



Keeping the World Flowing
for Future Generations

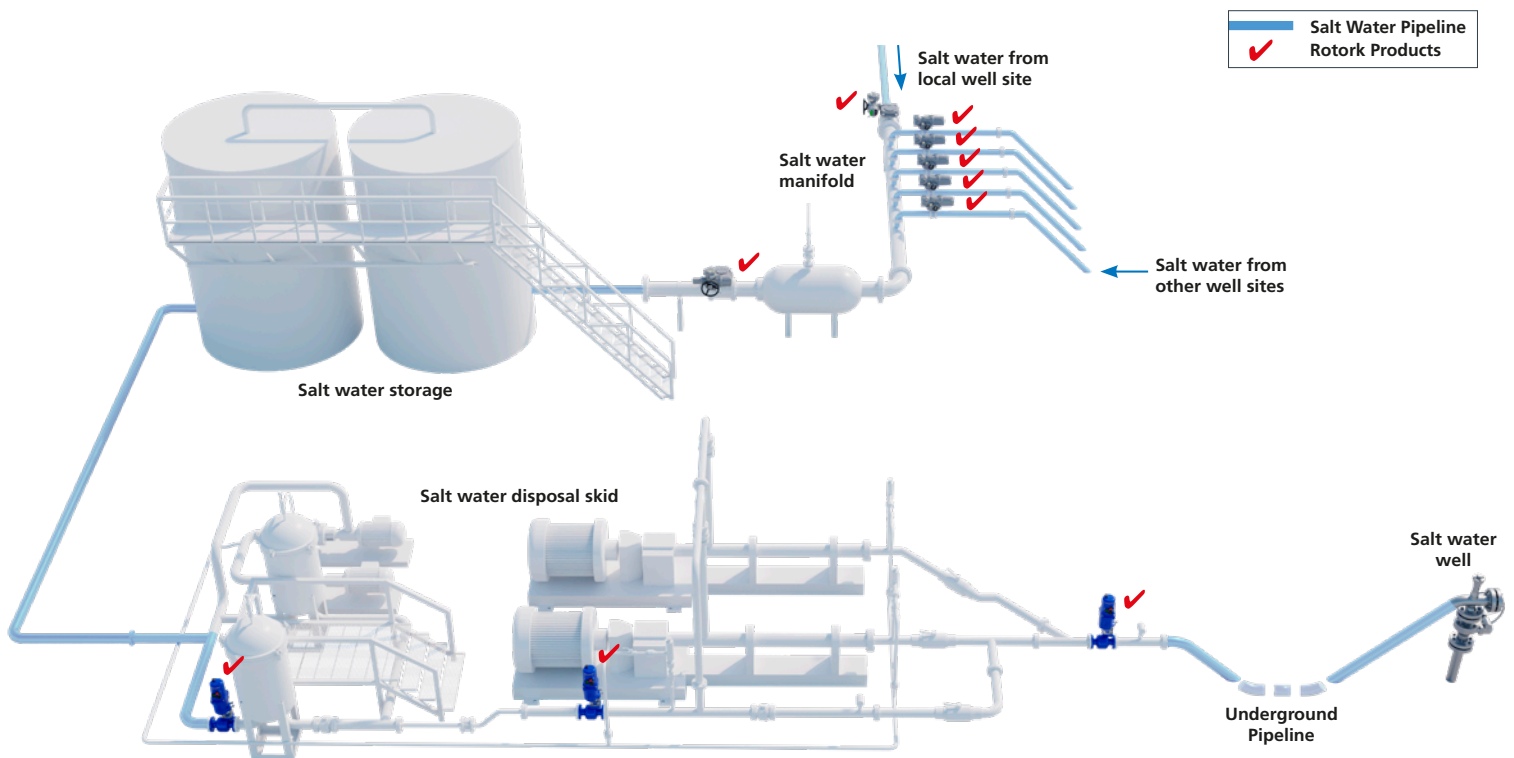
Salt water disposal systems

Rotork solutions for upstream oil & gas automation and emissions reduction

Produced water from an oil and gas well can be anywhere between 4-5 times the volume of produced gas or oil from that same well. This makes produced water the number 1 produced liquid in the oil and gas industry.

Produced water is either trucked or transported via extensive gathering lines to water recycling tanks or saltwater disposal wells.

Across the entire produced water gathering, transportation and disposal infrastructure are a high number of actuated valves that ensure safe, reliable and efficient flow control of the produced water.





CMQ

CMQ (quarter-turn) electric process control actuators offer the ideal range of solutions for water tank back pressure valves, as well as control valves for saltwater injection pumps.

Compatible with a wide variety of fieldbus, hardwired and analogue site systems. Optional configuration with a super capacitor Reserve Power Pack (RPP) for fail-to-position functionality.



IQT3M Pro

The IQT3M Pro 500 (multi-turn) is designed for precision control of the wide variety of diverter valves and v-port ball valves that control the high volume of water managed through gathering lines.

Non-intrusive actuator with setting and data capture using the supplied Bluetooth® setting tool or the Rotork App. Optional battery back-up version for fail-to-position requirements.



Advanced control

- Most control valves across the produced water infrastructure system need a high degree of controllability to prevent water hammering, while back-pressure control valves need to operate with the necessary high-level frequency and modulation duty to ensure optimal performance of water injection pumps
- The CMQ and IQT3M Pro product lines offer adjustable speed, including slow mode for accurate positioning, high accuracy and high-resolution micro-step movement and adjustable torque/thrust protection

High reliability

- With 4-5 times more barrels of produced water for ever barrel of produced oil, millions of gallons of water flow through gathering lines and saltwater disposal wells
- Uptime of produced water gathering and disposal infrastructure is critical for ensuring that oil and gas wells can produce continuously without interruption
- Rotork CMQ and IQT3M Pro deliver robust and reliable electric valve actuation suitable for the harsh and challenging environments of oil and gas fields

Low power consumption

- Produced water gathering lines cross many miles of remote environments and rely on solar power for electrification requirements, consequently the energy efficiency of electric actuators is a welcome benefit
- Energy efficient CMQ and IQT3M Pro 24 VDC electric actuators optimize solar power infrastructures or minimize power consumption from the power grid

Easy field serviceability

- Produced water gathering infrastructure is regularly intervened to accommodate for additional produced water originating from new well sites, consequently operators seek a user-friendly electric actuator that facilitates regular recalibrations and interventions
- IQT3M Pro and CMQ provide 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

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

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