MH 05.1 - VISUALIZATION NPSH EQUIPMENT

Cavitation is produced when a liquid that is being pumped loses pressure and matches the level at which vapour is generated at the same temperature the pump is operated. At that moment, liquid turns into vapour, giving rise to vapour locks or vacuum pockets that are pushed into other areas with a higher pressure. Very fast condensation takes place creating short-lived excess of pressure in very small places.

The outcome is strong vibration of the device, rust, parts of the metal being chipped off and a sudden loss of head, all of which interferes with the performance of the machine.

The MH 05.1 VISUALIZATION NPSH equipment has been designed to clearly observe this phenomenon in real time, as it takes place inside the impeller of the pump.

A stroboscope is placed in front of the cut out pump and its frecuency is adjusted to the spinning speed of the pump. This way we can observe the formation of bubbles inside the impeller as if it were still, providing a superb experience.

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MH 05.1 - VISUALIZATION NPSH EQUIPMENT

LEARNING OBJECTIVES

- Obteining the curve:
  - Height- flow.
  - NPSH - pump flow.

TECHNICAL DATA

- Stealess steel empty tank.
- Pump with transparent front that allows visualization of the pump impeller during operation.
- Vacuum pump.
- Stroboscope.
- Vacuometer.
- Aluminium structure.

REQUIREMENTS

- Power supply: 230W/50Hz