



Features:

- Metering with a multi-head diaphragm pump
- Stroke individually adjustable for each head

Multi-head diaphragm pumps are used for metering in many process engineering areas. In food technology, for example, multi-head diaphragm pumps enable the precise observation of mixing ratios in order to ensure consistent high quality of the products. In addition, diaphragm pumps are leak-free and thus prevent germs from entering the piping system. This ensures that the high hygiene requirements that apply in food technology are observed.

Tesca Multi-Head Diaphragm Pump Test Apparatus has three pump heads. Each pump head conveys water from the feed tank into a tank with a scale. The common stroke rate of the three pump heads is set at the switch box. The stroke of each pump head is set directly at the pump. Three overflow valves enable the user to set a counter pressure for each pump head. Manometers indicate the pressures on the intake and delivery side of each pump head. This enables students to examine the effect of the counter pressure on the flow rate and the mixing ratio. A stopwatch for the determination of the flow rate using the scaled tanks is included in the scope of delivery.

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tescaglobal.com

Specifications:

1. Examination of a multi-head diaphragm pump
2. Diaphragm pump with 3 heads
3. Common stroke rate adjustable for all 3 heads
4. Stroke individually adjustable for each head
5. 3 overflow valves to set the counter pressure
6. 3 scaled tanks to determine the flow rate
7. 6 manometers to measure the pressure on the intake and delivery side
8. 1 feed tank

Technical Specifications:

Pump

- Max. head: each approx. 100m
- Max. suction head: each approx. 3m
- Max. stroke: each approx. 6mm
- Flow rate: 3x 0...18L/h

Tanks

- Tanks with scale: each 5L
- Feed tank: 60L
- 3 overflow valves
- Adjustable pressure range: each 2...6bar
- Measuring ranges
- Pressure (delivery side): 3x 0...10bar
- Pressure (intake side): 3x -1...0bar
- Stroke rate: 1x 0...100min⁻¹
- Level 3x 0...20cm

Experiments:

- Familiarization with the basic principle of a multi-head diaphragm pump
- Flow rate and mixing ratio depending on
 - ♦ The stroke
 - ♦ The stroke rate
 - ♦ The counter pressure

Requirements:

- Mains Input: 220 – 240V AC @ 50Hz