



Keeping the World Flowing
for Future Generations

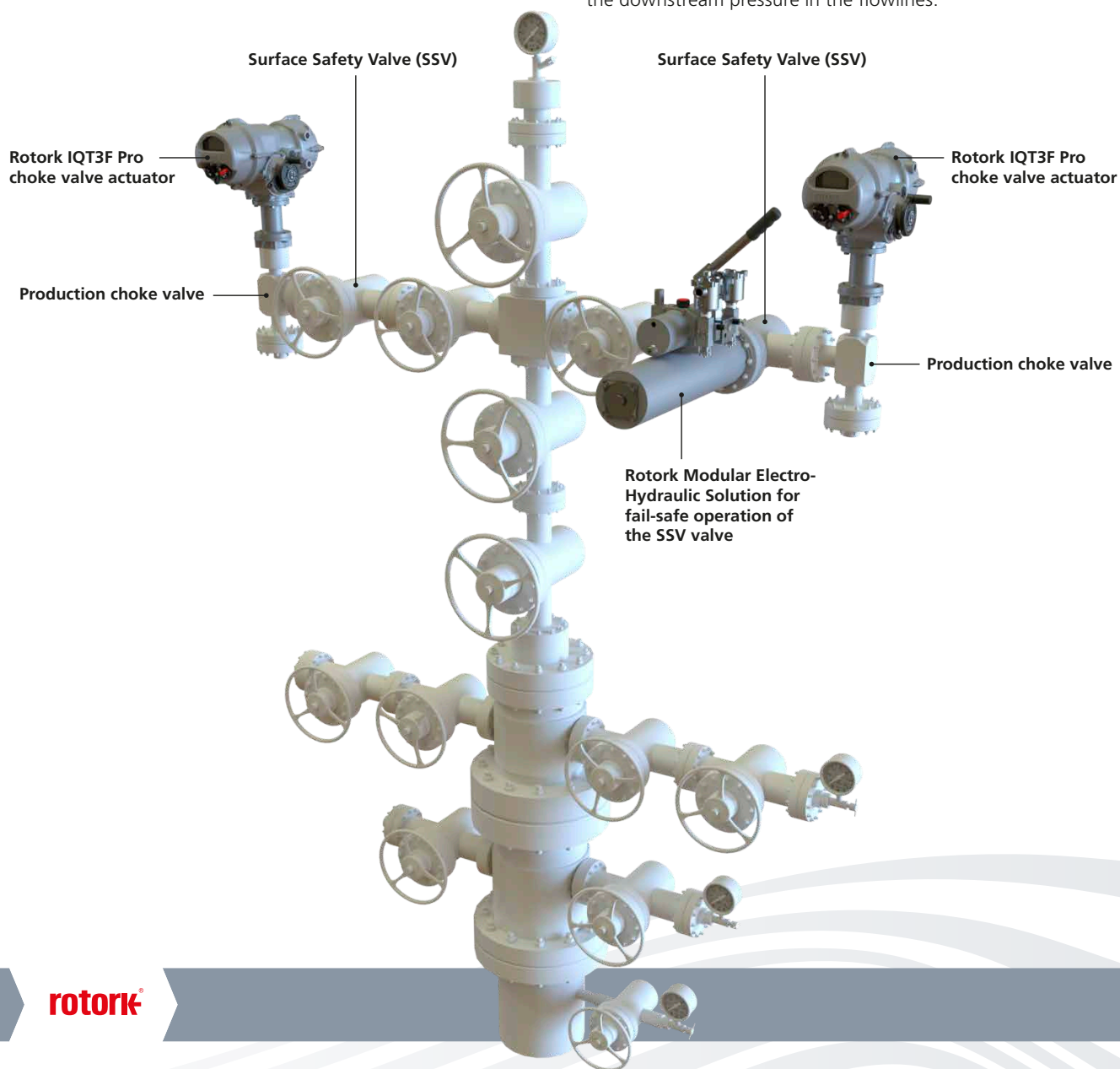
Production trees

Rotork solutions for upstream oil & gas methane emissions reduction

An oil and gas production tree (or Christmas tree) is an assembly of valves, spools and fittings that provide flow control of an oil or gas well.

The Surface Safety Valve (SSV) is a fail-safe / shutdown valve installed at the upper wellbore for emergency shutdown to protect the production tunings and wellhead in case of overpressure.

The production choke valve is a type of control valve used to control the flow of well fluids being produced and to regulate the downstream pressure in the flowlines.



Production choke valve actuation



IQT3F Pro

Rotork's IQT3F Pro electric actuator is specifically designed to deliver advanced production choke valve actuation with non-intrusive operation, easy setup, proportional control, high accuracy, and low power 24 VDC power configuration.

The IQT3F Pro is an intelligent, lightweight, compact and resilient actuator designed for long-life applications in the field.



Advanced control

The IQT3F Pro provides separate speeds for the opening and closing of the choke valve. Slow and accurately controlled opening to protect the wellhead, production facilities and the reservoir's fracked formation. Fast throttling down to minimize flaring intensity and avoid costly restarts from emergency shutdowns due to high level pressure events.



High reliability

Built on the Rotork drive train, proven for over 30 years, the IQT3F Pro features a double-sealed, non-intrusive enclosure to protect internal components from environmental conditions even during installation and commissioning. Designed to protect the actuator and valve: a jammed choke or power surge will not damage or burn out an IQT3F Pro actuator.



Low power consumption

24 VDC configuration of the IQT3F Pro provides a low power alternative. This is ideal for well sites operating on solar power or for operators looking to control and reduce grid power costs.



Easy field serviceability

The IQT3F Pro delivers remote real-time monitoring and control of choke valves without needing to drive hours to the wellsite for manual adjustment. For in-field operations, the IQT3F Pro provides a user-friendly experience with automatic limit setting, large feature-rich display, and control and commissioning via Rotork App, Bluetooth® setting tool handset or local control knobs.

Surface safety valve/emergency shutdown



Modular Electro-Hydraulic Solutions

Combining the simplicity of electrical operation with the high torque/thrust and fail-safe fast-action capabilities of hydraulic high-pressure control for rotary and linear valve actuation.

Typically used in applications where external pneumatic or hydraulic power sources are unavailable, these fully modular and compact solutions provide the customer with the right architecture to meet any specific need.



Advanced control

Modular Electro-Hydraulic Solutions provides true electric fail-safe designs that are always spec-compliant and certified. Thanks to the functional flexibility of the modular design, the widest range of solutions, from simple on/off operation to multiple voting SIL-rated Emergency Shut Down (ESD) and Partial Stroke Testing (PST) can be easily configured.



High reliability

Contemporary design, non-intrusive, digital interface and manufactured and supported by Rotork fluid systems center-of-excellence. Designed for long-term operation with reduced service requirements in tough and remote environments.



Low power consumption

True mechanical fail-safe solution, with low power consumption, ideal for solar power source applications.



Easy field serviceability

Commissioning without opening the control box – ideal for dusty/wet areas. The self-contained design ensures fewer pipes/fittings on the actuator, reducing oil leak points and possibility of damage in transit.

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

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