

CERTIFICATE OF ANALYSIS



ISO 9001:2015 CERTIFIED
 ISO 17034:2016 ACCREDITED
 ISO/IEC 17025:2017 ACCREDITED

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PO Number: 4502739927

Certification Date: 27-Jul-2020

Manufactured For:

MSA Safety Sales, LLC
 1000 Cranberry Woods Drive
 Cranberry Township PA 16066
 United States Of America

Customer Part No: 10048280

Cylinder Size: 34DAL

Cylinder Lot No: 239852

Expiration Date: Jul 2022

Component	Nominal	Accuracy	Analytical Method
HYDROGEN SULFIDE	20 PPM (vol)	+/- 10%	Automated Electrochemical Sensor
CARBON MONOXIDE	60 PPM (vol)	+/- 5%	Horiba CO Analyzer VIA-510_97KP6EHE
METHANE	29% LEL (1.45% vol)	+/- 5%	Mocon 9000 THC_0317DN0931
OXYGEN	15% (vol)	+/- 5%	Teledyne 3000M Series Percent Oxygen Analyzer
NITROGEN	BALANCE		

The mixture was manufactured or transfilled from a standard which has been gravimetrically blended with traceability through NIST to the International System of Units (SI) balance. Balances are calibrated by a certified third party with certified NIST weights and NIST test numbers. **NIST Number: BU70910-041220.** The uncertainty is expressed as an expanded uncertainty $U=ku_c$ with u_c determined by experiment and a coverage factor $k=2$. The certified value $\pm U$ is presented with a level of confidence of approximately 95%.

Quality Assurance Manager

Model RP Flow Control Regulator Instructions

Use and Care of the Model RP Regulator

The Model RP Regulator is designed for use with any MSA Calibration Gas supplied in the Model RP Calibration Cylinders.

The Model RP Regulator is a precision instrument. The Regulator should always be used and stored in a clean area free of dirt, oil and grease.

- 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 Model RP Regulator, inspect it 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/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 calibration use.

WARNING

Do not use the Regulator if it fails to properly engage with the Cylinder; otherwise, injury or death may occur.

NOTE: If the Regulator is to be permanently attached to the cylinder, 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.

If a leak is detected:

- a. Dry the connection to the Cylinder and remove the Regulator from the Cylinder.
 - b. Inspect the Cylinder threads, 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 instrument) for proper calibration procedure.

NOTE: This Regulator is compatible with all calibration gases supplied in MSA Model RP Calibration Cylinders. If the Regulator is used for AMMONIA or CHLORINE calibration gas, the supplied identification label must be affixed to the Regulator and the Regulator must be used for that gas only.

NOTE: When attaching the Flow Control Regulator to a Cylinder with a background gas of nitrogen, it is recommended that the Regulator valve be opened or "on" before attaching the Regulator to the Cylinder, which will allow a small amount of gas to be released. Once the Regulator is attached to the Cylinder, turn the ON/OFF knob to OFF.