

SecureTrac™ Compact Casing Shoe System

Maintains well barrier integrity while allowing efficient pump-down operations for well stimulation

Applications

- Unconventional wells
- Toe initiation

Features

- Exceeds API 10F performance standard and is tested to more than 1,200,000 lb equivalent sand content, nearly double the API standard
- Field-proven, high-performance Sure Seal 3® plunger valves provide gas-tight barriers even at low differential pressures
- Internal steel components resist erosion during flow
- Quadruple, independently functioning valves minimize risk of mechanical failure
- Latch-in profile ensures additional backpressure redundancy
- Bump and backpressure capabilities maximize the performance in operations using both wet shoe and toe sleeve applications

Benefits

- Provides backpressure isolation after prolonged circulation
- Prevents fluid and gas encroachment.



The SecureTrac system features four Sure-Seal 3 valves, a latch-in system for applications that use either a wet shoe or toe sleeve.

Description

The Weatherford SecureTrac compact casing shoe system harnesses the tremendous performance of the industry's original injectable wet shoe system while upgrading the valve configuration and geometry and consolidating connections with a single, four-valve system. The system validation was executed with rigorous computational fluid dynamics and flow regimes to eliminate performance-critical material erosion. The erosion control enables operators to circulate wellbores during various well construction and completion operations with the assurance the valves retain full function and sealing capabilities up to 15,000 psi (103.4 MPa) gas at 400°F (204°C). The high-performance latch-in plugs provide a positive pressure indication that cement has been fully displaced from the casing, leaving a test-proven, gas-tight high-pressure/high-temperature (HPHT) sub-surface isolation.

Specifications

Flow endurance	10 bpm for 62 hours
Sand equivalent	1,200,000 lb (544,310 kg)
Maximum fluid pressure	15,000 psi (103.4 MPa)
Maximum gas pressure	15,000 psi (103.4 MPa)
Maximum temperature	400°F (204°C)

