

Marshall Excelsior

Gas Connections

MEGR-167CH/CW & MEGR-167CN GAS REGULATOR

Instruction Manual- Look Inside For:

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Marshall Excelsior Company

Marshall, MI 49068

269-789-6700

FAX 269-781-8340

www.marshallexcelsior.com



WARNING: These products contain a chemical known to the state of California to cause cancer and birth defects or reproductive harm

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ATTENTION:

The installation of these devices must be in accordance with NFPA standards No. 54 & 58, along with all federal, state, and local codes. All personnel installing these devices should be trained on the hazards associated with combustible gases and fluids. MEC assumes no responsibility from damage, injury, or death that may result from servicing, altering, or the improper installation of this regulator.

OPERATION:

The MEGR-167CH/CW & MEGR-167CN are high pressure (pounds to pounds), industrial gas regulators. They are designed to conform to UL Standard 144 for use with gas. The maximum supply pressure is 250 PSIG. The maximum output pressure is printed on the regulator nameplate. These regulators are not intended for use in low-pressure applications below 3 PSIG. Operating temperature ranges are between 0° and 160° F. The MEGR-167CH/CW regulators are field adjustable with a 5/16" wrench. The MEGR-167CN is factory preset and is not intended for field adjustment. This preset pressure is printed on the regulator nameplate.

NOTE: It is strongly recommended that a pressure measuring device be installed on the outlet of the regulator during adjustment to ensure that the regulator is not adjusted beyond the output pressure range listed on the regulator nameplate. The regulator should not be used to regulate pressure above what is recommended.

INSTALLATION:

Ensure all gas lines are free from dirt and scale before installation is made. Shut off the gas. The gas regulator can be mounted at any angle without affecting operation. The inlet and outlet ports for all of these gas regulators are 1/4" NPT.

Install the regulator as close as possible to the system that it is to supply. Avoid using undersized fittings that will limit the flow through the regulator and cause downstream pressure drop. Apply a minimum amount of pipe compound to the male threads of the inlet and outlet piping. The words "IN" and "OUT" are cast into the body of the regulator to indicate the direction of flow. The regulator must be oriented in the correct flow direction. Internal damage to the regulator may result from the regulator being installed backwards. The 1/4" NPT gauge port can also be used as an optional output port, but with decreased flow delivery.

Before putting the MEGR-167CH/CW regulators into service for the first time, relieve compression on the range spring by turning the adjustment assembly counter clockwise. (Since the MEGR-167CN is preset at the factory it cannot be adjusted in the field.) It is recommended that the gas supply be introduced slowly to the regulator. After gas is applied to the regulator, check installation to ensure that there is a bubble tight seal. This can be accomplished by using a leak detector or applying a small amount of soapy water at the connection points. To operate, turn the adjustment assembly slowly in a clockwise direction until the required downstream pressure is obtained. Turned in this direction, the range spring is compressed thus causing increased output pressure.

CAUTION: These gas regulators are non-relieving regulators and thus cannot exhaust excess pressure at the regulator. Use of a relief device upstream or downstream of these regulators is recommended in accordance with NFPA 58. In order to establish an accurate output pressure from the regulator, it will be necessary to cycle downstream flow or to set the regulator at a slight flow.

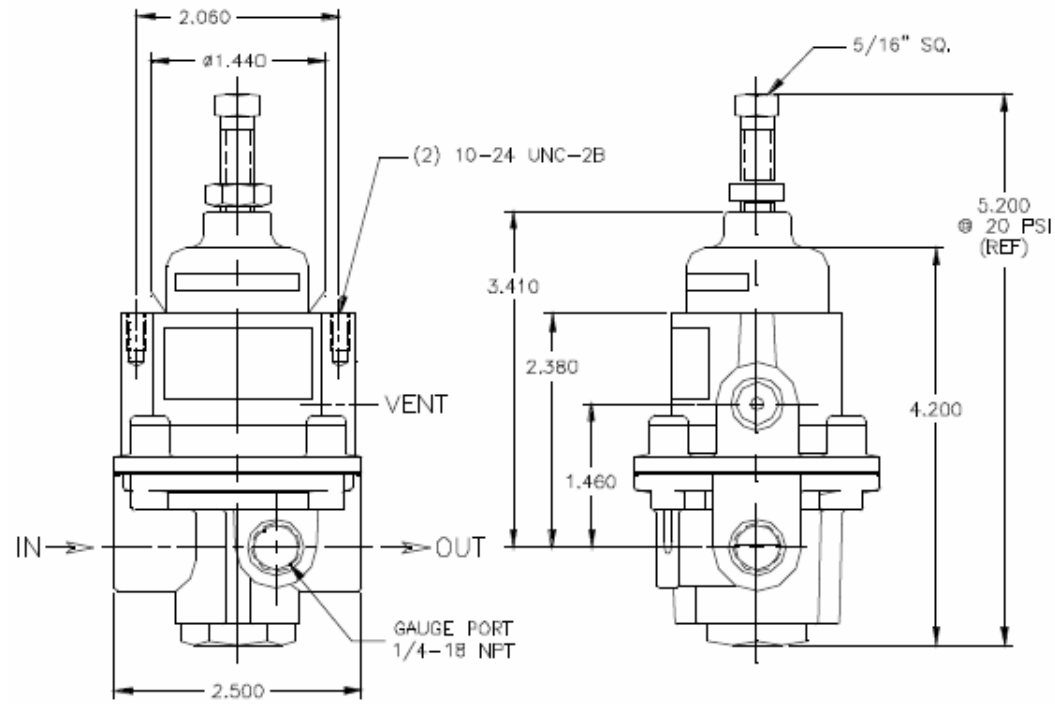
MAINTENANCE:

Because these regulators are assembled and tested at the factory to conform to UL Standard 144, any maintenance or repair should be in accordance with this listing as well as any other applicable regulations. Regulator parts showing wear should be replaced as necessary.

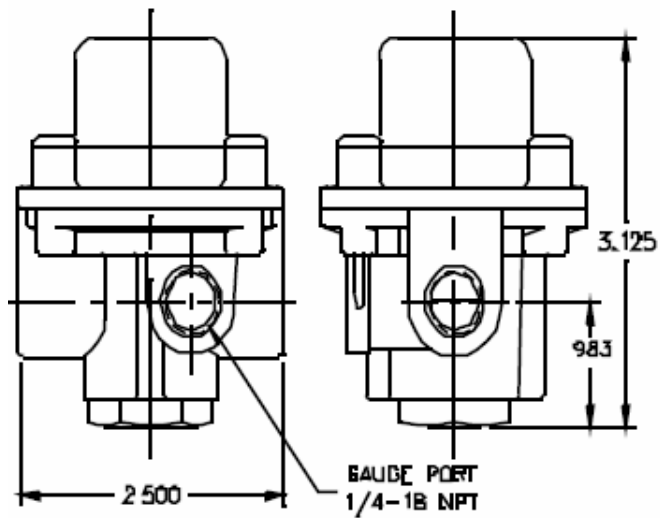
Ordering and Technical Information			Typical Vapor Capacity
Part Number	Adjustment Range*	Recommended Operating Range*	Propane Gas Capacity in BTU/HR**
MEGR-167CH	0-30 PSIG	3-30 PSIG	1,500,000
	0-60 PSIG	6-60 PSIG	2,150,000
	0-120 PSIG	12-120 PSIG	1,300,000
	0-10 PSIG	3-10 PSIG	700,000
MEGR-167CN	0-20 PSIG	2-20 PSIG	800,000
	20-40 PSIG	20-40 PSIG	2,150,000
	40-60 PSIG	40-60 PSIG	1,250,000

*Although the regulator can be shut off, the recommended operating ranges are between 10% and 100% of the adjustment range. Regulators should not be adjusted beyond 100% of the adjustment range.

** Typical Vapor Capacities are based on 100 PSIG inlet pressure, set point at 50% of output range with 20% droop.



MEGR-167CH



MEGR-167CN

Physical Data	
Part Number	Weight
MEGR-167CH	0.82 lbs
MEGR-167CN	0.69 lbs