

# Veto™ 7 Subsea Test Tree

## PRIMARY WELL-CONTROL BARRIER FOR COMPLETION AND INTERVENTION

### OVERVIEW

As part of Halliburton's premiere Veto™ 7 subsea safety system, the Veto 7 subsea test tree is a hydraulically operated dual "fail-safe closed" valve system designed as a primary well-control barrier combined with a passively orienting latch mechanism. The subsea test tree is a critical part of any completion landing string (CLS) flowing back hydrocarbons to a semi-submersible or dynamically positioned drilling vessel. Deployed within the drilling blowout preventer stack, the subsea test tree provides dual-barrier well isolation along with a means of disconnecting the landing string. It leaves the well with dual safety barriers until re-latch and recommence with required operations—a critical safety requirement in the offshore environment.

### FEATURES

- » Dual "fail-safe closed" independently operated ball valves
- » Dual secondary unlatch feature
- » Hydraulic secondary unlatch ability utilizing the annulus' applied pressure
- » Mechanical unlatch ability post-shear utilizing an overshot latch retrieval tool
- » Passively orienting latch system
- » Ball valves provide full working pressure well isolation from above and below
- » Low-pressure pump-through capability from above
- » Common ball design ensures positive valve closure and barrier with capability to shear coiled tubing or wireline at both valves
- » Chemical injection point between balls with dual check valves utilizing metal to metal seats with elastomeric backups
- » 16 pass-through ports to operate TH/THRT and downhole functions
- » Dual-sealing barrier from bore for well isolation
- » Halliburton high-integrity tool joints
- » Design verified by third-party certifying authority
- » Integral slick joint

### BENEFITS

- » Passive latch system provides positive latching, removing the need to rotate the landing string to achieve engagement
- » Coiled tubing cutting validated to API 17G cut and seal requirement
- » Latch position indicator provides easily visible indicator to confirm latch status when passing through the rotary
- » Increased number of hydraulic passthroughs for SMART well controls
- » Dual-sealing elements installed in critical areas of well isolation increase reliability
- » All connections are locked from rotation with the Halliburton lock mechanism, which allows each connection to be fully shouldered out, thus increasing overall strength without the need to back off connections to get alignment
- » Provides ability to re-establish electrical continuity through the latch utilizing two electrical wet mate connectors
- » High tensile capacity can enable safe deployment of heavy completions



## Equipment Specifications

Applicable Standards	
API 17G	Design and Manufacture of Subsea Well Intervention Equipment
Operating Limits	
Inner Diameter Under Operating Limits, in. (mm)	7-3/8 (187)
Outer Diameter, in. (mm)	18.63 (473)
Inner Diameter, in. (mm)	7.38 (187)
Overall Length, in. (mm)	129.40 (3287)
Approximate Weight, lb. (kg)	6,500 (2,950)
End Connections	10-3/8 in. 3-TPI Stub Acme Box
Maximum Working Pressure, psi (bar)	10,000 (689)
Maximum Bore Test Pressure, psi (bar)	15,000 (1,034)
Minimum Service Temperature, °F (°C)	35 (2)
Maximum Service Temperature, °F (°C)	250 (121)
Tensile Capacity @ 0 psi, lbf (kN)	1,200,000 (5,538)
Tensile Capacity @ Working Pressure, lbf (kN)	500,000 (2,224)
Coil Tubing Cutting	2" 0.203 WT 110 Ksi
Wire Cutting	Up to 1/2" Braided Line
Service	H <sub>2</sub> S

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