

# Flowmeter

There are different designs of the Flow Meter. It is also available as an anemometer and can be used in a variety of areas. There are thus some sectors, particularly in the industrial field, where flow measurement plays an important role. In addition to duct measurement, these also include outlet measurement and filter measurement.

Whether you use a vane anemometer or a volume flow hood as a flow meter is dependent on the conditions. It is all the more important for you to have a look at the individual instruments for flow measurement and to decide which of the models best meets your expectations. We are the leading Flowmeter supplier in India.



Allied Tools Corporation Make Flow Meter are intended for measuring flow of electrically conductive liquids in closed pipe lines where the magnetic flux permeates the entire cross sectional area of the liquids flow. Flow Meter measure electromotive forces to determine liquids velocity using Faraday's law of electromagnetic induction and compute the flow rate using equation of conductive liquids having minimum conductivity of 5 micro Siemens / cm and are relatively immune to the effects of temperature , pressure , viscosity & density of the flowing liquid.

Working Principle:

This is working on the principal of faraday's law which states that when a conductor moves through a magnetic field of a given strength a voltage is produced in the conductor and proportion to the relative velocity between the conductor and the magnetic field.

Technical Detail:

- Nominal Dia (mm) : 15 to 600NB
- Material of Construction : MS, SS 304, SS 316 & SS 316L
- Electrode Material : SS 316, SS 316L, Hastelloy 'c', & Tantalum
- Flow Tube Material : SS 316
- End Connection : Flange/Wafer/TC END
- Flange- Standard : ANSI B 16.5 150 #RF / 300 # RF
- Measuring Range : 0.5 m/sec for Minimum & 5m/sec for Maximum
- FSD Optional:  $\pm 0.5\%$  FSD
- Power Supply : 230 VAC, 110 VAC & 24 VDC
- Output : Std. 4 – 20 mA
- Protection Class for Sensor : IP 65
- Protection Class for Transmitter : IP 65
- Cable Length for Remote : 10 meters
- Installation: Inline Flange Type.

The Flow Meter Is A Great Help In These Areas:

- Duct measurements
- Outlet measurements
- Comfort level measurements
- Filter measurements

SALIENT FEATURES:-

- Based on faraday's law of Electromagnetic Induction
- Suitable for pipe sizes of diameters 10 mm to 600mm
- Coil Assembly in hermetically sealed welded construction
- Choice of PTFE / Neoprene rubber / Polyurethane liners
- Integral or remote transmitter
- Field Interchangeable electronics
- Optional LED display for flow rate or Totalizer indication in engineering units.
- No pressure loss
- Absolute zero stability and noise elimination.
- Measurement independent of liquid properties.
- Display of flow rate directly in user specified engineering units Negligible pressure loss
- Maintenance free design due to absence of any moving parts.