



The Type 53 (LWS) Ram Blowout Preventer is designed for safe well pressure control during surface drilling and workover operations. The simple and reliable design has been proven and accepted for reliable operation in all oil and gas areas in the world. The 53 BOP is available in either flanged or studded configurations. The studded top and bottom design is preferred on smaller drilling rigs because of its short height and reduced weight when compared to other BOP's of the same size.

The Type 53 BOP is normally supplied with a manual lock, which also provides a visual indication of the ram position. An automatic ram locking system is also

available. Oversized operating pistons are available for shearing operations, if required.

The operating fluid supplied to the BOP is made by a single open and close connection to the BOP. The fluid is ported to the opposing doors through manifold tubes between the hinge bracket assemblies.

A ram change is made by loosening hex head cap screws on each door assembly and rotating the door assembly away from the BOP body faces. A simple ram design, which allows for a ram to be inverted, increases the ram packer life. Ram assemblies are available for blind, pipe, dual pipe, offset, variable pipe, and shearing operations.

All rams slide horizontally from the BOP, taking less room required for ram changes.

All materials used in the construction of the Type 53 Ram Blowout Preventer are rated by NACE MR-0175 and ISO 13533 for use in hydrogen sulfide environments.

### **SPECIAL FEATURES OF THE TYPE 53 (LWS) RAM BLOWOUT PREVENTER:**

- Designed and manufactured to ISO 13533 and API Specification 16A for Drill Through Equipment
- Shorter in height and reduced weight when compared to other BOP's
- 5000 psi (34.47 Mpa) maximum working pressure
- Standard operation pressure of 1500 psi (10,34 Mpa)
- Available with either flanged or studded end connections
- All hydraulic operating ports are 1" NPT
- Large assortment of ram sizes and types are available