



## Quad Ram BOP

The **Quad Ram BOP** is designed to apply to seal the wellhead in the coiled tubing operation, so as to prevent the blowout accidents. The rams of the Quad Ram BOP can be opened and closed by hydraulic control, seal the wellhead with coiled tubing inside, or shear the coiled tubing to seal the wellhead in the emergency.

The Ram Assembled in the Quad Ram BOP from upper to lower normally is **Blind Ram, Shear Ram, Slip Ram, Pipe Ram**.



The **Blind Ram** could be used for well sealing when there is no coiled tubing in the well and the well needs to be sealed;

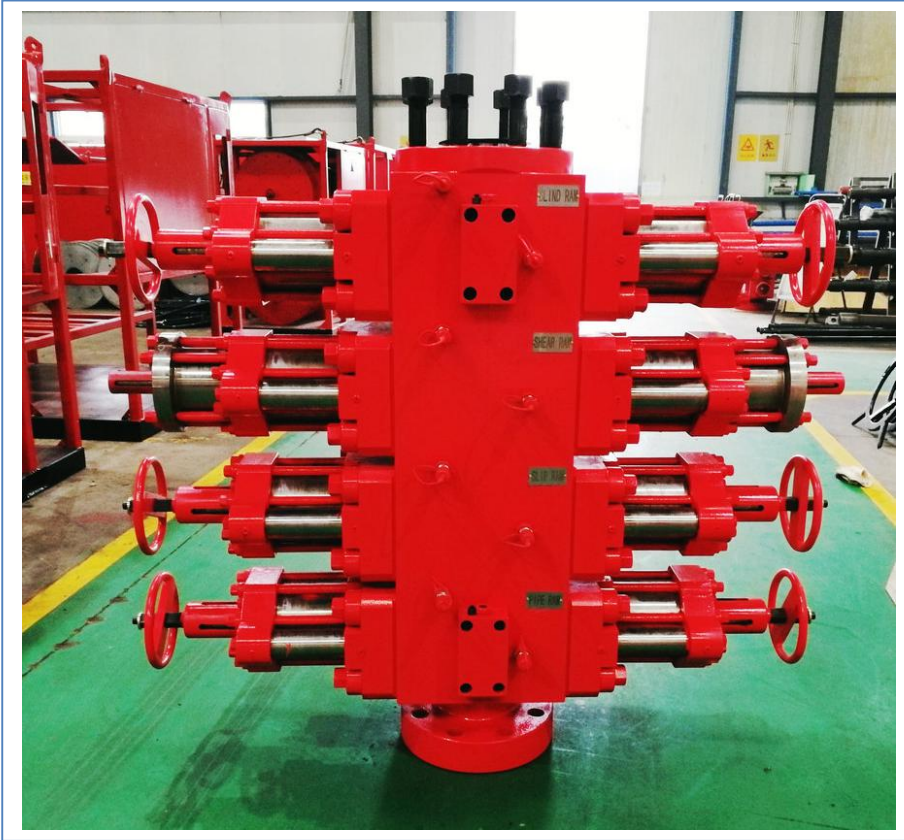
During coiled tubing operation in the well, in case of special conditions, like abnormal well pressure, the **Shear Ram** could be used for cutting off the coiled tubing when such tubes needs to be cut off; Meanwhile, the Blind Ram shall be used for well sealing, and the manifold connected by side flange shall be pumped into liquid to kill the well.

The **Slip Ram** could be used for hanging on the coiled tubing in case the coiled tubing is required to be hanged during coiled tubing operation in the well.

The **Pipe Ram** could be used for well sealing when there is coiled tubing operation in the well and the well needs to be sealed.

### Feature

- 1) The design and manufacturing of Quad Ram BOP comply with API Sepc-16A, NACE MR 0175 and other relevant standards.
- 2) Forged monobloc construction Body.
- 3) Hydraulic Cylinder Slide Rods, allowing fast removal of Cylinder for Ram or Seal replacement.
- 4) Ram position indicator Rods for external indication of the Ram position.
- 5) Combi Ram and Customized Ram Assemblies allowed on request.



*Surface*

*Red Color Painting*



*Surface*

*Nickel Plating*



**Main Parameter**

- 1) I.D.
- 2) Working Pressure
- 3) Coiled tubing Size you applied
- 4) Each Rams type you needed
- 5) Upper and Lower connection required
- 6) Service Environment ( STD or H2S )
- 7) Working Temperature

Quad Ram BOP								
Model	Working Pressure	Normal I.D.	Normal Ram Types of BOP	CT Size	Side Connection	Upper & Lower Connection	Service	Working Temperature
4FZ6-70	10000Psi	2-9/16"	Blind Ram Assy, Shear Ram Assy, Slip Ram Assy, Pipe Ram Assy  (From upper to lower)	1"~2-7/8"	API 2 1/16"-10K ( BX152) Stud Flange x 2"-1502 FIG.B	Upper API 2 9/16"-10K ( BX153) Stud Flange, Lower API 2 9/16"-10K ( BX153) Open Flange	STD or H2S	P + U -20°F~+250°F (-29°C~+121°C) Or As Required
4FZ7-70	10000Psi	3-1/16"				Upper API 3 1/16"-10K ( BX154) Stud Flange, Lower API 3 1/16"-10K ( BX154) Open Flange		
4FZ10-70	10000Psi	4-1/16"				Upper API 4 1/16"-10K ( BX155) Stud Flange, Lower API 4 1/16"-10K ( BX155) Open Flange		
4FZ13-70	10000Psi	5-1/8"				Upper API 5 1/8"-10K ( BX169) Stud Flange, Lower API 5 1/8"-10K ( BX169) Open Flange		
4FZ7-105	15000Psi	3-1/16"			API 2 1/16"-15K ( BX152) Stud Flange x 2"-1502 FIG.B	Upper API 3 1/16"-15K ( BX154) Stud Flange, Lower API 3 1/16"-15K ( BX154) Open Flange		
4FZ10-105	15000Psi	4-1/16"				Upper API 4 1/16"-15K ( BX155) Stud Flange, Lower API 4 1/16"-15K ( BX155) Open Flange		
4FZ13-105	15000Psi	5-1/8"				Upper API 5 1/8"-15K ( BX169) Stud Flange, Lower API 5 1/8"-15K ( BX169) Open Flange		

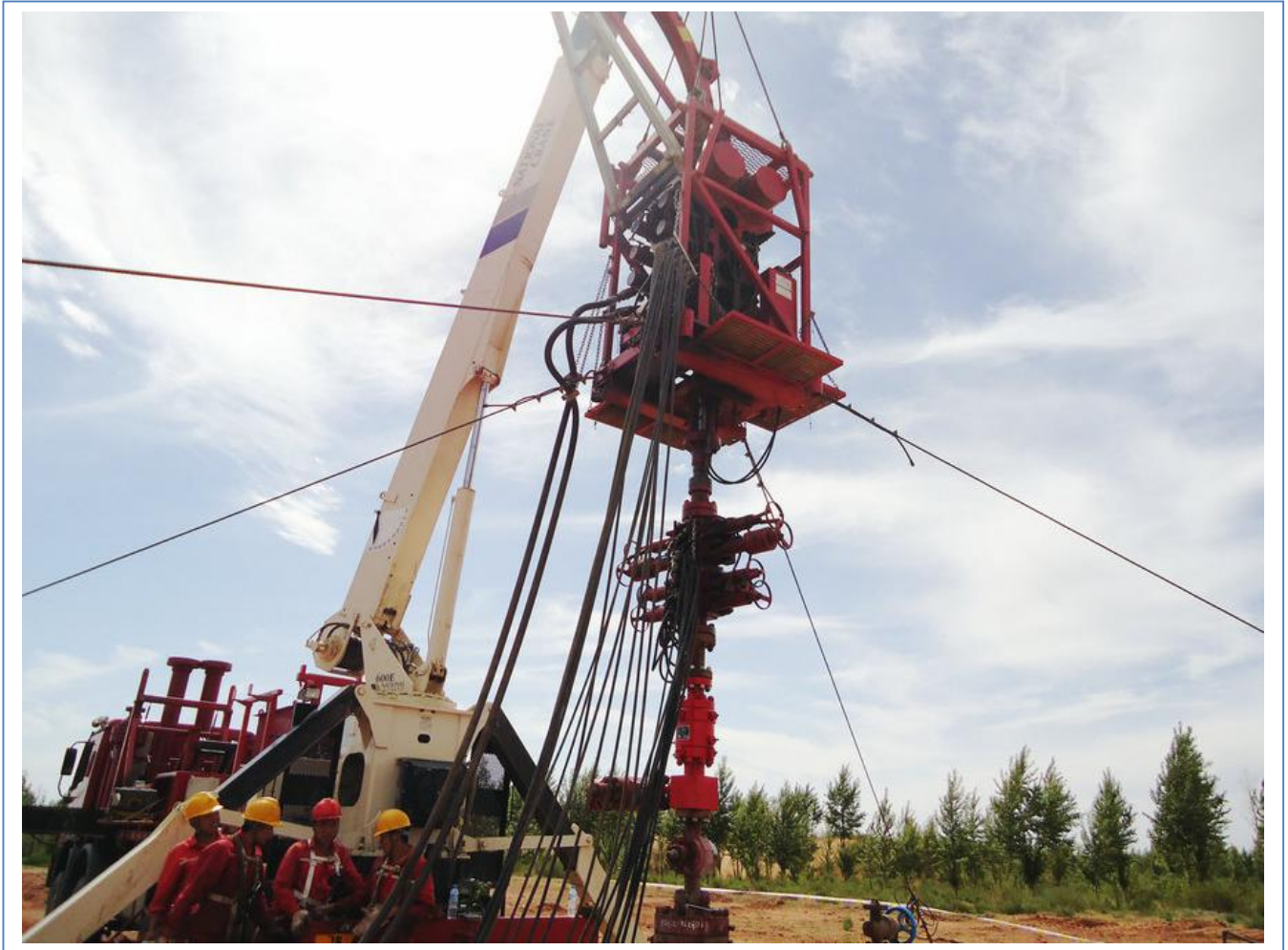
**Note**

- 1) Additional size available on request.
- 2) Customize Ram type on request



### ***Normal Guarantee Period***

12 months after the clients received the Equipment  
or 13 months after the commodity be shipped from Chinese Harbor.



### ***Information Required When Inquiry***

If you will purchase the whole Coiled Tubing PCE,  
please refer to the [Information Required When Inquiry](#) in Chapter 《Coiled Tubing PCE》.

If you purchase the Quad Ram BOP separately, the ***Main Parameter*** information above mentioned will be asked.

*Subject to change without notice*