



Uniset CPC Tubing Hanger Plug

Features, Advantages and Benefits

The Weatherford Uniset 'CPC' Tubing Hanger Plug has been specifically developed for large bore and high pressure applications. It can be set on wireline or polished rod, offering a much higher level of operational flexibility than conventional devices of this type.

The plug consists of three sections each offering certain unique features and benefits :

C The Uniset CRQ Lock Mandrel

The CRQ lock mandrel is a generic development for large bore service of the Uniset RNG Retractable No-Go Lock Mandrel, which itself has seen wide service over the last twenty years. It offers all the benefits associated with the RNG system including positive location on no-go, full pressure loading in both directions on the keys, and shear release.

P The PT Equalizing Assembly

The PT equalizing assembly is a conventional melon-type design, allowing one run deployment and retrieval of plugging devices. In tubing hanger plug service, it is used in conjunction with back pressure valves, blank caps, or pump open plugs.

On retrieval, the 'timing' of the travel of the melon ensures that the pulling tool for the plug cannot be engaged until the ports are in the equalizing position.

C The Type C Back Pressure Valve (BPV)

The Type 'C' back pressure valve is an unconventional spring supported poppet valve. It holds pressure from below and allows full kill rate injection from above.

It incorporates a dual sealing feature with a primary metal-to-metal seal and secondary elastomeric seal. When it is necessary to pump through the device, the spring-loaded protector sleeve isolates the elastomeric back up, ensuring a higher degree of sealing integrity than all similar devices.

Key Features and Benefits

- Unloaded no-go in the hanger profile
- Minimal restriction through the tubing hanger
- Bi-directional pressure ratings up to 15,000 psi at 400°F
- Very high injection rate capability for well kill operations
- Repeatable sealing integrity
- Flexible performance - can be wireline or polished rod set
- Positive tell-tale that plug is correctly set
- Running tool can always be released
- Shear release for assured retrieval

