



Keeping the World Flowing
for Future Generations

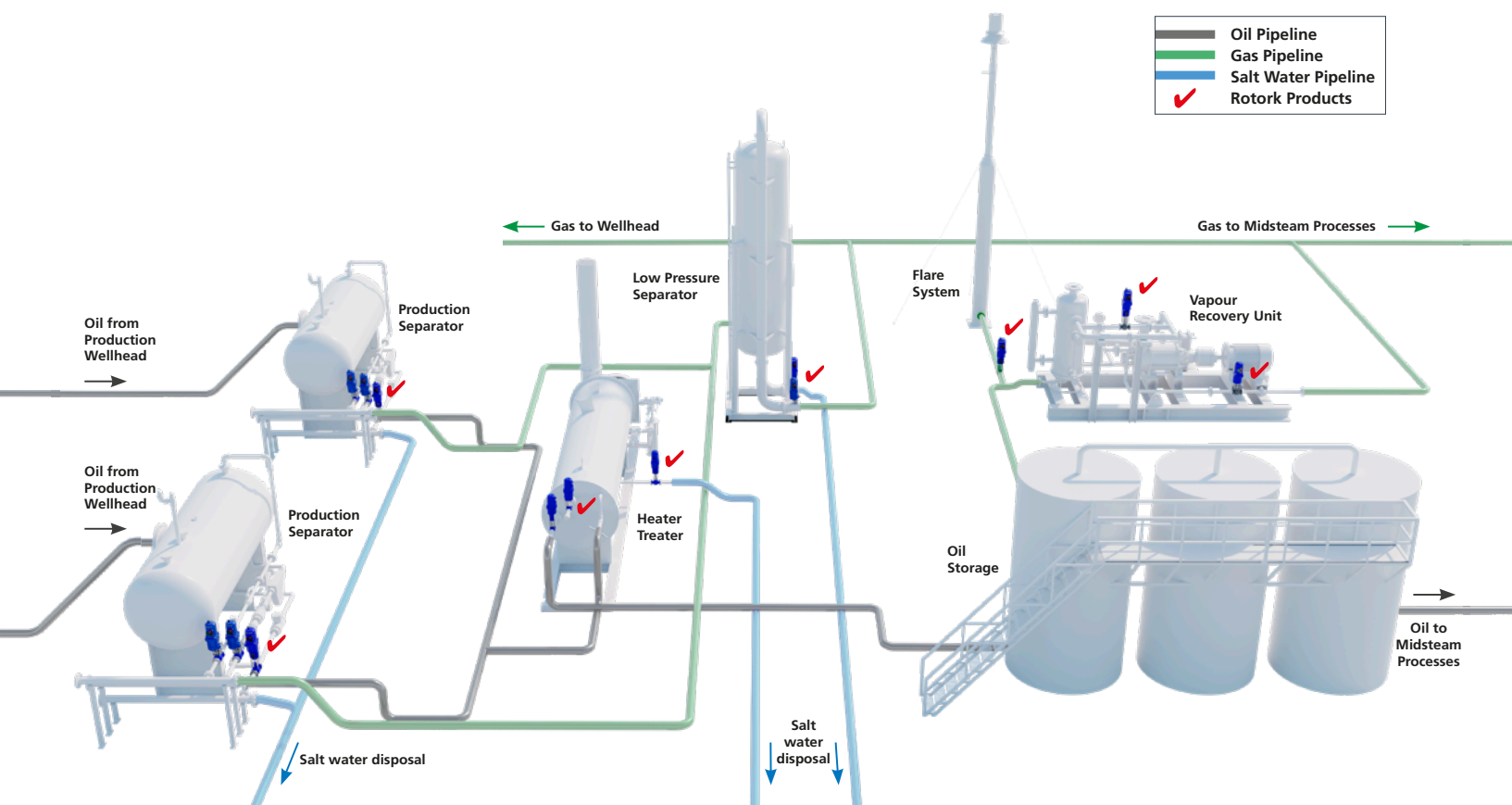
Production processing

Rotork solutions for upstream oil & gas methane emissions reduction

Upstream production process control valves have traditionally been actuated by pneumatic diaphragm actuators. These mostly use well-stream process gas as their power medium and release methane every time the valve is stroked.

To reduce methane emissions, many operators have replaced well-stream process gas with compressed air via deployment of air compressor units at production sites.

Rotork offers an advanced, energy efficient solution with its electric control valve actuator portfolio. This option not only aids in achieving net zero emissions with a solar powered 24 VDC supply option, but also helps reduce the overall life cycle costs, compared to the instrument air actuator alternative.





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

- CMA is designed for high frequency and high-speed operations such as actuation of liquid dump valves used across upstream production processing equipment. CMA also provides fine control for achieving optimal operation of back pressure valves on gas lines
- Built with a brushless DC motor, enabling accurate and repeatable position control with up to 0.2% accuracy and S9/Class D continuous modulation duty capability
- Optional super capacitor configurations are available for reliable fail-safe functionality



High reliability

- Rotork process control electric actuators are designed to deliver the highest levels of reliability. CMA is built on technology that allows self-protection against abrupt changes in external conditions, by continuously monitoring temperature, torque and voltage
- Rotork's electric process control solutions are highly dependable and eliminate in-field interventions and repairs that are common with pneumatic diaphragm actuator failures associated with debris or condensates in instrument air, or failures from rotary components of air compressors



Low power consumption

- Optimizing wellsite solar power and energy storage infrastructure, or minimizing consumption when grid power is available, is a key differentiating factor of Rotork's electric CMA actuator against pneumatic actuators running on instrument air from an on-site air compressor
- The low power 24 VDC configuration of the CMA delivers an advanced actuation solution for upstream production processing with minimal power consumption



Easy field serviceability

- The lifecycle of upstream production processing infrastructure will see big shifts in operating intensity and valve maintenance. When this happens, easy in-field actuator serviceability and configuration is critical to ensure seamless interventions to support sustained process uptime
- 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
- The CMA has a built-in Human Machine Interface (HMI) allowing for quick and simple setup with optional integral local controls and positional display

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

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