4 Natural Gas Flow Meter Types

#1 Direct Mass Flow Meters
- Coriolis
- Thermal Mass Flow Meter

A mass flow meter determines the gas mass flow rate directly.

#2 Positive Displacement (PD) Meters
- Diaphragm
- Rotary vane
- Reciprocating or oscillating piston
- Gear
- Nutating disk

A positive displacement meter requires fluid to displace components mechanically and measure volumetric flow at the operating temperature and pressure.

#3 Velocity Meters
- Turbine Meter
- Ultrasonic
- Vortex

In a velocity meter the medium passing through the meter determines the measurement.

#4 Differential Pressure (Meters)
- Orifice Plates
- Flow Nozzles
- Venturi Tubes
- Averaging Pitot Tubes

A differential meter ($\Delta P$) calculates flow by measuring the pressure drop over an obstruction inserted in the flow path.

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