Milton MILS-1145

Milton MILS-1145 Mini Heavy Duty Regulator User Manual

Model: MILS-1145

1. Safety Information

Read and understand all instructions before installing or operating this regulator. Failure to follow these instructions may result in property damage or personal injury.

- Always wear appropriate personal protective equipment, including eye protection, when working with compressed air systems.
- Ensure the air supply is turned off and pressure is relieved before performing any installation, maintenance, or adjustments.
- Do not exceed the maximum operating pressure of 250 PSI for this regulator.
- Operate within the specified temperature range of 40°F to 120°F (4°C to 49°C).
- Use only clean, dry compressed air. Contaminants can damage the regulator and connected equipment.
- Ensure all connections are secure and leak-free before pressurizing the system.

2. Product Overview

The Milton MILS-1145 Mini Heavy Duty Regulator is designed for precise air pressure control in compact, low air flow applications. It features a relieving design, allowing for quick pressure adjustments.

Image showing the Milton MILS-1145 Mini Heavy Duty Regulator with its adjustment knob and threaded ports.

Key Features:

- Compact design for low air flow applications.
- Relieving model for quick and accurate pressure adjustments.
- Adjustable pressure range: 5-125 PSI.
- Maximum inlet pressure: 250 PSI.
- Temperature range: 40°F to 120°F.
- Maximum SCFM: 25.
- Equipped with 1/8" gage ports for pressure monitoring.
- .25" NPT (National Pipe Taper) connections.

3. Setup and Installation

Components Required:

- Air compressor and air hose.
- Thread sealant (e.g., PTFE tape or pipe dope).
- Appropriate wrenches for tightening connections.
- Pressure gauge (optional, for 1/8" gage ports).

Installation Steps:

1. **Prepare Connections:** Ensure the air supply is off and depressurized. Identify the inlet and outlet ports on the regulator. The regulator typically has an arrow indicating the direction of air flow.
2. **Apply Thread Sealant:** Apply a suitable thread sealant (such as PTFE tape or pipe dope) to the male threads of all connecting pipes or fittings. This helps prevent air leaks.
3. **Connect Regulator:** Thread the regulator into the air line. Ensure the inlet port is connected to the air supply and the outlet port is connected to the equipment requiring regulated air.
4. **Install Pressure Gauge (Optional):** If desired, install a pressure gauge into one of the 1/8" gage ports. Apply thread sealant to the gauge threads before installation.
5. **Tighten Connections:** Use appropriate wrenches to securely tighten all connections. Do not overtighten, as this can damage the threads or regulator body.
6. **Check for Leaks:** Slowly turn on the air supply. Apply a soapy water solution to all connections. Bubbles indicate a leak, which must be corrected before operation.

4. Operating Instructions

Adjusting Output Pressure:

1. **Ensure Air Supply:** Confirm that the air supply to the regulator is turned on and pressurized.
2. **Unlock Adjustment Knob:** If the adjustment knob is locked (some models have a pull-to-adjust feature), pull it outwards to unlock.
3. **Increase Pressure:** Turn the adjustment knob clockwise to increase the output pressure.
4. **Decrease Pressure:** Turn the adjustment knob counter-clockwise to decrease the output pressure.
5. **Monitor Pressure:** Observe the pressure gauge (if installed) to set the desired output pressure within the 5-125 PSI range.
6. **Lock Adjustment Knob:** Once the desired pressure is set, push the adjustment knob inwards (if

applicable) to lock it in place and prevent accidental changes.

Relieving Function:

This regulator is a relieving model. This means that when the adjustment knob is turned counter-clockwise to reduce the set pressure, excess downstream pressure is automatically vented to the atmosphere. This allows for quick and precise pressure reduction without needing to operate downstream equipment.

5. Maintenance

Regular maintenance ensures optimal performance and extends the life of your regulator.

Regular Checks:

- **Inspect for Leaks:** Periodically check all connections for air leaks using a soapy water solution. Tighten any leaking connections.
- **Check for Damage:** Inspect the regulator body and adjustment knob for any signs of physical damage, cracks, or wear.
- **Clean Exterior:** Keep the exterior of the regulator clean. Use a damp cloth to wipe away dust and debris. Do not use harsh chemicals or solvents.
- **Air Quality:** Ensure the air supply is free of moisture and contaminants. Install an air filter upstream of the regulator if necessary.

Storage:

If the regulator is to be stored for an extended period, ensure it is depressurized, disconnected from the air supply, and stored in a clean, dry environment within the specified temperature range.

6. Troubleshooting

This section addresses common issues you might encounter with your regulator.

Problem	Possible Cause	Solution
No air flow or very low air flow.	Air supply off; Regulator set too low; Clogged filter (if present upstream); Regulator malfunction.	Check air supply; Increase set pressure; Inspect/clean upstream filter; Contact support if malfunction suspected.
Pressure cannot be adjusted.	Adjustment knob locked; Internal component failure.	Pull adjustment knob out to unlock; Contact support.
Pressure fluctuates or drops significantly.	Inadequate air supply from compressor; Downstream leak; Regulator internal issue.	Check compressor capacity; Inspect downstream system for leaks; Contact support.
Air leaks from connections.	Loose connections; Insufficient thread sealant; Damaged threads.	Tighten connections; Reapply thread sealant; Replace damaged fittings/regulator.

7. Specifications

- **Model:** MILS-1145
- **Brand:** Milton
- **Connection Size:** .25" NPT
- **Adjustable Pressure Range:** 5-125 PSI
- **Maximum Inlet Pressure:** 250 PSI
- **Temperature Range:** 40°F to 120°F (4°C to 49°C)
- **Maximum SCFM:** 25
- **Gage Ports:** 1/8"
- **Item Weight:** Approximately 1 pound
- **Product Dimensions:** Approximately 12 x 7 x 1.75 inches

8. Warranty and Support

Warranty Information:

This Milton product is covered by the manufacturer's standard warranty against defects in materials and workmanship. Please refer to the original product packaging or Milton's official website for specific warranty terms and conditions.

Customer Support:

For technical assistance, replacement parts, or warranty claims, please contact Milton customer support directly. Contact information can typically be found on the Milton website or product packaging.