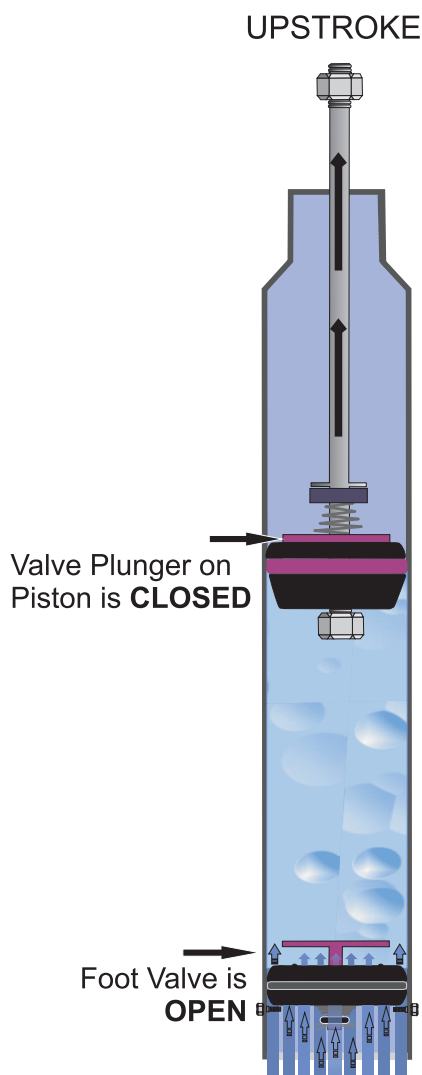


How a JOOSTE CYLINDER works

- The Jooste Cylinder 'operates' as a positive displacement pump (p.d. pump) and cannot operate against a closed valve.
- The cylinder consists of a stainless steel tube, a rod fitted in the tube with a piston and a unique Jooste foot valve.
- The rod is connected to the windmill gearbox by means of several 3m rods. The cylinder is manufactured with a threaded socket and is connected to the rising main which carries the water to the surface.
- The piston moves up and down with the reciprocating action of the windmill.
- The piston and the foot valve are fitted with valves.



- On the **upward stroke** the piston valve closes, the foot valve opens and the tube is filled with water.

- On the **downward stroke** the foot valve closes, the piston valve opens and the water in the tube is displaced.

- This process is repeated and the water is moved to the surface.

