Milton 1115-8

Milton 1115-8 1/2-Inch Air Filter Regulator User Manual

Model: 1115-8 | Brand: Milton

1. Introduction

The Milton 1115-8 1/2-Inch Air Filter Regulator is designed to provide stable downstream air pressure with accurate control, fast response, and minimal pressure drop in compressed air systems. This manual provides essential information for the safe and effective installation, operation, and maintenance of your air filter regulator.

2. Safety Information

Please read and understand all safety instructions before installing or operating this device. Failure to follow these instructions may result in property damage, personal injury, or death.

- Always wear appropriate personal protective equipment (PPE), including eye protection, when working with compressed air systems.
- Ensure the air supply is shut off and depressurized before attempting any installation, maintenance, or repair.
- Do not exceed the maximum operating pressure of **100 PSI**. Operating above this pressure can cause damage to the unit and connected equipment, and poses a safety risk.
- Install the regulator in a well-ventilated area, away from heat sources or flammable materials.
- Refer to local codes and regulations for proper installation and safety practices for compressed air systems.
- This product is designed for air only. Do not use with other gases or liquids.

3. Product Overview

The Milton 1115-8 Air Filter Regulator combines air filtration and pressure regulation into a single unit, providing clean, regulated air for your pneumatic tools and equipment.

Key Features:

- **Stable Downstream Pressure:** Offers accurate control and fast response to maintain consistent output pressure.
- **Minimal Pressure Drop:** Efficient design ensures minimal pressure loss across the unit.

- **Gauge Ports:** Features offset 1/4-inch gauge ports, which can also serve as two 1/4-inch supply lines, allowing up to three regulated full flow out ports.
- **Durable Construction:** Constructed with an aluminum die-cast body, balanced piston, and molded rubber seat for longevity.
- **Thread Size:** 1/2-inch National Pipe Thread (NPT) for inlet and outlet connections.

Components:

The unit consists of a main body, a pressure adjustment knob, a filter bowl for moisture and particulate collection, and connection ports.





Figure 1: Milton 1115-8 1/2-Inch Air Filter Regulator. This image shows the main body of the regulator with its adjustment knob and connection ports.

4. Setup and Installation

Proper installation is crucial for the performance and safety of the air filter regulator.

1. **Preparation:** Ensure the compressed air system is completely depressurized and the air supply is shut off before beginning installation.
2. **Location:** Install the regulator downstream of the compressor and air dryer, but upstream of any lubricators or air tools. Choose a location that is easily accessible for adjustment and maintenance.
3. **Orientation:** Install the regulator vertically with the filter bowl facing downwards to allow for proper moisture drainage. Observe the airflow arrow on the regulator body to ensure correct direction of air flow.
4. **Connections:** Apply appropriate thread sealant (e.g., PTFE tape) to the 1/2-inch NPT inlet and outlet threads. Connect the regulator securely into the air line. Do not overtighten.
5. **Gauge Installation:** Install a pressure gauge (not included) into one of the 1/4-inch gauge ports. Use thread sealant and tighten securely.
6. **Leak Check:** Once installed, slowly restore air pressure to the system. Check all connections for leaks using a soapy water solution. Tighten connections as necessary to eliminate leaks.

5. Operating Instructions

The regulator allows you to set and maintain a desired output pressure for your pneumatic equipment.

1. **Initial Adjustment:** With the air supply on and the system pressurized, turn the pressure adjustment knob counter-clockwise until the output pressure gauge reads zero or the lowest setting.
2. **Set Pressure:** Slowly turn the adjustment knob clockwise to increase the output pressure to the desired setting. Monitor the pressure gauge while adjusting.
3. **Locking (if applicable):** Some regulators may have a locking mechanism (e.g., a pull-up/push-down knob) to prevent accidental pressure changes. If present, push down the knob to lock the setting.
4. **Monitoring:** Periodically check the pressure gauge during operation to ensure the desired pressure is maintained.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your air filter regulator.

- **Drainage:** The filter bowl will collect moisture and contaminants. Regularly drain the accumulated liquid by opening the drain valve at the bottom of the bowl. Frequency depends on air quality and usage.
- **Filter Element Inspection/Replacement:** Periodically inspect the filter element for excessive dirt or clogging. A dirty filter will restrict airflow and reduce filtration efficiency. Replace the filter element as needed. Refer to Milton's official documentation for specific replacement part numbers and procedures.
- **Cleaning:** Clean the exterior of the regulator with a mild detergent and a soft cloth. Do not use harsh solvents, as they may damage the aluminum finish or plastic components.
- **Leak Checks:** Regularly check all connections for air leaks.

7. Troubleshooting

If you encounter issues with your air filter regulator, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No output pressure or low output pressure	Air supply off; Regulator not adjusted; Clogged filter element; Leak in system	Check air supply; Adjust regulator knob clockwise; Inspect and replace filter element; Check for and repair leaks
Unstable output pressure	Fluctuating inlet pressure; Damaged regulator diaphragm/piston; Clogged filter element	Ensure stable inlet pressure; Contact Milton support for service; Inspect and replace filter element
Air leaks from regulator	Loose connections; Damaged seals or O-rings; Cracked filter bowl	Tighten connections; Inspect and replace seals/O-rings; Replace filter bowl if cracked
Water in air line downstream of regulator	Filter bowl not drained; Inadequate air drying upstream	Regularly drain filter bowl; Consider adding an air dryer or improving existing one

8. Specifications

Technical specifications for the Milton 1115-8 1/2-Inch Air Filter Regulator:

- **Model Number:** 1115-8
- **Material:** Aluminum
- **Inlet Connection Size:** 1/2-Inch NPT (0.5 inches)
- **Outlet Connection Size:** 1/2-Inch NPT (0.5 inches)
- **Number of Ports:** 3 (including gauge ports)
- **Maximum Operating Pressure:** 100 PSI
- **Operating Temperature Range:** 40°F to 120°F (4°C to 49°C)
- **Item Dimensions (L x W x H):** 7.6 x 7.6 x 20.3 cm (approximately 3 x 3 x 8 inches)
- **Item Weight:** Approximately 1.1 lbs (499 g)
- **Country of Origin:** China

9. Warranty and Support

For information regarding product warranty, technical assistance, or replacement parts, please contact Milton customer service directly. Refer to the official Milton website or product packaging for the most current contact information and warranty details.

Milton Industries, Inc.
Chicago, IL 60639, US

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