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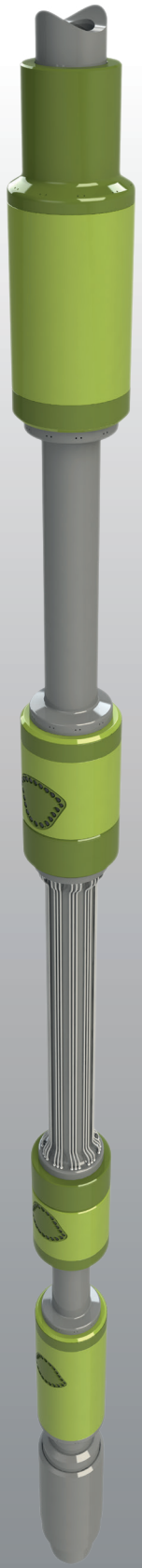
7 3/8" 10,000 PSI
Modular In-Riser Landing String System



THE IN-RISER LANDING STRING SYSTEM OFFERS MAXIMUM CONFIGURATIONAL FLEXIBILITY AND EACH OF THE SYSTEM'S COMPONENTS INCORPORATE A COMMON PRE-LOADED CONNECTION.

The valve modules utilise our patented Revolution technology. They can be orientated to seal from above or below and provide either mudline safety valve or retainer valve functionality. Each valve is powered by a self-contained PowerPlus accumulator module capable of providing rapid fail-safe closure.

DESIGN DATA

Nominal bore diameter	7 3/8" (187.3 mm)
Design pressure	WORKING: 10,000 psi (68.9 MPa) TEST: 15,000 psi (103.4 MPa)
Design standard	API 17G 3rd edition ballot draft
Temperature class	U (0°F to 250°F / -18°C to 121°C)
Service	Sour
Qualification	API 17G 3rd edition ballot draft
Sand class	Class I (2% sand, no fracking content)
Shearing class	Wireline / coiled tubing

PERFORMANCE DATA

Maximum hydraulic pressure	10,000 psi (68.9 MPa)
Actuator volume (approx.)	0.4 U.S. gallons (1.5 litres) per valve
Acceptable hydraulic fluid	Any water or oil based control fluid

VALVE MODULE QUALIFICATION

The Revolution valve will be qualified to the latest edition of API 17G, consolidating the requirements for this equipment from various standards. Testing will include:

▷ Factory acceptance test	▷ Hyperbaric testing	▷ Pump through testing
▷ Endurance testing	▷ Dropped object analysis	▷ Chemical injection test
▷ Performance testing	▷ Shear & seal testing	

ACCUMULATOR MODULE QUALIFICATION

The accumulator module will be qualified in accordance with manufacturer specified requirements. Testing will include:

▷ Factory acceptance test	▷ Temperature testing	▷ System integration test
▷ Pilot valve qualification	▷ Gas storage test	

STANDARDISED CONNECTION QUALIFICATION

The standardised pre-loaded connection will be designed, analysed and tested in accordance with the latest edition of API 17G. The scope will include:

▷ Determination of static capacities	▷ Make/break testing
▷ Determination of cyclic capacities	▷ Static load testing
▷ Hydrostatic testing	

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