

Description

Hydraulic Ram Pump

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The ram pump is not a normal mechanically-operated pump. A column of water in the supply (drive) pipe from a header tank, moving at low velocity, is similar to a 'plunger'. The energy in the plunger forces water from the supply into a delivery pipe. The Hydraulic Ram Pump uses the water hammer effect, where the momentum of a column of moving water in a pipe causes the water hammer. This exchanges the momentum of a large amount of water into energy that pumps a smaller amount of water up a hill or gradient. The apparatus has three main parts: the header tank, the pump and the interconnecting pipe work. The header tank mounts to a suitable wall.

The pump has:

- A supply pipe fitted with an inner and outer valve,
- An air vessel to reduce hydraulic shock, and
- A delivery section.

Didac Scientific Pvt. Ltd,
Martinfield Business Centre, 108
Martinfield, Welwyn Garden City ,
United Kingdom

Direct Contact Details 

sales@didacscientific.co.uk
 www.didacscientific.co.uk/