



How it Works - Bottom Loader

The VP Series pumps are float actuated, fully automatic, self-regulating pneumatic borehole pumps that require no external form of control.

Description

- | | |
|----------------------|---------------------------------|
| 1) Strainer | 6) Rocker Mechanism |
| 2) Inlet Check Valve | 7) Air Inlet Valve |
| 3) Air Exhaust | 8) Discharge Port |
| 4) Float | 9) Discharge Fitting |
| 5) Float Stop | 10) Spring on Actuator Rod Boss |

- Liquid enters the pump via the strainer (1) and inlet check valve (2)
- Air trapped within the pump escapes through the air exhaust (3)
- The float (4) rises as the liquid enters and when it gets to the top of its travel (5), it trips the rocker mechanism (6)
- The exhaust valve (3) closes
- The air inlet valve (7) opens allowing compressed air into the pump
- Compressed air closes the bottom check valve (2)
- Liquid within the pump is discharged from the pump through the discharge port (8) and up the central discharge tube
- Liquid passes the top check valve (enclosed in head) and passes through riser (9)
- Float descends as liquid is discharged
- Float pulls the rocker mechanism back when the spring (10) is compressed.
- The air inlet closes, air exhaust opens
- Compressed air trapped within the pump can now escape to atmosphere via the exhaust valve (3)
- The pump continues to cycle in this way.

Sold By:

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