

ACTive Straddle

CT real-time multiset inflatable packer

APPLICATIONS

- Water and gas conformance shutoff
- Matrix stimulation
- Stimulation and conformance in
 - Perforated cased hole completions
 - Cased hole completions with sliding sleeves
 - Completions with inflow control devices
 - Multistage completions
- Chemical treatment
- Sand consolidation treatment

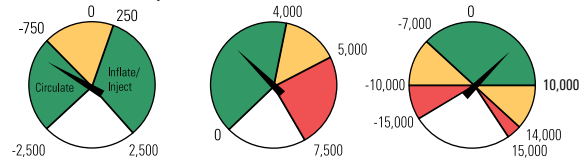
ADVANTAGES

- Live well intervention capability
- Downtime reduction through achieving success on first attempt
- Robust multiset system
- Improved reliability on efficient and controlled setting
- No ball drop required for inflation and deflation
- Computer-engineered job design
- Materials resistant to aggressive chemicals and harsh downhole environments
- High-pressure isolation seal
- Straddle length can be configured to range from 6 to 50 ft [1.8 to 15.2 m]
- Accurate depth control and real-time pressure monitoring using the ACTive* real-time downhole coiled tubing services to measure
 - Bottomhole pressure and bottomhole temperature for optimized fluid placement and packer pressure assurance
 - Casing collar locator, gamma ray, or both for depth control
 - Tension and compression (axial force) for flow control and setting tool manipulation

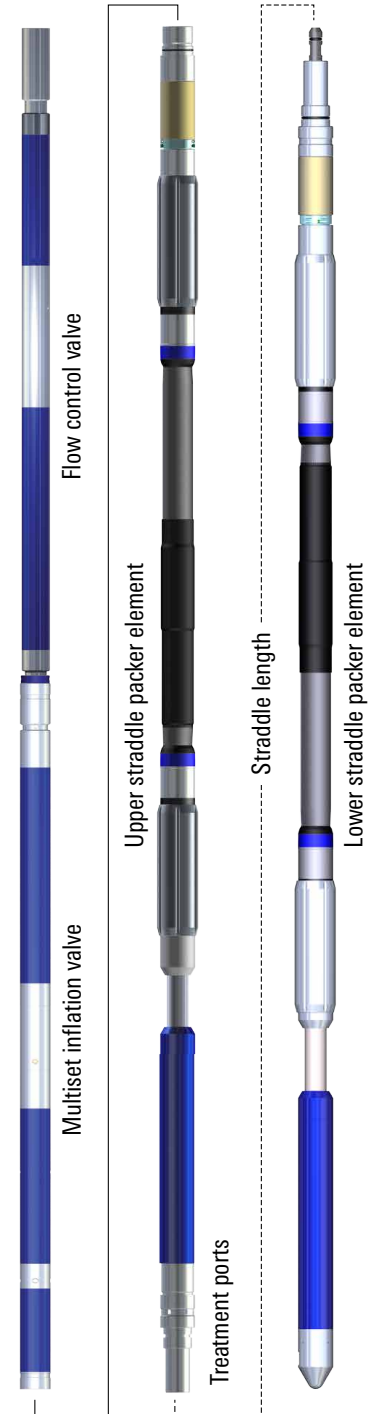
Overcoming conventional operating restrictions of inflatable packers under extreme conditions, the ACTive Straddle* CT real-time multiset inflatable packer extends critical through-tubing zonal isolation to previously inaccessible, chemically harsh, and high-temperature (HT) environments. Deployed with the ACTive Isolation* CT real-time zonal isolation service, this inflatable straddle packer provides a rugged high-pressure seal at high inflation ratios with the added benefits of a reliable multiset mechanism.

The ACTive Straddle inflatable packer is run on CT into vertical, deviated, or horizontal wellbores, eliminating the need for a workover rig. Multiple remedial operations can be performed and repeated without killing the well on existing wellbore access points, such as open perforations, frac ports, and sliding sleeves.

The packer is resistant to chemicals, making it ideal for selective placement of treating fluids that are required for acid stimulation, water control, gas shutoff, and chemical treatment. Manipulations from surface on the ACTive Straddle inflatable packer are confirmed through real-time measurements displayed in the control cabin using the ACTive services' nonobstructive fiber-optic technology, providing real-time depth, bottomhole annular and circulating pressures, bottomhole temperature, and bottomhole load measurements.

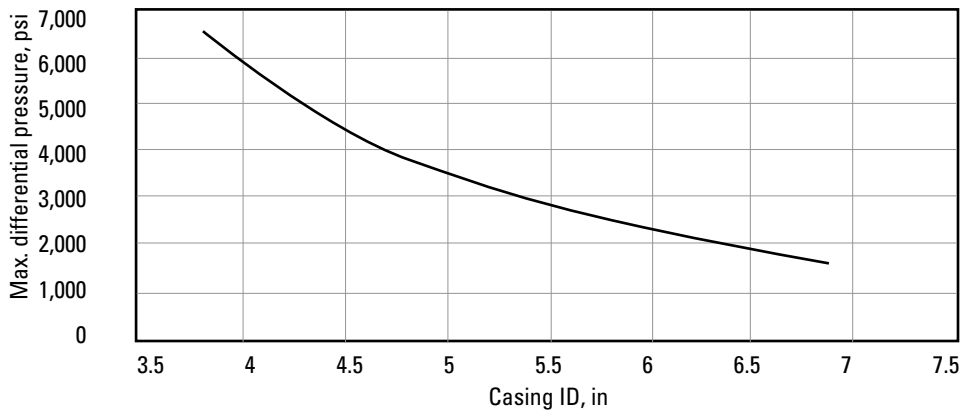


Real-time pressure gauge readings of spotting valve position (left), deflation indicator (center), and packer force (right), in psi.



ACTive Straddle inflatable packer.

ACTive Straddle



Pressure versus inflation ratio at maximum temperature. The engineered slat design of the ACTive Straddle inflatable packer allows higher differential pressure at varying inflation ratios.

Specifications

Max. packer element differential	
2:1 expansion	5,000 psi [34.5 MPa]
3:1 expansion	2,000 psi [13.8 MPa]
Max. hole deviation	90°
Max. system temperature	300 degF [149 degC]
Max. dogleg severity	
Operational	10°/100 ft
Survivable	30°/100 ft
Max. H ₂ S levels [†]	
Set time < 30 d at 300 degF [148.9 degC]	150 psi partial pressure
Set time > 30 d at 250 degF [121 degC]	50 psi partial pressure
Min. tubing requirements for packer setting	2.88-in [7.3-cm] OD; 2.32-in [5.89-cm] ID; 7.9-lbm/ft casing
Max. OD of element before expansion	2.125 in [5.4 cm]
Max. OD of element after expansion	6.38-in [16.2-cm] ID; 7.63-in [19.4-cm] OD; 29.7-lbm/ft casing
Fluids	Stimulation fluids: HCL, mud acid Chemical treatments: solvents Water/gas shutoff: MARA-SEAL SM , gelling agents

[†]Values in the table above are operational limits.

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