

APOLLO 69ELF114TWG

Apollo 3/4" Bronze Double Union Threaded Water Pressure Regulator with Gauge Instruction Manual

Model: 69ELF114TWG

1. PRODUCT OVERVIEW

The Apollo 3/4" Bronze Double Union Threaded Water Pressure Regulator with Gauge (Model 69ELF114TWG) is designed to reduce incoming water pressure to a safe and consistent level for residential and commercial plumbing systems. This unit features a compact design, lead-free bronze construction, and an integrated internal bypass mechanism. It includes a color-coded gauge for easy pressure monitoring and adjustment.

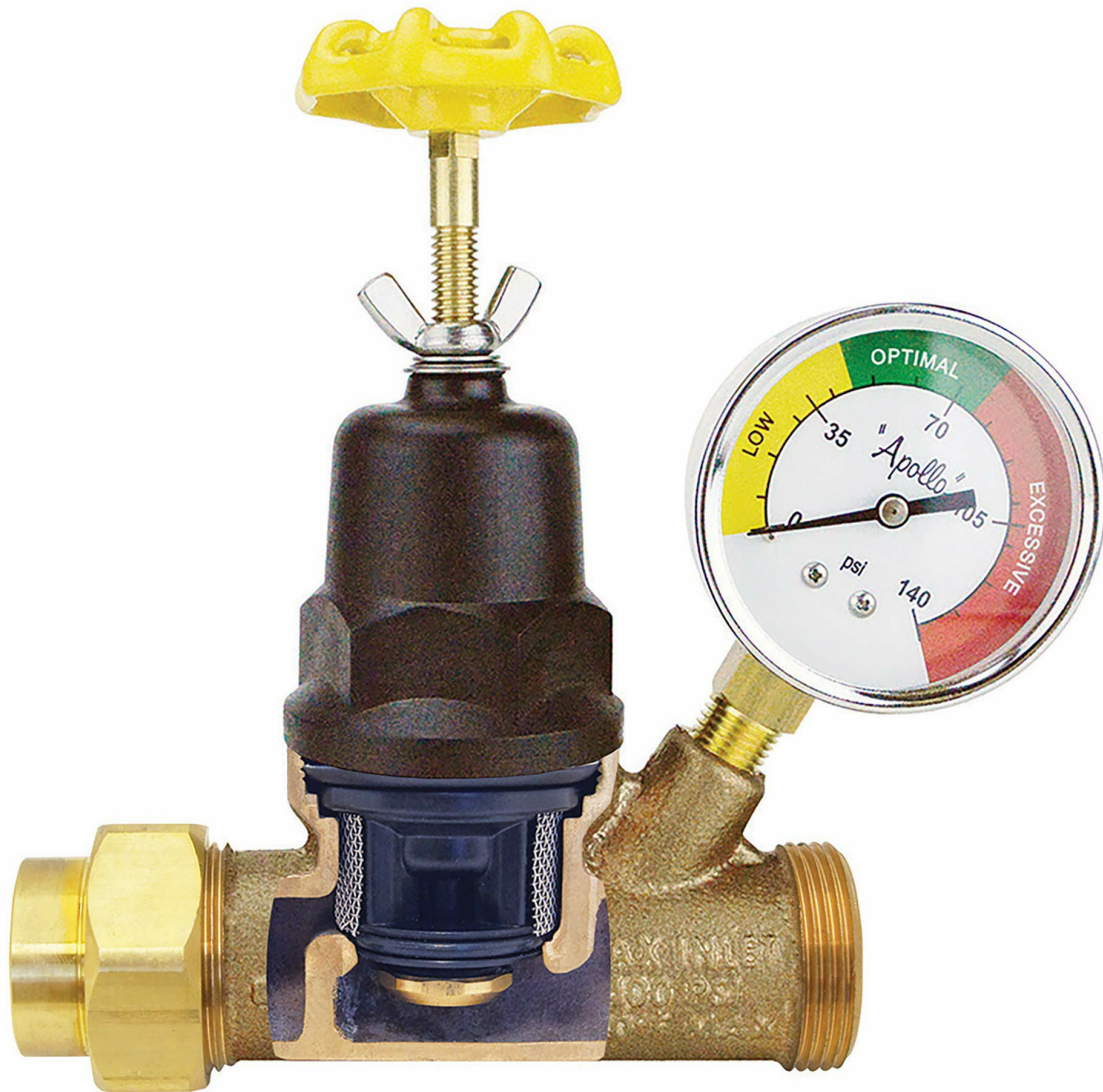


Figure 1: Apollo 3/4" Bronze Double Union Threaded Water Pressure Regulator with Gauge. This image shows the regulator with its integrated pressure gauge and yellow adjustment handle.

2. SAFETY INFORMATION

- Always shut off the main water supply before beginning any installation or maintenance.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Ensure all connections are properly sealed to prevent leaks.
- Consult local plumbing codes and regulations for proper installation procedures.
- If you are unsure about any part of the installation, consult a qualified plumber.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- 1x Apollo 3/4" Bronze Double Union Threaded Water Pressure Regulator
- 1x Integrated Pressure Gauge

4. INSTALLATION

This regulator features a double union PEX-A (cold expansion) barb design for simplified installation in PEX-A piping systems. Ensure the regulator is installed in the correct flow direction, indicated by an arrow on the body.

1. **Prepare the Installation Site:** Turn off the main water supply. Drain the water lines to relieve pressure. Select a suitable location for the regulator, typically after the main shut-off valve and before any branch lines.
2. **Cut and Prepare PEX-A Piping:** Cut the PEX-A pipe to the required length, ensuring clean, square cuts. Prepare the pipe ends for cold expansion connections according to PEX-A system manufacturer guidelines.
3. **Connect the Regulator:**
 - Apply appropriate thread sealant (e.g., Teflon tape or pipe dope) to the male threads of the PEX-A fittings.
 - Thread the PEX-A fittings onto the double union ends of the regulator. Ensure the flow arrow on the regulator body points in the direction of water flow into the building.
 - Tighten the union nuts securely, but do not overtighten.
 - Perform cold expansion connections on the PEX-A pipe ends to the fittings according to PEX-A system manufacturer instructions.
4. **Install Pressure Gauge:** The pressure gauge is typically pre-installed. Ensure it is securely threaded into the designated port on the regulator body.
5. **Restore Water Supply and Check for Leaks:** Slowly turn on the main water supply. Carefully inspect all connections for any signs of leaks. Tighten connections as necessary.



Figure 2: Side view of the Apollo Water Pressure Regulator, showing the double union PEX-A connections and the flow direction arrow. Note the "MAX INLET 400 PSI" marking.

5. OPERATING INSTRUCTIONS

The regulator is factory-set at 50 psi and is adjustable from 15 psi to 75 psi. No special tools are required for adjustment.

1. **Check Current Pressure:** Observe the reading on the integrated pressure gauge. The gauge is color-coded to indicate pressure ranges (e.g., Low, Optimal, Excessive).
2. **Adjusting Pressure:**
 - To **increase** pressure: Turn the yellow adjustment handle **clockwise**.
 - To **decrease** pressure: Turn the yellow adjustment handle **counter-clockwise**.
 - Make small adjustments and allow the system pressure to stabilize before re-checking the

gauge.

3. **Confirm Setting:** Once the desired pressure is achieved (typically between 50-60 psi for most residential applications), confirm the reading on the gauge.



Figure 3: Close-up view of the Apollo Water Pressure Regulator, highlighting the pressure gauge with its color-coded optimal range and the yellow adjustment handle.

6. MAINTENANCE

The Apollo Water Pressure Regulator is designed for minimal maintenance. Regular checks can help ensure optimal performance.

- **Periodic Pressure Check:** Periodically check the pressure gauge to ensure the system pressure remains at the desired setting. Fluctuations may indicate a need for adjustment or inspection.
- **Leak Inspection:** Annually inspect the regulator and connections for any signs of leaks or corrosion.
- **Cleaning:** Clean the exterior of the regulator with a damp cloth as needed. Do not use harsh chemicals.
- **Sediment Filter (Optional):** If your water supply contains significant sediment, consider installing a sediment filter upstream of the pressure regulator to prevent internal clogging.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No water flow or very low pressure downstream	Regulator set too low; Main water supply off; Regulator clogged.	Increase pressure setting; Check main water valve; Inspect for debris (consult a plumber if necessary).
Pressure too high downstream	Regulator set too high; Regulator malfunction.	Decrease pressure setting; If problem persists, regulator may need replacement.
Water hammer or fluctuating pressure	Rapid changes in water demand; Regulator bypass mechanism issue.	Ensure proper air chambers are installed in the plumbing system; Consult a plumber for regulator inspection.
Leaks at connections	Improperly tightened connections; Insufficient thread sealant.	Tighten connections; Reapply thread sealant if necessary (ensure water supply is off first).

8. SPECIFICATIONS

- Model:** 69ELF114TWG
- Material:** Bronze
- Inlet Connection Size:** 3/4 Inches
- Inlet Connection Type:** Cross Linked Polyethylene (PEX-A)
- Outlet Connection Type:** PEX
- Maximum Operating Pressure:** 400 PSI (Inlet)
- Adjustable Pressure Range:** 15 - 75 PSI (Factory-set at 50 PSI)
- Item Dimensions (L x W x H):** 2.13 x 7 x 8 inches
- Item Weight:** 2.53 pounds
- Certifications:** Certified to ASSE 1003 and CSA B356, listed by ASSE and IAPMO (cUPC)
- Special Features:** Integrated internal bypass mechanism, Color-coded gauge

9. WARRANTY AND SUPPORT

This Apollo Water Pressure Regulator comes with a manufacturer's warranty. For specific warranty details, please refer to the documentation included with your purchase or contact Apollo customer support. For technical support or inquiries, please visit the official Apollo website or contact their customer service department.