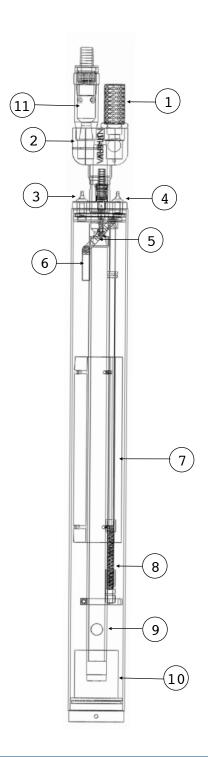
VP Series Environmental Pumps



How it Works - Top 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
- 2) Inlet /Outlet valve assembly
- 3) Air Inlet Valve
- 4) Exhaust Valve
- 5) Rocker Mechanism
- 6) Counter Weight

- 7) Float
- 8) Spring on Actuator Rod Boss
- 9) Access Port to Discharge Tube
- 10) Bottom Plug
- 11) Top Check Valve
- Liquid enters the pump via the strainer (1) and inlet / outlet valve assembly (2)
- Air trapped within the pump escapes through the air exhaust (4)
- The float (7) rises as the liquid enters and when it gets to the top of its travel it trips the rocker mechanism (5)
- The exhaust valve (4) closes
- The air inlet valve (3) opens allowing compressed air into the pump
- Compressed air closes the inlet/outlet valve assembly (2)
- Liquid within the pump is discharged from the pump through the discharge port (9) and up the central discharge tube
- Liquid passes the top check valve (11)
- Float descends as liquid is discharged
- Float pulls the rocker mechanism back when the spring (8) 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:

Viridian America Environmental Pumps

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