SBRO-DVX[™] Side-Pocket Gas-Lift Mandrel

Reduces nonproductive time by improving well containment and decreasing chances of corrosive fluids contacting the casing

Applications

- Deepwater, subsea, or other high-profile wells where it is beneficial to prevent wellbore fluids from entering the annulus
- Wells where well control is a concern during the gas-lift valve pulling and installation process

Features and Benefits

- Dual external valves prevent wellbore fluids from entering the casing annulus and protect the casing string from high pressures and corrosive fluids, which enhances safety and environmental integrity.
- The specialized design avoids the problem of tubing-to-casing communication that occurs with standard side-pocket mandrels during gas-lift valve replacement.
- Complete unloading of the casing annulus and tubing after gas-lift changeout is not required, which reduces production downtime.
- If required, DVX mandrels can be validated to the highest American Petroleum Institute certifications to confirm that the mandrel can withstand extreme wellbore conditions.
- The industry-standard pocket configuration is compatible with gas-lift valves that have an outside diameter (OD) of 1.0 or 1.5 in. (25.4 or 38.1 mm) and with latches from other manufacturers.
- The pocket and check-valve configurations provide ample gas passage capability, which enables maximum production rates.
- The packing-stack arrangement provides optimum force distribution to prevent ejection of the valve from the mandrel pocket, which reduces the chances of nonproductive time.
- Gas-lift valves are pulled and installed using standard wireline tools.

Tool Description

The patented Weatherford SBRO-DVX side-pocket gas-lift mandrel features unique dual external valves, which prevent corrosive well fluids from entering the casing annulus through the gas-lift valves or through empty mandrel pockets. These check valves provide a second and third protective barrier for the casing string against high pressures, hydrogen sulfide (H_2S), carbon dioxide (CO_2), and other hazards. External placement of the valves enhances safety, protects the casing string and the environment, and makes the SBRO-DVX mandrel well suited for use in severe well conditions.

Weatherford SBRO-DVX gas-lift mandrels can be provided to meet API 19G1 V-1 certification, which is currently the highest standard in the industry.



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Options

- Custom mandrel designs are available for premium threads and weights, special running-OD clearance, and premium metallurgy (such as 13Cr, S13Cr, and 718 Inconel*).
- Special protective rails or grooves can be included in the design to facilitate different combinations of multiple data and chemical-injection lines.





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