

## BOP

The series blowout preventer conform to API Spec16A, and are granted the right to use API Spec 16A and Spec 6A monogram. We can support series size BOP as table 1 shows.

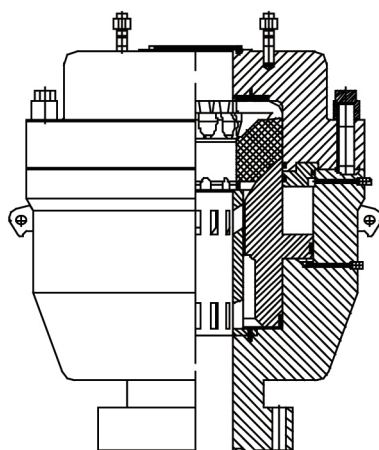
**Table 1 Basic data for Blowout Preventer**

bore in (in)	7 1/16	9	11	13 5/8	16 3/4
	18 3/4	20 3/4	21 1/4	26 3/4	
Working Pressure (MPa/PSI)	13.8/2,000	20.7/3,000	34.5/5,000	69/10,000	103.5/15,000
Flange connection specification	The flange connection is per API Spec 6A.				
BOP manufacture specification	The BOP is per API Spec 16A.				

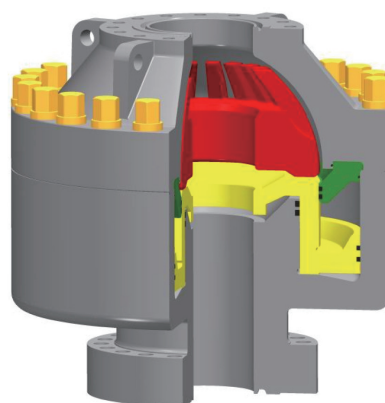
### 1 Annular BOP

#### Technical features

- Adopts sphere rubber core or tapering core structure.
- The top and bottom connection is flange or thread.



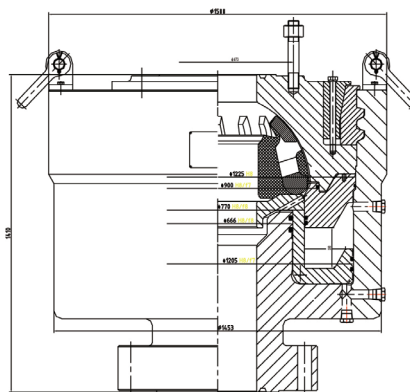
blowout preventer



Annular blowout preventer

#### Technical parameter

- Hydraulic Pressure: 8.4 ~ 10.5MPa.
- Hydraulic connection: NPT1.
- A Media: Oil gas & drilling fluid containing H2S.
- Working temperature: -29 ~ 121 °C.



High pressure annular blowout preventer

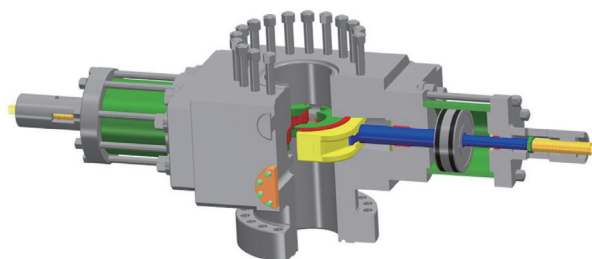
## 2 Ram Blowout Preventer

### Technical features

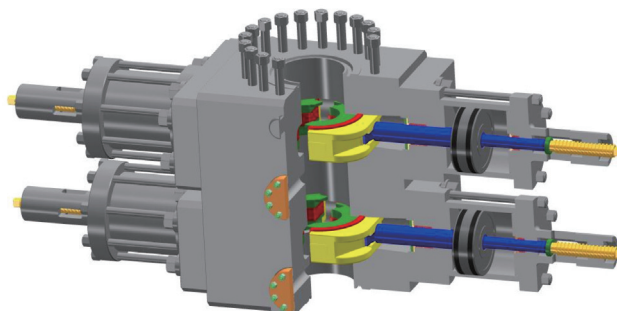
- Hydraulically/manual operated locking mechanism.
- Secondary seal.
- Flat and side door structure or hydraulic control type flat door structure.
- The side door and shell are connected by triple hinges.
- Open and close the valve in sequence by using pressure bar ( C type ram BOP )
- The guide frame is set at the end of the side door, when the side door is opened, the ram can be pulled out along the guide rail and the ram can be replaced(D type ram BOP)
- Pistons indicator.
- Concealed oil way.
- The cavity of ram is ellipse.

### Technical parameters

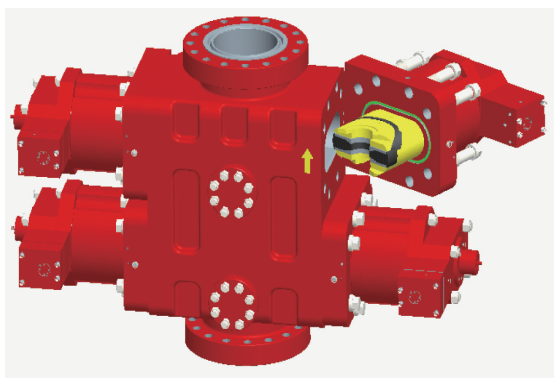
- Hydraulic Pressure: 1200 ~ 1500PSI(8.4 ~ 10.5MPa)
- Hydraulic connection: NPT1
- Working temperature: -29℃ ~ 121℃
- Media: Oil gas & drilling fluid containing H<sub>2</sub>S
- Ram size and type : series size pipe ram, reducing ram and cutter ram



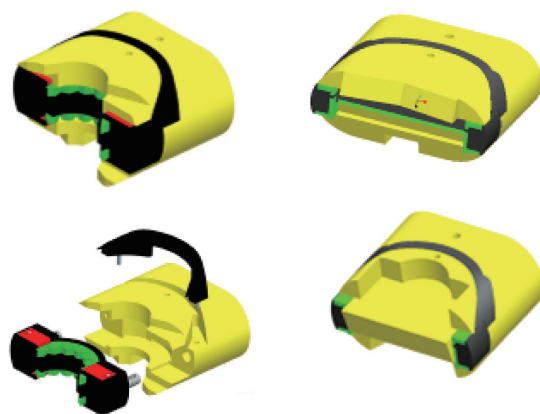
Single-Ram Blowout Preventer



Double-Ram Blowout Preventer



13 5/8-5000PSI Double ram BOP



Reducer and cutter ram

### 3 Drilling Spool

