

Veto™ 6 Subsea Test Tree

PRIMARY WELL CONTROL BARRIER FOR COMPLETIONS AND INTERVENTIONS

OVERVIEW

As part of Halliburton's premier Veto™ 6 subsea safety system, the Veto 6 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 relatch and recommence with required operations—a critical safety requirement in the offshore environment.

FEATURES

- » Dual "fail-safe closed" independently operated ball valves
- » 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 below
- » Upper ball valve testable to full working pressure from above
- » Low-pressure pump-through capability from above
- » Coiled tubing cutting capability
- » 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



BENEFITS

- » Passive latch system provides positive latching, removing the need to rotate the landing string to achieve engagement, thereby eliminating potential issues with landing weights and string torsion
- » Significantly shorter design enables space out within a greater number of rig BOPs
- » Latch position indicator provides easily visible indicator to confirm latch status when passing through the rotary
- » Provides ability to pump fluids through closed balls from above for well access, if required
- » Increased number of hydraulic pass-throughs 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
- » High tensile capacity can enable safe deployment of heavy completions

Equipment Specifications

Applicable Standards		
API 6A	Specification for Wellhead and Christmas Tree Equipment	
API 14A	Specification for Surface-Controlled Subsurface Valves	
Operating Limits		
Nominal Tool Inner Diameter, in. (mm)	6-3/8 (162)	6-3/8 (162)
Overall Diameter, in. (mm)	18-5/8 (473)	18-5/8 (473)
Overall Length c/w Integral Slick Joint, in. (mm)	8745 (2,221)	8745 (2,221)
Approximate Weight, lb. (kg)	4,290 (1,946)	4,290 (1,946)
End Connections	9 in. 4 TPI Stub Acme	9 in. 4 TPI Stub Acme
Maximum Working Pressure, psi (bar)	15,000 (1,034)	10,000 (689)
Maximum Bore Test Pressure, psi (bar)	22,500 (1,551)	15,000 (1,034)
Minimum Service Temperature, °F (C)	35 (2)	250 (121)
Maximum Service Temperature, lbf (kN)	2,000,000 (8,896)	1,300,000 (5,783)
Tensile Capacity @ 0 psi, lbf (kN)	2,000,000 (8,896)	1,300,000 (5,783)
Tensile Capacity @ Working Pressure, lbf (kN)	1,350,000 (6,005)	850,000 (3,781)
Service	Standard	H ₂ S
Coiled Tubing Cutting Capability	2 in. .203WT 110Ksi	2 in. .203WT 110Ksi
Wire Cutting	Up to 1/2 in. Braided Line	Up to 1/2 in. Braided Line

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

H010433 2/23 © 2023 Halliburton. All Rights Reserved.