



## **Blatypus & Blatymini Pumps For Groundwater Purging and Sampling**

**BESST, Inc.**



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# BLATYPUS PUMP

The Only Bladderless Bladder Pump Species: *Bladderensis Obsoletis*



The Blatypus Pump has no internal bladder, but functions like a bladder pump. The Blatypus eliminates purging and sampling problems associated with tearing and leaking bladders as well as limited lift capacity issues with traditional bladder pumps.

With durable fittings, sturdy design, and low cost, the Blatypus is the next generation in low-flow submersible pump technology.

## Specifications

- No Bladder
- Shallow and Deep Lift Capacity (to 3,300 ft. when using Nylon tubing)
- 250 ml or 500 ml Chamber
- Multiple Controller Options (BESST, QED, Solinst, Geotech, and others)
- Variable Tubing Configurations
- Immediate Lift Pressure Ramp-Up
- 30 Warranty against manufacturer's defects

## Dimension options

- 18" L x 1.75 W – 250 ml Chamber (pictured)
- 23" L x 1.75 W – 500 ml Chamber
- Custom Sizes Available



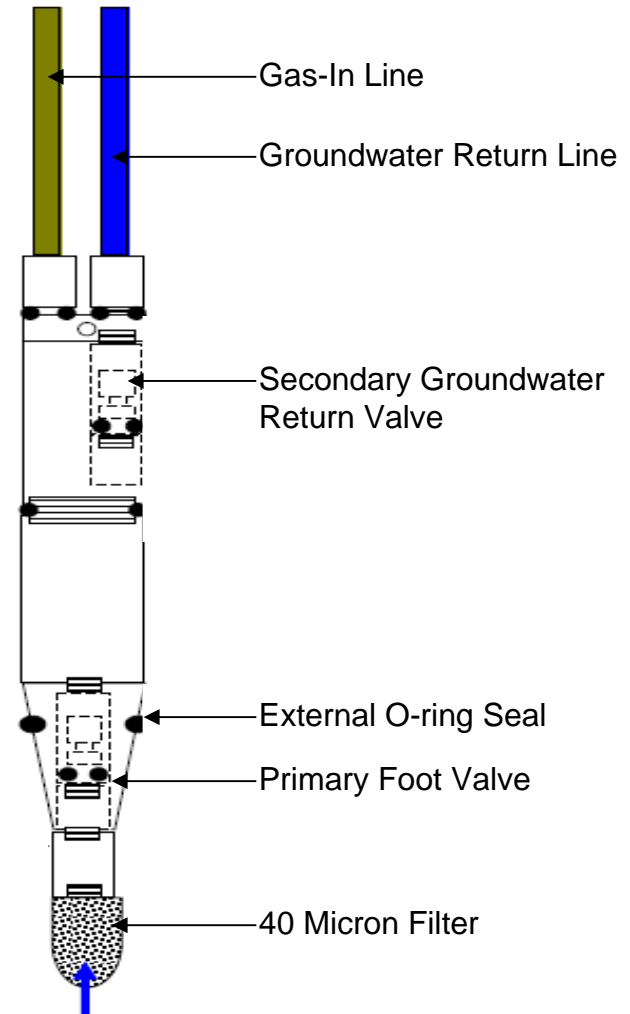
# BESST INC.

GLOBAL SUBSURFACE  
TECHNOLOGIES

## Blatymini Pump Components

### Blatymini:

- Outside Diameter:  $\frac{3}{4}$ " to  $\frac{7}{8}$ " OD depending on model (19 to 23mm).
- Length: 8-inches (200 mm).
- Has a lift capability of 3,300 feet (1 km when using Nylon tubing)
- Can be used to develop and redevelop well-screen zone at any time



# Blatypus & Blatymini Sampling Setup and Timer Control Unit



**BESST provides a Control Box timer unit for sampling Blatypus & Blatymini wells.**

\*The control box is set up between the nitrogen or air compressor and the completed well cap, which allows quick attachment to the air-in line of the pump.

\*The control box can be set to a specific purge and recharge cycle to collect samples over a longer period of time, or set to a continuous purge cycle to develop the well.

\*The BESST control box allows for automated well development and sampling with a "walk away" function



Can use any  
compressed gas source





# Blatypus & Blatymini Pump: Conceptual Operation

1. Compressed gas combined with control timer repeatedly moves groundwater up and down between two lines (C). C1 represents a high permeability/fast-recharge condition, and C2 represents a low permeability/slow-recharge condition.
2. BESST's proprietary valve system draws fresh water into chamber during the recharge cycle and discharges that water during the purge cycle.
3. Groundwater incrementally fills sample return line until water reaches the ground surface.
4. The water interface repeatedly filling the the gas-in line never becomes part of the sample stream. No gas comes into contact with the groundwater sample.

