

MEGR-164 GAS REGULATOR

Instruction Manual-Look Inside For:

Description
Installation
Operation
Maintenance
Parts Ordering



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ATTENTION:

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

OPERATION:

The MEGR-164 is a high capacity, pounds to pounds, industrial gas regulator. It is designed to conform to UL Standard 144 for use with LP Gas. The maximum supply pressure is 400 PSIG. The maximum output pressure is printed on the regulator nameplate. This regulator is not intended for use in pressure applications below 3 PSIG. The operating temperature range is -40° to +200° F.

INSTALLATION:

Ensure all gas lines are free from dirt and scale. Shut off the gas. The MEGR-164 can be mounted at any angle without affecting operation. Install the regulator as close as possible to the instrument 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 or internal damage to the regulator may occur. The two 1/4" NPT gauge ports marked "GA" can also be used as optional output ports, but with decreased flow delivery. Before putting the regulator into service for the first time, relieve compression on the range spring by turning the "T" handle counter clockwise. After gas is applied to the regulator, check installation to ensure that there is a leak tight seal. To operate, turn the "T" handle slowly in a clockwise direction until the required downstream pressure is obtained.

CAUTION:

The MEGR-164 is a non-relieving regulator and thus cannot exhaust excess pressure at the regulator. In order to establish an accurate output pressure it may be necessary to cycle the downstream flow or to set the regulator at a slight flow.

MAINTENANCE:

Because the MEGR-164 is 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. The procedure below describes how to disassemble the MEGR-164 for parts replacement and inspection. Assembly is the reverse of this procedure.

- 1. Turn the adjustment screw counterclockwise to remove spring tension.
- 2. Loosen the six build screws and separate the bonnet from the body.
- 3. Remove the spring guide and spring.

- 4. Unscrew the diaphragm assembly from the pintle assembly.
- 5. Loosen, by turning counterclockwise, and remove the O-Ring and bottom plug.
- 6. Remove the pintle spring and pintle assembly.

HIGH PRESSURE REGULATORS MEGR-164 SERIES

APPLICATION:

The MEGR-164 Series adjustable high-pressure regulators offer a wide selection of available pressure ranges. High pressure regulators are typically used to reduce tank pressure to an intermediate pressure for use by another regulator. They may be used as high pressure regulators on distribution systems when used in conjunction with first-stage downstream regulators.

When equipped with an integral relief valve (MEGR-164SR Series), the regulator may be used as a final-stage regulator on high pressure systems. It may also be used as a first-stage regulator when set at 10 PSIG (0,69 bar) or less. The 1/4"-inch FNPT tapped side outlet can be used to install a pressure gauge or a hydrostatic relief valve. This series contains brass materials that are <u>not</u> compatible with anhydrous ammonia service.



MEGR-164 Series

Part No.	Description	Outlet Pressure Setting, PSIG	Outlet Adjustment Range, PSIG	BTU/H * LPG @ 60 PSI Inlet	BTU/H * LPG @ 100 PSI Inlet
MEGR-164/33	1/2" FNPT x 1/2" FNPT Adjustable High Pressure Regulator	10	0-30	6,098,000	6,800,000
MEGR-164/35		20	0-30	6,400,000	8,335,000
MEGR-164/36		40	0-60	6,100,000	9,145,000
MEGR-164/222		50	0-125	4,900,000	7,225,000
MEGR-164SR/21	1/2" FNPT x 1/2" FNPT Adjustable High Pressure Regulator w/ Internal Relief Valve	10	0-15	4,675,000	7,825,000
MEGR-164SR/22		15	0-30	3,050,000	4,125,000
MEGR-164SR/23		20	0-30	3,405,000	4,755,000
MEGR-164-6/33	3/4" FNPT x 3/4" FNPT Adjustable High Pressure Regulator	10	0-30	9,150,000	10,875,000
MEGR-164-6/35		20	0-30	10,105,000	12,400,000
MEGR-164-6/36		40	0-60	9,960,000	13,415,000
MEGR-164-6/222		50	35-100	4,575,000	11,890,000

Note: 1" model also available (MEGR-164-8). Please contact factory for more information.

MEGR-164 SPECIFICATIONS:

Type: Adjustable/PSI

Max. Inlet Pressure: 250 PSI

Inlet Connection: 1/2" FNPT or 3/4" FNPT Outlet Connection: 1/2" FNPT or 3/4" FNPT

Exterior Finish: Gray Urethane

Regulator Spring: Steel

Stem Guide/Disk Holder: Stainless Steel

Diaphragm: Fabric Reinforced Nitrile (NBR)

or Fabric Reinforced Viton (V)

Bonnet / Body Material: Cast Aluminum

Vent: Non-Relieving

^{*} Other configurations and materials available upon request.





^{*} BTU/H Capacity @ 20% Droop