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PRV AUDIO PRV_PressureRelief_34_100

Pressure Relief Valve Instruction Manual

Model: PRV_PressureRelief_34_100 | Brand: PRV AUDIO

1. PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of the PRV AUDIO 3/4" 100 PSI Pressure Relief Valve. This valve is designed to protect water piping and pressure tanks from damage due to excessive pressure by automatically releasing water when the system pressure exceeds 100 PSI. It is specifically recommended for use in cold water system installations.

The valve is constructed from lead-free brass, ensuring safety and compliance with plumbing standards. Its design features a 3/4" male thread for connection to a tank or tank tee and a 3/4" female thread for plumbing to a drain.



Image 1.1: The PRV AUDIO 3/4 inch 100 PSI Pressure Relief Valve. This image shows the brass construction, the male threaded inlet on the left, and the female threaded outlet on the right, with the pressure relief mechanism visible at the top right.

2. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of the pressure relief valve. Always ensure the water supply is turned off before beginning installation.

2.1. Safety Precautions

- Ensure the water system is depressurized before installation.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Confirm the valve's pressure rating (100 PSI) is suitable for your system's requirements.

2.2. Installation Steps

1. **Identify Installation Point:** The valve should be installed on the cold water supply line or directly on the pressure tank/tank tee where overpressure protection is required.
2. **Prepare Connections:** The valve features a 3/4" male NPT thread for connection to the pressure tank or system piping. Apply appropriate thread sealant (e.g., PTFE tape or pipe dope) to the male threads.
3. **Connect to System:** Carefully thread the valve into the designated female port on the pressure tank or plumbing tee. Tighten securely but do not overtighten to avoid damaging threads or the valve body.
4. **Connect to Drain:** The valve has a 3/4" female NPT thread for connecting a discharge pipe. This pipe must lead to an appropriate drain location, ensuring that any discharged water can be safely managed without causing damage or hazard. Ensure the drain line is adequately sized and sloped for proper drainage.
5. **Restore Water Supply:** Once the valve is securely installed and the drain line is connected, slowly open the main water supply valve to repressurize the system.
6. **Check for Leaks:** Inspect all connections for any signs of leaks. Tighten connections as necessary.

3. OPERATING INSTRUCTIONS

The PRV AUDIO Pressure Relief Valve operates automatically. It is designed to open and discharge water when the system pressure reaches or exceeds its set point of 100 PSI, thereby preventing damage to the water system components.

- The valve will remain closed under normal operating pressures below 100 PSI.
- When system pressure rises above 100 PSI, the valve will automatically open to relieve the excess pressure.
- Once the system pressure drops back below 100 PSI, the valve will automatically close.
- No manual intervention is required for its primary pressure relief function.

4. MAINTENANCE

Regular inspection of the pressure relief valve is recommended to ensure its continued proper function and system safety.

- **Visual Inspection:** Periodically check the valve and its connections for any signs of corrosion, damage, or leaks.
- **Discharge Line Check:** Ensure the discharge line is clear of obstructions and properly routed to a safe drain.
- **Testing (Optional, Consult Professional):** Some pressure relief valves can be manually tested by lifting a lever or turning a knob to ensure they open and close. However, for this specific valve,

manual testing may not be applicable or recommended without professional guidance, as it could lead to water discharge. If you suspect the valve is not functioning correctly, consult a qualified plumber.

- **Cleaning:** Do not attempt to disassemble or clean the internal components of the valve. If the valve is fouled or not operating correctly, replacement is generally recommended.

5. TROUBLESHOOTING

This section addresses common issues that may arise with the pressure relief valve.

Problem	Possible Cause	Solution
Valve leaks continuously or drips	<ul style="list-style-type: none"> ◦ System pressure is consistently at or above 100 PSI. ◦ Debris lodged in the valve seat. ◦ Valve is faulty or worn out. 	<ul style="list-style-type: none"> ◦ Check system pressure with a gauge. If consistently high, address the source of overpressure (e.g., pressure reducing valve, thermal expansion). ◦ If debris is suspected, the valve may need replacement. ◦ Replace the valve.
Valve does not open when pressure is high	<ul style="list-style-type: none"> ◦ Valve is clogged or seized. ◦ Incorrect valve rating for system. 	<ul style="list-style-type: none"> ◦ Replace the valve. ◦ Verify the system's maximum pressure and ensure the valve's 100 PSI rating is appropriate.
Water discharge is insufficient	<ul style="list-style-type: none"> ◦ Discharge line is obstructed or too small. 	<ul style="list-style-type: none"> ◦ Clear any obstructions in the discharge line. Ensure the line is correctly sized (3/4" or larger) and has proper slope.

If troubleshooting steps do not resolve the issue, or if you are unsure about any procedure, it is highly recommended to contact a qualified plumbing professional.

6. SPECIFICATIONS

Attribute	Detail
Model Number	PRV_PressureRelief_34_100
Material	NO LEAD BRASS
Exterior Finish	Brass
Inlet Connection Size	0.75 Inches (3/4")
Inlet Connection Type	Threaded (Male NPT)
Outlet Connection Size	0.75 Inches (3/4")
Outlet Connection Type	NPT (Female)
Maximum Operating Pressure	100 PSI (Pound per Square Inch)
Number of Ports	2

Attribute	Detail
Package Dimensions	2.95 x 1.85 x 1.14 inches
Package Weight	5.93 ounces
Manufacturer	PRV
Date First Available	October 12, 2017

7. WARRANTY AND SUPPORT

Specific warranty information for the PRV AUDIO Pressure Relief Valve is not provided within this manual. For details regarding product warranty, returns, or technical support, please refer to the original purchase documentation or contact the seller or manufacturer directly.

You may visit the official PRV AUDIO store on Amazon for more information:[PRV AUDIO Store](#)

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This manual is for informational purposes only. Specifications are subject to change without notice.