

# Regulator

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part no.  
68858

## for use with MSA® Demand and Pressure-Demand Air-Line Respirators

### safety and operating instructions



For More Information: Call (1-800-MSA-2222) or Visit Our Website at ([www.MSAnet.com](http://www.MSAnet.com))



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MINE SAFETY APPLIANCES COMPANY  
PITTSBURGH, PENNSYLVANIA, U.S.A. 15230

## Before Use Precautions

1. Do not attempt to operate this apparatus unless you are trained in its proper use or are under competent supervision.
2. Always connect this respirator to a cylinder marked "Breathing Air" or "Air for Human Respiration: (Grade D of Compressed Gas Association (CGA) connection number 346.
3. The regulator adjusting screw has been factory set and locked to supply an outlet pressure of 80 +/- 10 psig. This pressure will be present whenever the cylinder valve is opened. DO NOT open the cylinder valve without having a suitable connection attached to the outlet port of the regulator. Suitable connections are (a) a valved quick-release coupler, (b) a manifold with valved quick-release couplers, and (c) airline hose(s) connected to an MSA Demand or Pressure-Demand Air-Line Respirator.
4. The pressure relief valve has been set at 125 PSIG. The outlet pressure of the regulator must not be reset (from the factory setting of 80 +/- 10 PSIG) to exceed 100 PSIG.

The regulator can be reset to suit the requirements specified for the respirator. Adjust the regulator by:

- a. Loosen the 9/16 inch acorn nut on the face of the regulator body.
- b. Use a 3/16 inch Allen wrench to adjust the outlet pressure as required. If possible adjust regulator while respirators are in service.
- c. Retighten acorn nut slightly to lock regulator adjustment.

## Operating Instructions

### **WARNING**

Every time this regulator is attached to a cylinder, the following safety and operation instructions must be strictly followed. Deviation from these instructions can result in fire, explosion, damage to the regulator, or injury to the operator.

1. Secure cylinders to a wall, post, or cart so that they will not tip or fall.
2. Inspect the cylinder valves for damaged threads, dirt, dust, oil, or grease. Remove dust and dirt with a clean cloth.

### **CAUTION**

- **DO NOT ATTACH THE REGULATOR IF OIL, GREASE, OR DAMAGE IS PRESENT!**
  - **DO NOT USE THE REGULATOR IF OIL, GREASE OR DAMAGE IS PRESENT! Return to Mine Safety Appliances Company, Authorized Repair Center, at 1-800-MSA-2222.**
3. Inspect the regulator for damage threads, dirt, dust, oil, or grease. Remove dust and dirt with a clean cloth.
  4. Crack open the cylinder valve for an instant and close quickly. This will blow out any foreign matter that may be inside the valve port.

### **CAUTION**

**Do not stand in front of the valve outlet, and wear appropriate eye protection.**

5. Attach the regulator to the cylinder valve and tighten securely with a wrench.
6. Before opening the cylinder valve, be certain that a suitable connection is attached to the outlet port of the regulator (refer to "Before Use Precautions").
7. Stand to the side of the cylinder opposite the regulator when opening the cylinder valve, keeping the cylinder valve between you and the regulator. Never stand in front of or behind a regulator. CAREFULLY and SLOWLY open the cylinder valve until the cylinder pressure is indicated on the high pressure gauge.
8. To check for leaks, close the cylinder valve. If the high pressure gauge drops while the low pressure gauge remains constant, there is a leak in either the cylinder valve, inlet fitting, high pressure gauge, low pressure gauge, outlet connection, or downstream of the outlet connection. Check for leaks using a leak detector solution. If the high pressure gauge drops, and at the same time the low pressure gauge rises, there is a leak in the regulator seat. The regulator should be returned to MSA for repair.
9. Keep the cylinder valve closed at all times, except when the cylinder is in use. When you are finished using the apparatus, close the cylinder valve and bleed air from the apparatus until all pressure is drained from the regulator. The recommended method for bleeding the system with MSA Demand Air-Line Respirators is to close the cylinder valve and continue to breathe from the facepiece until air is depleted from the system. With Pressure Demand Air-Line Respirators, the air will bleed out of the facepiece automatically.