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subsea engineering

Subsea Landing String System



The Subsea Landing String System is an assembly of large bore hydraulically controlled valves for through-riser completion installation and intervention. The valves provide enhanced cutting and post-cut sealing capabilities with the ability to rapidly isolate the well. The innovative design delivers superior performance at a fraction of the cost of conventional systems.

Innovative 'shear and seal' technology that out performs its rivals

The unique Revolution Valve is the only valve on the market that does not compromise its ability to seal due to its novel shearing action and does not use any elastomer components for fluid containment. This is the best line of defence in high pressure, high temperature environments and when a fast and reliable seal is required. It is easily scaled to meet all well bore sizes, to cut all likely intervention media and its compact size with rotary actuators means it is ideally suited to the challenging confines of in-riser and slim line open water intervention.

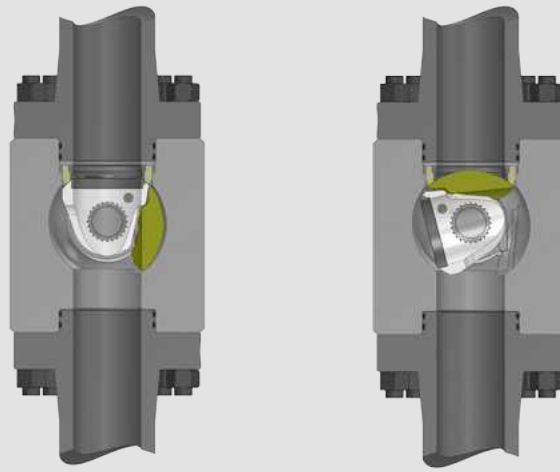


revolutionTM
valve

Winner: 'Emerging Technology'

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Subsea Landing String System

Features	Benefits
Fewer, simpler components and stronger fit-for-purpose design	<ul style="list-style-type: none"> Minimises cost Improves reliability Reduces lead time
Separates cutting and sealing components in a single device	<ul style="list-style-type: none"> Eliminates risk of damage to the seal during cutting giving unparalleled post-cut sealing performance
Rotary actuators	<ul style="list-style-type: none"> Eliminates binding and maximises cutting torque
External actuators	<ul style="list-style-type: none"> Separates controls from the wellbore environment Ensures rapid closure
Resilient well bore sealing	<ul style="list-style-type: none"> Enables use in high pressure and high temperature applications Provides explosive decompression resistance
Compact and lightweight design	<ul style="list-style-type: none"> Facilitates installation in short BOP's Allows additional or alternative valve functions to be incorporated
Common flanged connection	<ul style="list-style-type: none"> Improves structural integrity including fatigue capacity Reduces cost

Cutting Capability		
Slickline	Up to 10 off 0.160"	
Braided Cable	Up to 2 off 0.520"	
Coiled Tubing	Up to 2 3/8" x 0.204"	

Specifications							
Bore	7 3/8"	187 mm	6 3/8"	162 mm	5 1/2"	140 mm	
Working Pressure	10,000 psi	690 bar	15,000 psi	1 034 bar	20,000 psi	1 379 bar	
Structural Components	Low alloy steel		Low alloy steel		Inconel		

Standard on all Systems		
Temperature Range	0°F to 350°F	-18°C to 180°C
Hydraulic Pressure	10,000 psi	690 bar



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