

# Single Cycle Ball Valve



## Description

The Single Cycle Ball Valve is an annular pressure-controlled ball valve and is designed to be used during simple cased hole testing and perforating operations, where only one flowing and one shut-in phase is required.

The Single Cycle Ball Valve is operated by a differential piston, controlled by annulus pressure. Annulus hydrostatic pressure at tool depth, plus desired operating pressure, is calculated prior to the Ball Valve being run downhole to ensure the correct selection of rupture discs.

The Single Cycle Ball Valve is run in the hole in either the "open" or "closed" position, depending on operational requirements. When the tool is required to function, pressure is applied to the corresponding rupture disc which will rupture causing the tool to cycle.

The Single Cycle Ball Valve is fully-balanced to tubing pressure and will remain in the position to which it was last cycled. By having this ability, the pressure on the annulus can be decreased or returned to hydrostatic.

The Single Cycle Ball Valve can be run in conjunction with other annular pressure operated downhole tools and has only to be setup to operate at the customer's required pressures.

### PRIMARY USES

- Fluid Loss Control
- Surge Tool
- Safety Valve

## Operating Specification

|                   |                  |                    |
|-------------------|------------------|--------------------|
| NOMINAL TOOL SIZE | OD               | 5.00 in.           |
|                   | ID               | 2.25 in.           |
|                   | Length           | 68.30 in.          |
| INTERNAL PRESSURE | 10,000 psi       |                    |
| PRESSURE RATING   | W.P.             | 15,000 psi         |
| TENSILE STRENGTH  | 380,000 lbs.     |                    |
| MAX. DIFFERENTIAL | Opening Pressure | 5,000 psi.         |
|                   | Connections      | 3-1/2 in. API I.F. |

