

ICV Position Sensor

CONFIRMS ICV POSITION IN REAL TIME

OVERVIEW

The Halliburton interval control valve (ICV) position sensor assembly (PSA) provides a reliable and field-proven method to confirm the flowing position of the internal sliding sleeve at the ICV flow trim. The PSA helps ensure the ICV flow characteristics and that the flow trim opens to the intended position.

The PSA is used in SmartWell® completion systems that include HS-ICVs designed to allow choking at the reservoir, in which real-time confirmation of ICV position through sustained position periods is preferred.

BENEFITS

- » Maximized production by providing a real-time, quick and easy ICV position reference point
- » Field-proven track record with increased reliability and precision
- » Remote control capabilities in complex well configurations where ICV position is crucial

FEATURES

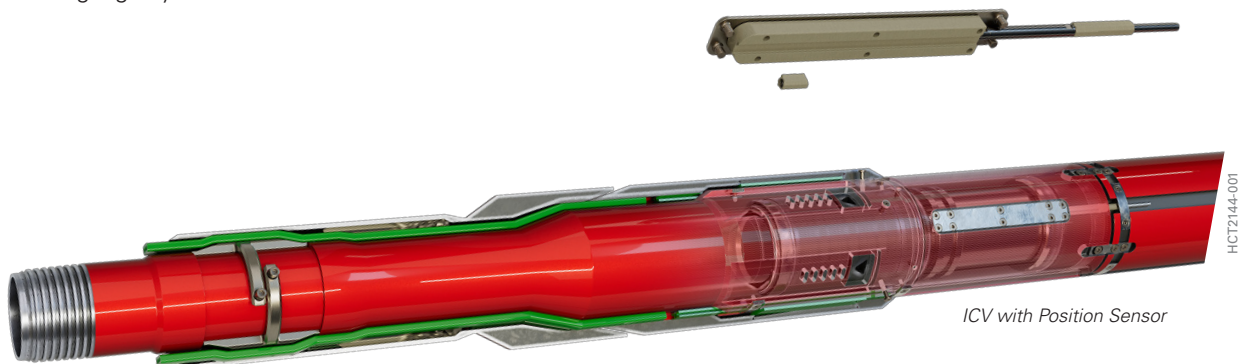
- » Compatible with HS-ICV design
- » ICV position confirmed to the nearest percent of full travel
- » Magnetic coupling between the PSA and ICV allows ICV movement tracking while isolating pressure
- » Mechanically isolated from the ICV
- » No influence on ICV movement
- » Readings calibrated to ICV movement
- » ICV position read through the pressure and temperature permanent gauge system

CONNECTIONS

- » Tubing encapsulated conductor (TEC) line from the PSA easily connects into a gauge feedthrough port
- » The PSA is contained in a welded 3/8-inch OD pressure barrier housing on the outside of the ICV
- » PSA readings are communicated through the permanent gauge system using ROC™-X gauge protocols

ICV FEATURES

- » HS-ICVs must be manufactured with PSA installation features to allow PSA fitment
- » ICVs designed with PSA installation features can be deployed without a PSA installed
- » PSA installation and calibration occurs during the ICV assembly build



ICV with Position Sensor

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

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