



## PUMP-OFF BIT SUB

### INNOVATION REVEALED

The Magnum Pump-Off Bit Sub is used to drill composite bridge plugs or other down-hole items. This tool has a one-way check valve in the lower portion of the tool. After completing the drilling/milling of the down-hole item, a ball is then dropped from surface and pumped to a ball seat in the bit sub. After pressure is applied, the piston is sheared, travels downward releasing the lower half of the bit sub leaving the well open-ended ready for production.

### Features

- Uses 1.25" chrome balls
- Shear screws pressure setting
- Pressure rated for 10,000 psi
- Adapts to any bit or mill
- Ball must be dropped to separate tool
- Anti-Rotation Lugs
- Economical, Simple, Safe and Reliable

### OPERATION

The Magnum Pump-Off Bit Sub allows the tubing to be open-ended after the drilling or milling operation. The Magnum Pump-Off Bit Sub is run in conjunction with a bit or mill and run to bottom of the well. After the drilling or milling operation is complete, the tubing is raised off bottom and a 1.250" chrome ball bearing is dropped from surface. After allowing the ball to properly seat in the tool, pump pressure is applied to the 1.250" chrome ball to ensure seating procedure. Once downward pressure is applied, pins are sheared shifting the piston, releasing the lower half of the bit sub into the rat hole, which opens tubing for production.

Part Number	Top Connection inch (mm)	Bottom Connection Inch (mm)	Max O.D. inch (mm)	Min I.D. Working I.D. inch (mm)	Min I.D. After Release inch (mm)	Length inch (mm)	Weight lbs (kg)	Maximum Shear Pressure
PBSA.238.125B	2-3/8 8RD (60.0)	2-3/8 API REGULAR (60.0)	3.060 (77.7)	0.750 (19.1)	1.781 (45.2)	17.060 (433.3)	28 (12.7)	3,600 PSI (24.8 MPa)
PBSA.278.125B	2-7/8 8RD (73.0)	3.670 (93.2)	3.670 (93.2)		2.125 (54.0)	18.130 (460.5)	34 (15.4)	

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