



Koons Gas Measurement Gas Meters



Council Presentation
April 29, 2025



Unique Features of Gas Meters



American AC-250 Diaphragm Residential Meter

- Residential Use:** Ideal for homes.
- Durability:** One-piece cast aluminum body.
- Accuracy:** Long-term precision.
- Temperature Compensation:** Available.
- Compatibility:** Supports AMR systems.



American AL-800 Diaphragm Commercial/Industrial Meter

- Commercial & Industrial Use:** Suited for larger applications.
- Durability:** Die-cast aluminum case, self-lubricating bushings.
- Accuracy:** Positive displacement.
- Temperature Compensation:** Operates from -30°F to 140°F.
- Compatibility:** Supports AMR/AMI systems, includes tamper seals.



Critical Roles of Gas Meters in Natural Gas Distribution

Residential Gas Meters

1. **Accurate Measurement:** Residential gas meters measure the exact amount of gas consumed by a household, ensuring accurate billing based on actual usage.
2. **Leak Detection:** They help monitor irregularities that may indicate potential gas leaks, enhancing safety and preventing hazardous situations.
3. **Energy Management:** By providing real-time tracking of gas consumption, they support efficient home energy management.
4. **Public Safety:** Ensuring gas consumption is accurately measured and monitored helps prevent accidents and promotes public safety.
5. **Compliance:** Residential gas meters comply with regulatory standards and safety codes to ensure the safe distribution of natural gas.
6. **Components:** Key components include the meter body, diaphragm, measuring chamber, internal valves, index, and inlet and outlet pipes.

Commercial Gas Meters

1. **High Accuracy:** Commercial gas meters, such as diaphragm, rotary, and turbine meters, are designed for high accuracy in measuring gas flow in various commercial applications.
2. **Pressure Regulation:** They often work in conjunction with regulating stations to adjust the pressure of gas flowing through the pipes before it reaches customers.
3. **Safety and Quality Control:** Regular monitoring and measurement of gas pressure and volume help prevent dangerous situations and ensure the quality of gas delivered.
4. **Usage Insights:** They provide detailed insights into consumer usage patterns, enabling companies to develop more efficient and cost-effective energy distribution models.
5. **Public Safety:** Ensuring accurate measurement and regulation of gas flow helps prevent accidents, ensuring the safety of commercial properties and the surrounding community.



Gas Meters



AL-800 Diaphragm Meter



American AC-250 Diaphragm



American AC-250 Diaphragm Meter & AL-800 Diaphragm Meter



The American AC-250 and AL-800 Diaphragm Meters by Koons Gas Measurements are essential for CC Gas's distribution network. The AC-250, designed for residential and small commercial applications, measures up to 250 SCFH at 10 PSIG, ensuring accurate flow, safety, and regulatory compliance. The AL-800, suited for larger commercial and industrial uses, measures up to 800 SCFH at 100 PSIG, delivering precise measurement, enhanced safety, and adherence to stringent regulatory standards. Both meters support remote reading through AMR/AMI compatibility, ensuring public safety, maintaining the integrity of gas distribution, and complying with regulatory standards.



Questions

