



ZoneSelect® Coiled-Tubing Stimulation Sleeve System

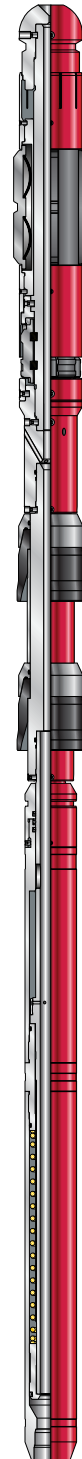
The Weatherford ZoneSelect coiled tubing (CT) stimulation sleeve system is part of the lower completions portfolio. The system comprises four components: CT stimulation sleeve, CT locator sub, CT anchor sub, and the CT combo sub. The ReelFrac ZoneSelect packer, designed as the shifting tool, is run on coiled tubing for the actuation, isolation, and stimulation treatment of the CT stimulation sleeve system.

Each CT stimulation sleeve, in conjunction with a CT combo sub and a casing joint in between, forms a stage of the completion string. As an alternative to a CT combo sub, a CT anchor sub and a CT locator sub can be run in tandem. During run in, the CT combo sub is used as a locator and exposes keys on the shifting tool when tension is applied. The shifting tool is then pulled up above the CT stimulation sleeve and subsequently pumped down with annular flow to shift open the sleeve. After the CT stimulation sleeve is fully opened, the shifting tool continues moving down the well until it reaches the CT combo sub. During stimulation, the shifting tool anchors in the CT combo sub. After stimulation is complete, the shifting tool is pulled up to treat the next stage.

If needed, the keys on the shifting tool are disengaged or covered up by the set-down weight while positioned in a CT locator sub. Weatherford recommends one CT locator sub for every three stages. The keys must be disengaged to enable the shifting tool to move downhole to a previously stimulated stage.

Applications

- Horizontal or vertical wells
- Openhole or cemented multistage completions
- Single-point or cluster stimulation applications
- Extended-reach applications





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Features, Advantages, and Benefits

- The operator defines the location and quantity of stages, which enables a custom completion for each well to maximize its production potential.
- Sleeves use positive-indication shear rings, which provide a clear surface indication that the tool is functioning as intended.
- No mill-out operation is required, which reduces overall operation cost and risk.
- The flow-area is not reduced through components, which provides more efficient fractures across all stages.

Specifications

Sleeve size	5 1/2 in.
Tubing size	5 1/2 in. (139.70 mm)
Tubing weight	23 lb/ft (34.22 kg/m)
Burst rating, 80k	10,800 psi (74.46 MPa)
Collapse rating, 80k	10,100 psi (69.63 MPa)
Tensile rating, 80k	533,000 ft-lb (241,764 kgf)
Torque rating, 80k	14,000 ft-lb (18,981 Nm)
Burst rating, 110k	14,900 psi (102.73 MPa)
Collapse rating, 110k	13,900 psi (95.83 MPa)
Tensile rating, 110k	732,900 lbf (332,437 kgf)
Torque rating, 110k	20,000 ft-lb (27,116 Nm)
Port area	19.54 in ² (12,606 mm ²)
Maximum OD	6.75 in. (171.45 mm)
Minimum ID	4.562 in. (115.88 mm)
Maximum temperature	325°F (163°C)