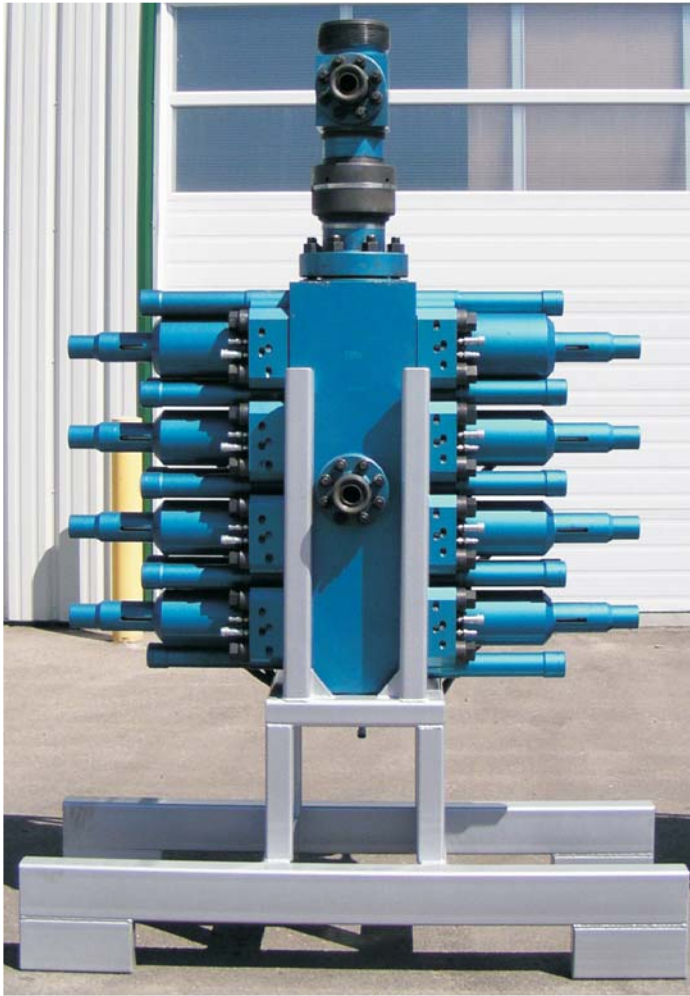


Blow-out Preventor



Overview

Used to provide positive protection against blow-outs and to secure the well in an emergency. This allows work to be safely carried out, under pressure, on surface equipment while the tubing is still in the wellbore.

The BOP is available in two configurations; a quad ram configuration or a combi-ram configuration. By utilizing combination rams, the BOP can do all of the same functions of a quad BOP, with half the rams, giving you a shorter stack height and a lighter work piece than a quad BOP.

The BOP closing design consists of a hydraulic actuator assembly connected to each ram assembly. This allows the rams to be hydraulically compressed around the tubing from opposite sides which creates a seal, thus containing well pressure below the rams. Pressure across the rams is equalized, through an equalizing assembly located across each ram assembly. This takes place prior to hydraulic retraction of the rams.

Quad Ram Configurations

1. Blind Seal Rams: Upper set of rams that seal off well pressure when nothing is in the well bore.
2. Shear Rams: Second set of rams to shear tubing up to 3-1/2".
3. Slip Rams: Third set of rams that hold the tubing in place while shearing or for other applications.
4. Pipe Seal Rams: Fourth set of rams that seal around the tubing, isolating the wellbore below.

Combi Ram Configurations

1. Shear/Seal Rams: Upper set of rams that can shear tubing up to 3-1/2" and seal-off the well pressure.
2. Slip/Seal Rams: Lower set of rams that hold the tubing in place while shearing or other applications and seal around the tubing, isolating the well bore below.

Features

- Available with a 2-1/16" BX-152 flanged side connection which can be used for fluid injection.
- Available with flanged top and bottom connections or a combination of flanged and/or union connections.
- Hydraulically controlled actuators.
- Equalizing assembly for each ram set.
- Manual locks for each actuator, in case of long term shut-in or hydraulic failure.
- Hydraulic actuator retract for easy service.
- NACE MR-0175 compliant components.
- Easy maintenance.

Specifications

- Size: 3-1/16", 4-1/16", 5-1/8", 7-1/16"
- Pressure Rating: 5,000psi, 10,000psi, 15,000psi
- Tubing Size: 1.00" - 3.50"
- Service: All equipment is Sour Service

Options

- Teflon coating of bore for added corrosion resistance.
- BOP transport stand.
- Painted customer colors.
- Actuator bridal hoses or ported thru body.

