

# Gas Miser™ Model RP Demand Regulator (P/N 710288) Instructions

## Use and Care of the Gas Miser Model RP Demand Regulator

The Gas Miser Model RP Demand Regulator is designed for use with most MSA Calibration Gas supplied in the Model RP Calibration Cylinders. The Gas Miser Regulator has a delivery rate of 0.1 to 3.0 LPM and is designed to supply the required amount of calibration gas to any pumped instrument. No adjustments are necessary to obtain the correct instrument flow rate. Recommended operating temperature is 0°C to 40°C.

### ⚠ CAUTION

The Gas Miser Demand Regulator is a precision instrument. The Regulator should always be used and stored in a clean, dirt-, oil- and grease-free area.

Always use the Regulator with a recommended Calibration Gas Cylinder.

Inspect the Regulator and Calibration Gas Cylinder before each use.

Always use caution when using a Regulator and Calibration Cylinder; if you are not familiar with the proper use and handling of Regulators and pressurized Gas calibration Cylinders, contact someone who is knowledgeable.

Never repair the Regulator.

## Instructions

1. Unpack the Gas Miser Model RP Demand Regulator, inspect for damage and remove any caps or plugs.
2. Holding the Regulator, properly engage Regulator threads with Cylinder threads. Hand-tighten the Regulator to the Cylinder.

### ⚠ CAUTION

Use safety glasses when attaching or removing a Regulator to or from a high pressure cylinder.

Do not use wrenches or pliers to tighten the connection; otherwise, Regulator or Cylinder damage may occur.

3. After the Regulator is properly connected to the Calibration Cylinder, read the gauge on the side of the Regulator to verify that there is gas in the Calibration Cylinder. The Regulator and Calibration Gas are now ready for use.

### ⚠ CAUTION

Do not use the Regulator if it fails to properly engage with the Cylinder; otherwise, calibration gas leakage may result.

**NOTE:** If the Regulator is to remain attached to the Cylinder indefinitely, leak test the Regulator-to-Cylinder connection by lightly applying a soap and water solution completely around this connection. If bubbles form at the connection seal, a leak exists.

**NOTE:** If a leak is detected:

- a. Remove the Regulator from the Cylinder and dry completely.
  - b. Inspect the Cylinder threads and the Regulator threads and o-ring for dirt or contamination.
  - c. Clean if necessary.
  - d. Attach the Regulator and leak test again per Step 3:
4. Refer to instruction manual (supplied with the instrument) for the proper calibration procedure.

**NOTE:** Not recommended for use with chlorine or ammonia.