FORTRESS TRM

TUBING RETRIEVABLE MANDREL

TIER 1

The Tier 1 Fortress TRM is installed as an integral component of the tubing string and provides the chassis to which a Fortress Tubing Retrievable Valve (TRV) is secured to and operates at.

The tubing retrievable mandrel provides ported access to the ID of the tubing string and a threaded connection for mounting gas lift valves. The gas lift valves are fitted on the mandrels and subsequently installed into the well with the tubing string. The valves are immediately operational, opening and closing in response to preset pressures in order to provide lifting assistance of well-bore fluids. Multiple mandrels and valves are commonly installed in a well as part of a designed gas lift system.

The Fortress TRM features an external lug and guards welded to the mandrel body that protects the gas lift valves from damage as they are installed into the well bore. Each mandrel is tested following API procedures to ensure they meet all industry standards and are of the highest quality.

CURRENT SIZES

- 60.3mm through 139.7mm (2.375” through 5.5”)

STANDARD OFFERING

- Full-bore drift ID
- EP-2 coated
- For 25.4mm (1”) & 38.1mm (1.5”) OD gas lift valves
- J-55, L80, P-110
- API EUE threads
- API certified

OPTIONS

- Reduced ID
- Slim-hole OD
- Baked epoxy coating
- Other materials upon request
- Other connections as required
- Refurbish any used mandrels

FEATURES & BENEFITS

- Full bore drift ID providing unrestricted access to lower components in the tubing string
- External guards to protect the gas lift valve minimizing risk of damage during installation
- Concentric ID provides compatibility with gas-lift / plunger-lift applications
- Manufactured to API specifications ensuring quality and performance
- Extensive run history providing assurance of installation success

APPLICATIONS

- Artificially lifted production wells
- Liquid loaded wells
- High liquids content production
- Liquid rich gas production
- Oil wells
- Vertical / Deviated / Horizontal
- Continuous or intermittent flow