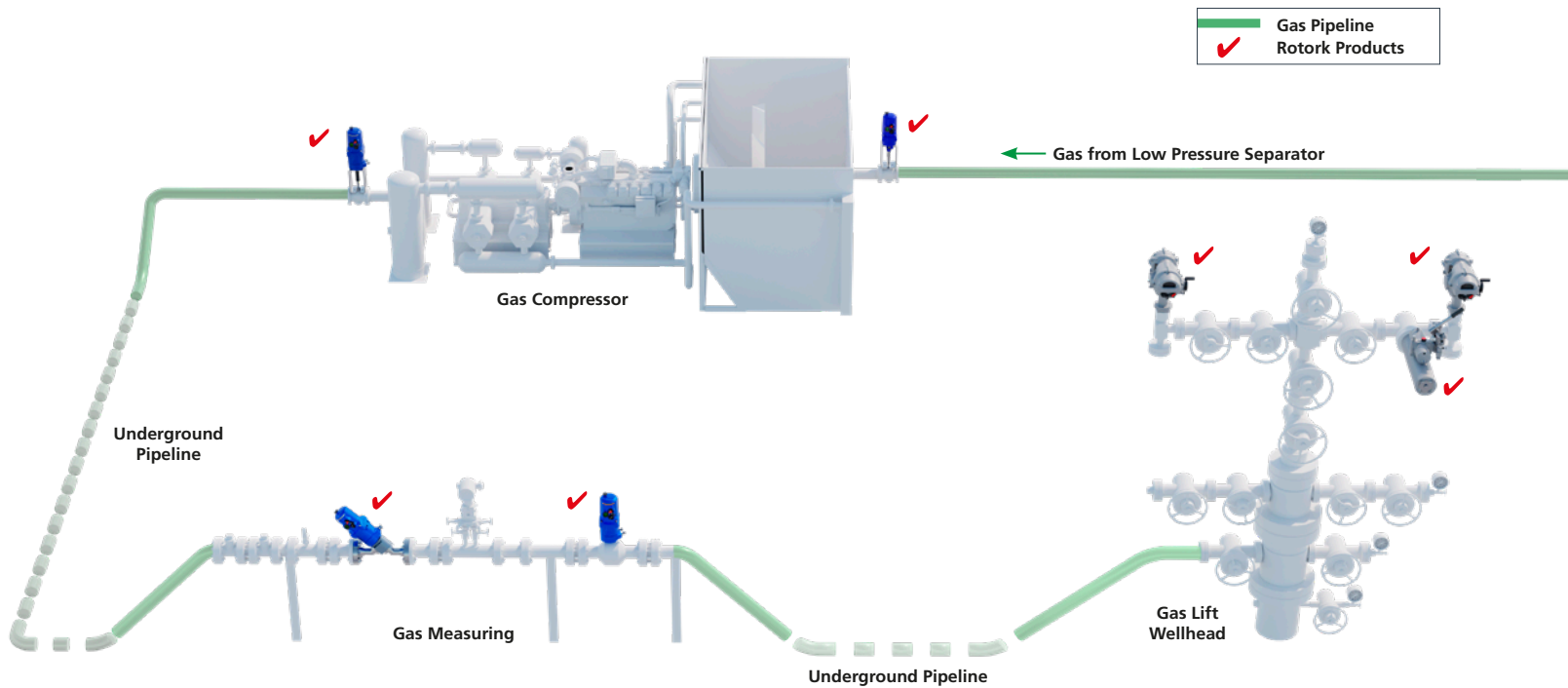
# Gas lift systems

Rotork solutions for upstream oil & gas  
methane emissions reduction

Gas lift is a method of artificial lift that uses high-pressure gas to lift the well fluids. Gas injected into the tubing reduces the density of the fluids in the tubing, and the bubbles have a “scrubbing” action on the liquids, lowering the flowing bottomhole pressure.

Gas is injected continuously into the production conduit, mixing with the produced well fluid, decreasing the density and the flowing pressure gradient of the mixture from the point of gas injection to the surface. A reliable, adequate supply of good quality high-pressure lift gas is mandatory.

The control valve requires continuous modulation to adjust the flow and pressure of injected gas. The Rotork CMA actuator is designed for 100% duty cycle and can operate with precision, even for continuous modulating application.





CMR rotary electric actuator



CMQ quarter-turn electric actuator with local controls



CML linear electric actuator



CML linear actuator with local controls



## CMA Range

Rotork's CMA process control actuator range includes linear, quarter-turn and multi-turn electric actuation solutions for a wide variety of dump valves and back-pressure control valves that are common across upstream production processing applications.



### Advanced control

- Rotork's CMA process control electric actuator provides accurate and repeatable position control with up to 0.2% accuracy, and S9/Class D continuous modulation capability, which makes this product range ideal for electric actuation of back-pressure lines in gas compressors and throttling valves on gas lift metering skids, to ensure the required gas injection flow rates and pressures



### High reliability

- Effectiveness of gas lift relies on ensuring gas compression uptime which requires high-quality, reliable and dependable valve actuation
- The CMA range is designed to deliver the highest levels of reliability. Like the CVA and IQ product families, the CMA is built on self-protection technology which guards the unit's integrity and operating performance by continuously monitoring temperature, torque and voltage, thus ensuring longer product life and increased process uptime



### Low power consumption

- Gas lift compression and metering skids are located adjacent to the well pad, so low-powered electric actuators are ideally suited to efficiently draw from the well pad's existing power infrastructure with minimal additional requirements and without having to deploy air compressors for instrument air driven pneumatic actuators
- The CMA design is highly energy efficient and perfectly suited to oil and gas field process control applications



### Easy field serviceability

- Natural gas compressors require regular maintenance, but these visits should not be extended by lengthy and complicated intervention and re-calibration of its actuators
- The CMA provides comprehensive configurations of communication protocol options and practical in-field user interfaces, offering field technicians a user-friendly interaction for easy commissioning, maintenance, recalibration and feedback, including optional external control panels and user-friendly, built-in HMI for quick and simple setup

A full listing of the Rotork sales and service network is available on our website.

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Electric Actuators and Control Systems  
Fluid Power Actuators and Control Systems  
Gearboxes and Gear Operators  
Precision Control and Indication  
Projects, Services and Retrofit