

# QK-G1,6/QK-G2,5/QK-G4

## Domestic Diaphragm Gas Meter



### Applications

**Media:** Natural gas, town gas, propane, butane, air

**Industry:** Gas supply

**Tasks:** Gas measurement at operating conditions

### Brief information

QK2000 series domestic diaphragm gas meter is new generation of products which organically combines our decades of meter manufacturing experience and advanced technology from Germany. It has high accuracy and Stable performance. diaphragm moves in measuring unit stress free without mechanical stops, which ensures low bearing load and quit operation. The rotating slide control K-System ensures high accuracy of measurement. Low flow resistance coefficient and impurities are insensitive for products .Besides, QK2000 series product has functions of high sensitivity , accurate measurement, stable performance, long lifetime and wide tolerance to different media.

**Operating principle:** Four measuring chambers are separated by synthetic diaphragms. The chambers are filled and emptied periodically, and the movement of the diaphragms is transferred via a gear to the crankshaft. This shaft moves the valves, which control the gas flow. The rotations of the gear are transferred via a magnetic coupling to the index.

### Safety Instruction for Transportation, Installation and Operation:

Operation:

No lying down, inversion or collision during transportation and storage. Ambient temperature  $-20^{\circ}\text{C}\sim+60^{\circ}\text{C}$ .

No corrosive media around.

Installation:

Off fire, rain, humidity, vibration, long-time direct sunshine. Lines attached to meter should be preferably installed indoors.

Connecting pipe off dust, water, leakage, etc.

Installed on end and follow arrow on end and follow arrow on the top of meter .

Torque should not exceed 80N.m

A gas valve which can shut down gas transmitting should be installed ahead of meter's inlet pipe.

No leakage between gas pipe and the meter. Input gas pressures should not exceed 50kpa.

Please switch off the valve when adjust gas pressure. No fire when checking leakage.

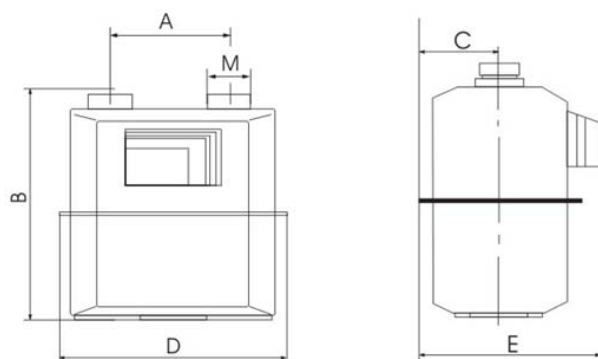
Only authorized people are allowed to operate the product.

Only qualified organizations are allowed to re-collect product that already passes lifetime.

## Main features

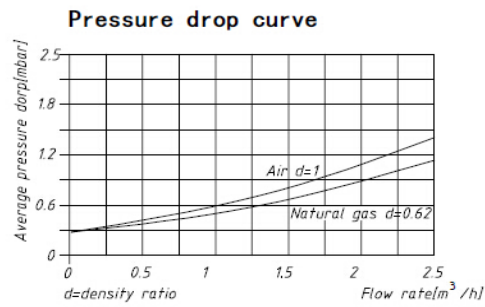
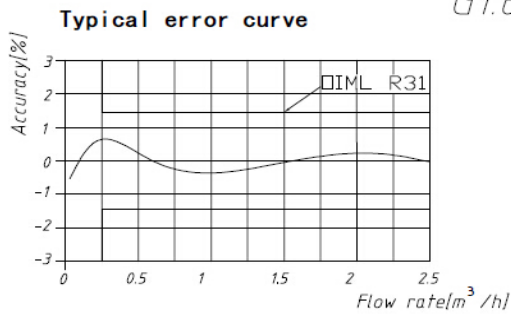
- Conform with GB/T6968-2011
- Conform with OIML R31-1995
- Cyclic volume:  
1.2 dm<sup>3</sup>
- Total pressure loss ≤ 200pa
- Flow rates;
- G1.6: 0.016m<sup>3</sup>/h to 2.5m<sup>3</sup>/h
- G2.5: 0.25m<sup>3</sup>/h to 4m<sup>3</sup>/h
- G4: 0.04m<sup>3</sup>/h to 6m<sup>3</sup>/h
- Working pressure 0.5~50kpa
- High accuracy and long-term stability
- Powder coated pale grey to RAL 7035
- Temperature range:  
working temperature: -10°C to +50°C  
Storage temperature: -20°C to +60°C

## Dimensions, flow rates, weights

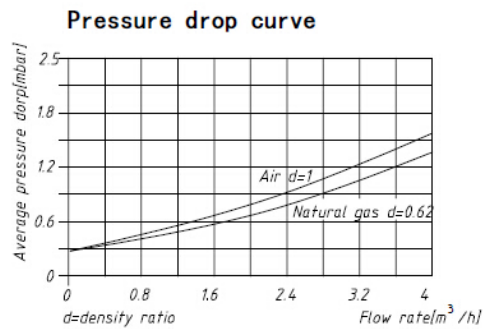
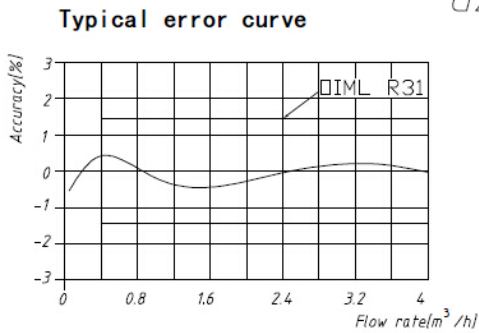


| Type | Qmax[m <sup>3</sup> /h] | Qmin[m <sup>3</sup> /h] | V<br>[dm <sup>3</sup> ] | Connection |            | Dimension (mm) |     |    |     |     | Weigh<br>t(kg) |
|------|-------------------------|-------------------------|-------------------------|------------|------------|----------------|-----|----|-----|-----|----------------|
|      |                         |                         |                         | DN         | Thread (M) | A              | B   | C  | D   | E   |                |
| G1.6 | 2.5                     | 0.016                   | 1.2                     | 20         | 30x2       | 130/110        | 221 | 67 | 204 | 162 | 1.9            |
|      |                         |                         |                         |            | 34x1.5     |                |     |    |     |     |                |
| G2.5 | 4                       | 0.025                   | 1.2                     | 20         | 30x2       | 130/110        | 221 | 67 | 204 | 162 | 1.9            |
|      |                         |                         |                         |            | 34x1.5     |                |     |    |     |     |                |
| G4   | 6                       | 0.040                   | 1.2                     | 20         | 30x2       | 130/110        | 221 | 67 | 204 | 162 | 1.9            |
|      |                         |                         |                         |            | 34x1.5     |                |     |    |     |     |                |

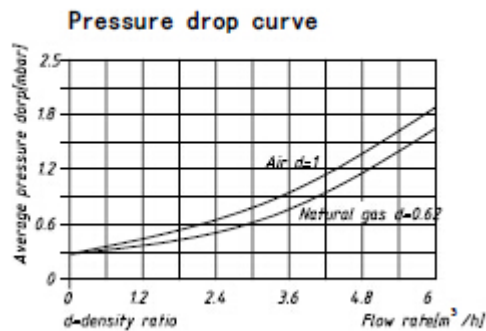
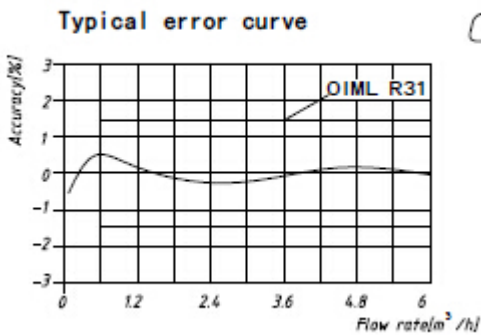
G1.6



G2.5



G4



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