



COIL TUBING QUAD BOP

FEATURES

This Quad BOP is designed primarily for use with coiled tubing operations. Modifications can be made for use in wireline operations. Contact the factory regarding the necessary modifications for any non-standard uses.

Quad BOP's are available with internal or external hydraulics in bore sizes from 2-9/16" to 6-3/8" and working pressures from 5,000 PSI to 15,000 PSI for standard or sour service. Coil tubing size ranges from 0.75" to 3.50".

Blind Rams: Made of alloy steel, will seal against pressure from below, with nothing between the rams, or on single strand measuring lines.

Shear Rams: Made of alloy steel, are designed to shear steel coiled tubing. They will also shear stranded or slick-line, either individually or in the coiled tubing.

No booster is required to cut coil tubing.

Slip Rams: Made of alloy steel, are designed as two-way grippers, will support a string of tubing or prevent the tubing from stripping out due to well pressure. Slip inserts are available for various tubing diameters.

Pipe Rams: Made of alloy steel, will centralize and seal around the tubing. These rams must be sized to the tubing being used.

Manual Locking Actuators: Each ram actuator is equipped with a manually operated, non rising stem, which is protected from dirt, corrosion and damage. They allow closing the rams in the event of a hydraulic failure; or to lock the rams after they are hydraulically closed. Hydraulics must be re-established and used to reopen the rams.

Ram Position Indicators: Position indicators on each actuator give a positive indication of ram position.

Equalizing Valves: Both the top and bottom ram positions are fitted with equalizing valves to prevent seal damage when opening either the blind or pipe rams with differential pressure. Equalizing valves are integral within the body of the BOP

Materials: Designed and manufactured to applicable API and NACE specifications, this equipment is also optionally available with certification to ISO standards.

OTHER CONFIGURATIONS

PARVEEN also offers other types of coil tubing blowout preventors. Each features a solid body construction and internal equalizing valves and may be ordered in single, double or triple configuration.





COMBI BOP



FEATURES

The 'Combi' BOP is designed to accept rams that combine the function of two rams. This can be either the combination of **Shear and Seal (blind)** or **Pipe and Slip**.

Combi BOP's are available as Single, double or any multiple configuration. The most obvious benefit is the reduced height and weight of a Combi BOP.

MANUAL LOCKING ACTUATORS

Each ram actuator is equipped with a manually operated, non rising stem, which is protected from dirt, corrosion and damage. They allow closing the rams in the event of a hydraulic failure; or to lock the rams after they are hydraulically closed. Hydraulics must be re-established and used to reopen the rams.

EQUALIZING VALVES

Combi BOP is fitted with equalizing valve to prevent seal damage when opening the Shear Seal or Pipe Slip Rams with differential pressure. Equalizing valves are integral within the body of the BOP

MATERIALS

Designed and manufactured to applicable API and NACE specifications.



TANDEM SIDE LOADING STRIPPER PACKER

FEATURES

The significant single feature of Parveen Tandem Side Loading Stripper Packer is that the Interlocking Packer, Anti-Extrusion Rings, Energizers and Bushing can be replaced through the open door below the injector. Changing packers is easy through the side door even with the tubing in the well.

After removing packer, anti-extrusion rings, energizers and bushings a full through bore is available for easy access of larger tools.

Additional Features are :

1. Accommodates larger Coiled tubing sizes upto 2.875" diameter and includes a full diameter bore upto 4.06".
2. The union nut can be 'latched up', while stabbing the lower housing into the BOP union.
3. 3 Nos. of Tie Rod arrangement provides significantly greater working space for field replacement of sealing components and bushings.
4. Piston 'Close' and 'Open' ports are NPT and both are located below the door clearance opening.
5. Key components are 17-4 PH, S.S. or Alloy Steel for optimum strength and corrosion resistance and bushings are of Aluminum Bronze.
6. Convenient NPT Gauge / Injection port.
7. Interlocking packer, anti-extrusion rings and energizers are interchangeable with competitors. Various materials are available to suit specific well / service conditions.
8. Glass filled Teflon anti-extrusion rings provides optimum Interlocking Packer support/reliability.
9. Hydraulic control supply ports are 4 Nos. of NPT, which require no special fittings.
10. Unique 'Breach Lock' style Lock Flange provides reliable safety of Door closure yet offers easy field operation. No special tools required.
11. The Piston is situated below the packer element. Having the Piston in this position will decrease the amount of hydraulic pressure required to pack-off around the Coil tubing.

OPERATING PARAMETERS

Assembly Working Pressure	:	10,000 psi
Test Pressure	:	15,000 psi
Operating Temperature Range (with standard seals)	:	-20deg. F to +180 deg. F





SIDE LOADING STRIPPER PACKER

FEATURES

The Parveen coiled tubing Side Loading Stripper/Packer is designed for use with injectors built by various manufactures. The significant single feature of the Parveen Side Loading Stripper/Packer is that it offers field replacement of the Interlock Packer, Non- Extrusion Ring, and Bushing(s) below the injector and with tubing in the well.

Additional features of this Stripper/Packer include:

1. The Union Sub and Nut are field interchangeable.
2. The Union Nut can be 'latched up', while stabbing the Union Sub into the BOP Union.
3. Optimum tubing column support with tubing sizes 1.00, 1.25, 1.50, and 1.75 available.
4. Unique 3 - point Tie Rod arrangement provides significantly greater working space within the side Loading door clearance opening for enhanced field replacement of the vital sealing components and bushings.
5. Piston "Close" and "Open" ports are NPT and both are located below the door clearance opening.
6. Key components are 17-4 PH, Stainless Steel or Alloy Steel for optimum strength and corrosion resistance. These items are: Door, Lock Flange, Detent Pin, Energizer Piston, and the Tie Rods.
7. Below the door Energizer Piston arrangement does not move the critical upper tubing bushings. This unique arrangement provides continuous, non-changing tubing column support.
8. Convenient NPT Gauge / Injection Port.
9. Interlock Packer and Non - Extrusion Ring are interchangeable with competitors. Various materials are available to suit specific well /service conditions.
10. Glass - filled Teflon Non - Extrusion Ring provides optimum Interlock Packer support /reliability.
11. Hydraulic control supply ports (4) are NPT and thus require no special fittings.
12. Unique "breach lock" style Lock Flange provides reliable safety of Door closure yet offers easy field operation. *No special tools required!!*



OPERATING PARAMETERS

Assembly Working Pressure	:	10,000 PSI
Test Pressure	:	15,000 PSI
Operating Temperature Range (With standard seals)	:	-20 deg F to + 180 deg F

Hydraulic Operating Pressures

Piston Close (Packing - off)	:	5,000 PSI Max
Piston Open (Relaxing Packer)	:	5,000 PSI Max
Door Close	:	3,000 PSI Max
Door Open	:	3,000 PSI Max



CONVENTIONAL COIL TUBING STRIPPER PACKER

PARVEEN Conventional Coil Tubing Stripper / Packer is available to accommodate tubing sizes 3/4" through 2-3/8".

FEATURES/ADVANTAGES OF PARVEEN COIL TUBING STRIPPER/PACKER

- Adjustable mounting flange is suitable for 4-3/4" adjustment within the injector base.
- The union sub and nut are field interchangeable.
- Union nut can be 'latched' in up position for full visibility.
- Unique Split Clamp Cap Retainer assists field replacement of Bushing/Packer Insert.
- Piston 'Close' and 'Open' ports are 1/4" NPT and both located below the Adjustable Mounting Flange.
- Rod Wiper in Lower Bushing Gland keeps well 'trash' from seal.
- Piston Wear Ring to protect Piston Housing.
- Minimal (2-1/8") upward travel of cap-tubing Bushing-Keeper required to disassemble from Packer Housing allowing Split Cap to be located very near Injector Chains for maximum tubing support. (Upto 1-1/2" closer than competitors).
- 1/4" NPT Gage Port provides optional Injector Port.
- Double acting long stroke piston pushes Energizer/Packer Insert 3/16" beyond half length above Packer Housing for ease of change-out.
- Packer Inserts and Energizers are interchangeable with competitors. Various materials are available to suit specific well/service conditions.
- Glass-filled Teflon Non-Extrusion Ring for added support to packer elements.
- Long wearing bronze Upper and Lower Bushings.
- 1/4" NPT hydraulic and well pressure connections. No special fittings required.

