

Medical Flowmeter



Registered No. 325327



Rotameters or variable area flow Meters. These instruments are vital in all situations where the rate of flow of liquid or gas inside a pipeline or tubing is to be measured with a high degree of accuracy. Medical Rotameters give a highly accurate and reliable indication of gas flow rates in anesthesia machines.

For medical use flow meters (in anesthesia machines), the **uniform specification** provided is 100 cc to 8,000 cc per minute for Oxygen and 200 cc to 12,000 cc per minute for Nitrous Oxide. Assumed temperature for use of the machine is 20 degrees Celsius, and pressure of 60 PSI. End connections are three eighths inch UNF for Oxygen and half inch UNF for Nitrous Oxide.

Borosilicate glass tubes are ground and polished to a **high precision internal taper**. A float is prepared using anodized aluminium. The tube is then calibrated, using a standard precision master. Markings are made on the glass surface of the tube against this master. These are then fused on the glass surface, becoming permanent in the process of annealing in an electric furnace. The markings on the tubes are then re-checked using another standard master. Besides providing calibrated meter tubes, the instrument set is also provided in an elegant, anodized aluminium / powder-coated frame. A luminous reading plate is also provided.

A special feature of our process is the possibility of giving an **Expanded Scale** at any desired range of flow, within the specific flow range. Etching and markings on the metering glass tubes are also made using ceramic-based colours.

The float is of the **Rotating type**, which is superior to the non-rotating ones. Reading is from the top level of the float. (Non-rotating floats may sometimes get stuck somewhere in the metering tube due to accidental ingress of tiny particles of dirt, or for any other reason, and this will usually remain unnoticed. This may mislead the operator, resulting in serious consequences. A rotating type of float will stop rotating in such a situation, thereby inviting the operator's attention to the improper functioning of the instrument.)

The **pipeline connections** are of the standard screwed type. Tubes are fitted with leak proof Neoprene Rubber O-rings.

The **gaskets** are made of moulded Neoprene rubber. The **end stops** are made from plastic.

The manufactured flow meters conform to Indian Standards specifications for Continuous Flow Inhalation Anaesthetic Apparatus (Anesthetic Machines) for Use with Humans, i.e. **ISO 5358 - 1980**.

We provide both the pair of tubes (for Oxygen, Nitrous Oxide) without any mounting, as well as a mounted set.



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