18-15m NXT-M BOP Assembly

Boleless BOP Doors
Shaffer® NXT-M BOP Systems are unique in providing a means of significantly improving safety and efficiency in the critical path of activity. With the replacement of the door bolts in ram BOPs, National Oilwell Varco has eliminated the time consuming manual practice of using brute force to torque up the doors. This results in a significant improvement in the critical path of activity. With the replacement of the door bolts in ram BOPs, National Oilwell Varco has eliminated the time consuming manual practice of using brute force to torque up the doors. This results in a significant improvement in the critical path of activity.

Boltless BOP Doors

Hydraulic System
Hydraulic power to operate a Model NXT-M ram BOP can be furnished by any standard oil field accumulator system. Hydraulic passages drilled through the body eliminate the need for external manifold pipes between the rams. Each set of rams requires only one opening and one closing line. There are two openings and two closing hydraulic ports, clearly marked, on the back side of the BOP. The extra hydraulic ports facilitate connecting the control system to the preventer. A standard hydraulic accumulator unit will close any Model NXT-M ram with rated working pressure in the well bore.

Ultra-Temp™
The conservative Shaffer™ testing procedures call for maintaining pressure and temperature for the duration of the test. Even with these stringent demands, the UltraTemp rams hold in witnessed testing.

Low Force Blind Shear (LFS) Rams
The force required to shear casing is reduced by at least 50%. The LFS Ram shears 14”, 113ppf, Q-125 casing at 2700 psi with a 22” operator. Multiple shear and sax sequences can be performed with the same assembly, including conditions where the drill pipe is hung-off below the shear ram cavity, enhancing reliability and extending the length of the BOP stack deployment.

Weldless Cavity
The introduction of no weld cavities in previous Shaffer™ BOP designs is carried on in the NXT-M models. This feature introduces replaceable parts to the cavity to eliminate extensive in shop repairs and post weld heat treatments. The seal seat, skid plate and side pads can be replaced upgrading the BOP cavity tolerances to as new condition.

18-15m NXT-M BOP Assembly Features

BOP | Triple

BOP | Double

BOP | Single