

- **Controlled discharge of air from the borehole riser at pump startup**
- **Dampens surge pressures upon pump startup**
- **Provides full vacuum protection when the pump stops and the borehole column drains**
- **Insect screen for environmental protection**



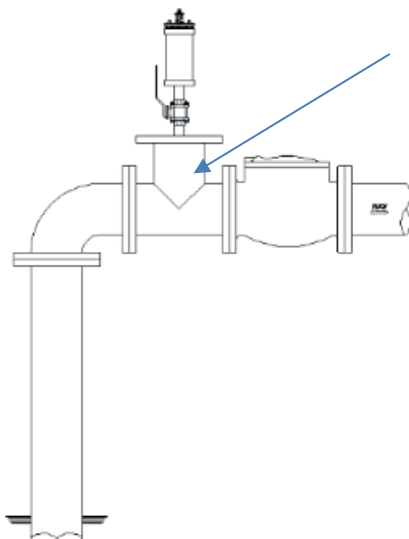
▶ Function and Installation

Cla-Val NUVENT Model AQUA-70-516B is a compact, triple function air valve specifically designed for borehole applications. The Anti-Slam feature effectively controls the air discharge at pump start up thereby eliminating the potentially devastating effects of water hammer. Any entrapped air will be released through the small orifice, during the operation cycle of the borehole pump. When the pump stops, the AQUA-70-516B will immediately allow air back into the riser, preventing the riser from collapsing due to potential vacuum conditions. A conventional air valve is not suitable for this application as it will either induce water hammer on closure of the large orifice or not close at all due to the high velocity of the water.

▶ Weights and Dimensions

Size (inches)	Height (mm)	Diameter (mm)	Weight (Kg)	Max Riser Diameter (mm)
1"	323	100	4	200
2"	348	130	7	400

▶ Typical installation



Recommended air accumulator
min 0.5 x diameter of riser main.

▶ Materials Of Construction

- **Body:** Stainless Steel, Grade 304,316
- **Seat:** EPDM
- **Floats:** H.D.P.E
- **Gaskets:** NBR

▶ Technical Specifications

- **Medium:** Freshwater / Potable Water
- **Operating temperatures:** 0°C to 80°C
- **Operating pressures:** 0.5 - 25 bar
0.5 - 40 bar
0.5 - 64 bar*
0.5 - 100 bar*
- **End Connection:** BSP Male / *Flanged