



THE LAB EQUIPMENT

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**Product Name :**

Hydraulic Ram Pump

**Product Code :**

SLE/EFM/24



## Description :

- The ram pump is not a normal mechanically-operated pump.
- This changes the pump's cycle times.
- A supply pipe fitted with an inner and outer valve.
- An air vessel to reduce hydraulic shock.
- The outer valve has a weight platform, for loading with the weights provided.
- A column of water in the supply 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.
- 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:

- Header tank
- Pump and the interconnecting pipe work.
- The header tank mounts to a suitable wall.