

Innovus Frac-Isolation Assembly

Enables efficient, repeatable pinpoint stimulation with reliable sleeve operation in demanding wellbore environments

Applications

- Multistage unconventional wells requiring pinpoint stimulation and selective stage access
- Extended-lateral wells requiring reliable sleeve operation at extended measured depths and lateral lengths
- Sand-laden wellbore environments requiring dependable fracturing and sleeve-shifting operations
- Fracturing operations requiring annular or through-workstring stimulation methods
- Sand-laden environments prone to plugging

Features and Benefits

- Uses a fully mechanical operating system to provide dependable sleeve operation without reliance on complex hydraulic actuation systems
- Provides circulation capability to enable rapid recovery from screenouts and minimize operational delays
- Incorporates hardened erosion-resistant surfaces to extend tool service life in abrasive fracturing environments
- Uses an extreme-service isolation packer seal and pressure-equalizing valve to protect sealing elements during operation
- Uses a locate regulator to deliver consistent sleeve-location signatures and improve operational certainty during stimulation execution
- Records pressure and temperature data across the frac zone to support post-completion evaluation and fracturing design decisions

Tool Description

The Innovus™ frac-isolation assembly (FIA) is a mechanically operated service tool deployed on coiled tubing or jointed pipe to locate, open, isolate, stimulate, and close Innovus frac sleeves during multistage completions. Designed for high-rate, sand-laden wellbore conditions, the FIA provides reliable sleeve operation, zonal isolation, and stimulation control while supporting operational flexibility across a wide range of completion designs.

