

Natural Gas Flow Meter

Meter Styles & Meter Types

1. Differential pressure (ΔP)—orifice plates, pitot, Venturi tubes
2. Motion mechanics—Coriolis meter
3. Positive displacement (PD meters)—diaphragm and rotary
4. Thermal dispersion—thermal mass flow meter
5. Variable area meter—rotameter
6. Velocity—turbine, ultrasonic, and vortex

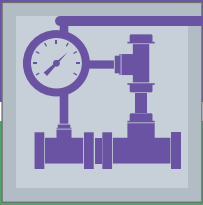


Custody Transfer Meters

1. Coriolis
2. Diaphragm
3. Differential pressure (ΔP)
4. Rotary meter
5. Turbine meter
6. Ultrasonic flowmeters
7. Vortex (approved-rare use)

Industrial Meters

1. **Rotameter**
2. **Thermal mass flow meter**
3. **Vortex**



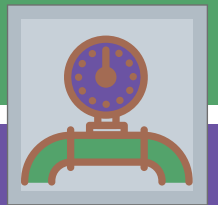
Mass Flow Vs. Volumetric Flow

Mass Flow

1. **Coriolis**
2. **Thermal mass flow meter**

Volumetric Flow

1. Diaphragm
2. Differential pressure (ΔP)
3. Rotameter
4. Rotary meter
5. Turbine meter
6. Ultrasonic flowmeters
7. Vortex



New Vs. Traditional Technology

New

1. Coriolis
2. Thermal mass flow meter
3. Ultrasonic flowmeters
4. Vortex

Traditional

1. Differential pressure (ΔP)
2. Diaphragm meter
3. Rotameter
4. Rotary meter
5. Turbine meter