Storage, Handling, and Installation instructions for G1.6 Diaphragm Gas Meter

Storage Instructions for G1.6 Diaphragm Gas Meters

Gas Meters should be stored in dry place and away from direct Sunlight & Rain

Do(s)		Don't(s)	
	**Keep maximum six layers on each pallet**		**Do not keep more than six layers on each pallet**
	**Always keep boxes with arrow pointing in upward direction**		**Do not keep boxes with arrow pointing in downward direction**
	**Keep single pallets on rack/floor**		**Do not stack pallets on each other**

Handling Instruction for G1.6 Diaphragm Gas Meters

1. Meters should always be shipped, stored, and installed in an upright position.

2. Each meter is shipped from the factory with dust caps covering the inlet and outlet openings. These caps should be left in place until installation or proof of the meter. When removing a meter from service, dust caps should be reinstalled to prevent dirt and other atmospheric contaminants from entering the meter.

Do(s)		Don't(s)	
	**Hand-over boxes carefully**		**Do not throw/drop the boxes**

Installation instructions for G1.6 Diaphragm Gas Meters

G1.6 diaphragm type gas meter manufactured by Raychem RPG Limited have threaded connections (male) fitted as per customer's requirements. Typically, these threaded connections are as per BS EN 1359:2017. The meter can be connected to upstream and downstream piping with these threaded connections by ensuring leak tight joint. Installation method varies as per actual site conditions.

General Instructions:

1. Each meter, whether inside or outside of a building, must be installed in a readily accessible location and be protected from corrosion and other damage. Avoid installing the meter in locations where the meter casing is in direct contact with soil or concrete walls. Alkali in concrete as well as other corrosive elements in soil can cause premature corrosion of the meter casing.

2. Each meter installed within a building must be located in a ventilated place and not less than 1 meter from any source of ignition or any source of heat, which might damage the meter.

3. It is required that the housing pipe connections to the meter's inlet and outlet be parallel and within the same plane.

4. It is recommended to use meter-fixing bracket to install these meters to have a rigid connection and to prevent the pipe stresses being transferred to the Gas Meter.

5. Put dust cap on meter whenever not in use condition / not installed.

6. Follow Safety guidelines as per relevant state / country legal norms

Before Startup:

1. Read the meter badge data regarding Maximum Allowable Operating Pressure and flow range to ensure that the installation conditions are always appropriate to meter specifications.

2. Sight across both swivel connections or test with a suitable bar to determine that they are nominally in the same plane and will not cause excessive stress/strain on the meter or piping when the connection nuts are tightened.

Startup:

1. Blow out the service lines before the meter is installed so that no dirt, debris, or liquids of any kind can be carried into the meter when the gas is flowing in the line.

2. Ensure the meter is in working condition by passing a small amount of air through the inlet before installation.

3. Secure a new rubber washer inside the slot provided to each swivel connection.

4. Ensure the direction of flow of gas by observing arrow direction marked on Gas meter

5. Support the meter so that inlet connections are against the connection washer and run the connection nuts down by hand tightening the inlet swivel cap. Pressurize the system, allowing air from inside the meter to be purged through the outlet.

6. Hands tighten the outlet swivel cap. Using a pipe wrench, in alternating fashion, tighten the nuts to an appropriate torque for the connection size. Do not apply torque more than 80 Nm while tightening the adaptor / fitting to Gas meter connection. Over tightening may result in damage to the rubber washer inside the swivel cap.

7. Before turning the gas on in a new installation, check the system downstream of the meter to be sure that all connections are made up and tight. Downstream valve, if any, must be closed.

8. To avoid high differential pressure across the meter, open the upstream and downstream valves slowly to prevent any pressure surges into or out of the meter. Do not overpressure the meter than maximum allowable pressure 0.5 bar

9. Each valve should be opened slightly for a few seconds and then slowly over a period of ten seconds or more turned to the 1/4 open position and then to the fully open position. Ensure gas flow should not exceed more than 2.5 m^3/ h

10. Always pressurize the meter with the inlet valve so that the meter runs forward. Locking off gas in a downstream section of a high-pressure system could damage a meter since the meter is fitted with a back Stop if the outlet valve from the meter is opened first.

11. After the meter has been pressurized, apply leak detecting liquid to the connections and check for leaks at Gas meter, Regulator & Adaptor etc.

Disposal of Gas Meter:

Material used is non- hazardous & can be recycled. Cut / remove the mechanical locking of the Meter, separate Metal, plastic parts & send it for recycling to the authorized agencies/recyclers as per relevant state/country legal norms.

In case of emergency / service, contact concerned authorized person / agency as follows:

Name	: Raychem RPG Pvt. Ltd.
Address	: Ramdev Industrial Hub, Survey No 75, Hissa No 2.3, Bapane Village, Malaji Pada, Naigaon East, Vasai, Paighar, Maharashtra 401208
Consumer Service Representative	: 02245745060
Email	: cic@raychemrpg.com

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