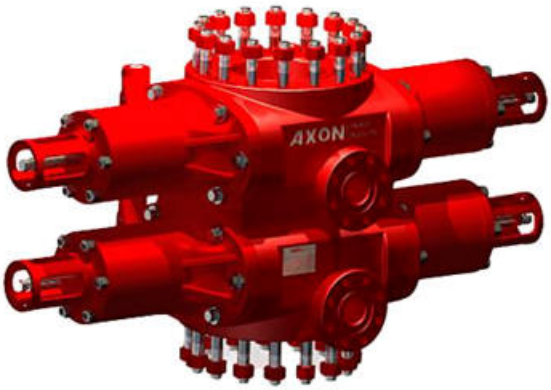
FALIZ PAJOUHESH PARS CO.





F12.A

BLOWOUT PREVENTER

B.O.P is a specialized valve or similar mechanical device, used to seal, control and monitor oil and gas wells to prevent blowouts, the uncontrolled release of crude oil or natural gas from a well. They are usually installed in stacks of other valves.

Type:

1. Annular BOP: it is a large circular valve that can control the wellbore fluid. It consists of a rounded elastomer with reinforced steel segments. The rubber will deform radially inwards and seals. It can close around different shapes such as square, hexagonal, etc. The major part of the annular BOP is the sealing element. So if the fluid pressure changes the closing mechanism would be actuated, the piston will receive the hydraulic pressure which would cause it to move upwards and thus forcing the sealing element and it will be extended to the wellbore around the drill string. The steel segment will close over the rubber so that it can prevent the excessive partial close over the rubber in order to prevent the excessive extrusion when sealing under high pressure.

2. Ram BOP: it is a valve that uses a pair of opposing pistons and a steel RAM block. The RAM blocks extend through a guide chamber of the BOP housing and it will extend towards the center of the BOP wellbore to halt the returning flow, it will open to permit the flow. So in the case if there is any change in the fluid pressure the steel rams would shut with the help of hydraulic pressure with great force. Single RAM; Double RAM.

Size:

1"	1.250" (1 1/4)	1.500" (1 1/2)	1.750" (1 3/4)	1.870" (1 7/8)	2.120"	2.750"

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