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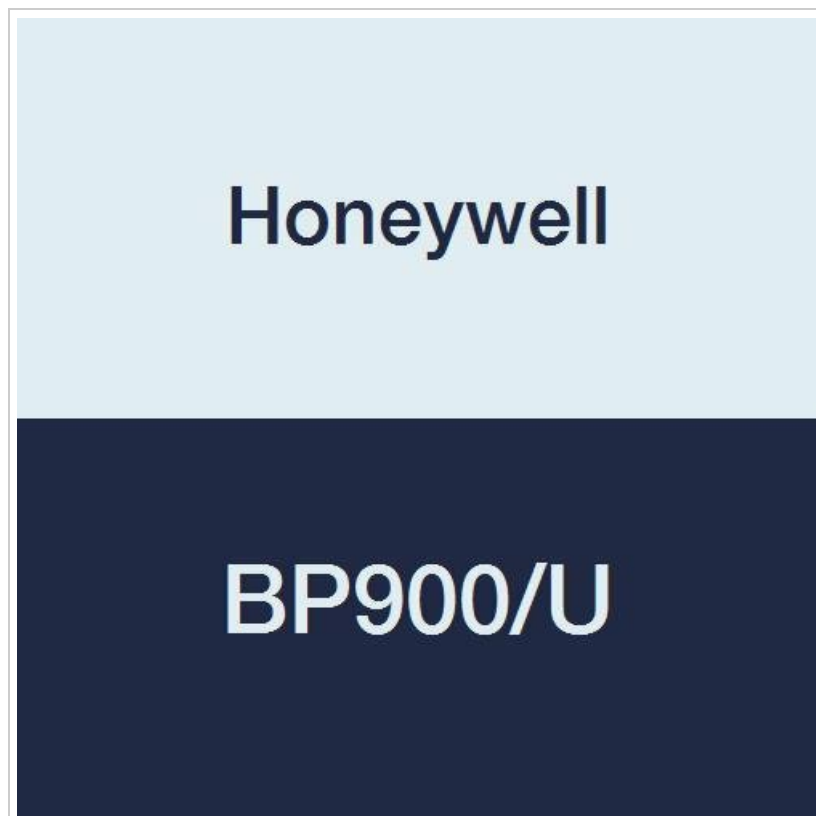
## Honeywell BP900/U

# Honeywell BP900/U Backflow Preventer User Manual

Model: BP900/U | Brand: Honeywell

## 1. INTRODUCTION AND PRODUCT OVERVIEW

The Honeywell BP900/U Backflow Preventer is engineered for continuous pressure applications within small supply lines. Its primary function is to safeguard potable water supplies from contamination by preventing backflow and back-siphonage of non-potable water. This device utilizes an intermediate atmospheric vacuum breaker for effective protection. Manufactured by Honeywell in the United States, it is designed for reliable performance in appropriate plumbing systems.



**Figure 1:** Honeywell BP900/U Backflow Preventer. This image displays the product, highlighting its compact design suitable for small supply line installations.

## 2. SAFETY INFORMATION

Always adhere to local plumbing codes and regulations during installation and maintenance. Installation should only be performed by a qualified professional. Before any work, ensure the water supply is shut off and the system is depressurized. Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves. Do not modify the device. Failure to follow these instructions could result in property damage, injury, or death.

## 3. PRODUCT FEATURES

- **Backflow Prevention:** Designed to prevent the reverse flow of contaminated water into potable water systems.
- **Atmospheric Vent:** Incorporates an intermediate atmospheric vacuum breaker for enhanced protection against back-siphonage.
- **Continuous Pressure Application:** Suitable for systems with constant water pressure.
- **Compact Design:** Ideal for installation on small supply lines.
- **Durable Construction:** Manufactured in the United States by Honeywell.

## 4. SPECIFICATIONS

Specification	Detail
Model Number	BP900/U
Brand	Honeywell
Inlet Connection Type	National Pipe Tapered (NPT)
Outlet Connection Type	FNPT (Female National Pipe Tapered)
Nominal Size	1/2 inch
Maximum Pressure	175 psi
Product Type	Backflow Preventer with Atmospheric Vent
Country of Origin	United States
Approximate Item Weight	1.0 lbs
Approximate Package Dimensions	12.0" L x 12.0" W x 6.0" H

## 5. SETUP AND INSTALLATION

Installation of the Honeywell BP900/U Backflow Preventer must comply with all applicable federal, state, and local plumbing codes. It is strongly recommended that installation be performed by a licensed plumber or qualified professional.

1. **Preparation:** Ensure the installation location is accessible for future maintenance and testing. The device should be installed in a horizontal position with the atmospheric vent facing upwards.
2. **Shut Off Water Supply:** Locate the main water shut-off valve and turn off the water supply to the area where the backflow preventer will be installed.

3. **Drain System:** Open nearby faucets to drain any remaining water from the pipes and relieve pressure.
4. **Cut Pipe:** Carefully cut the existing supply line to the appropriate length, allowing for the dimensions of the backflow preventer and any necessary fittings. Ensure clean, burr-free cuts.
5. **Connect Device:** Using appropriate NPT fittings and thread sealant (e.g., PTFE tape or pipe dope), connect the inlet side of the BP900/U to the upstream potable water line and the outlet side to the downstream protected line. Ensure connections are tight but do not overtighten.
6. **Restore Water Supply:** Slowly open the main water shut-off valve. Check all connections for leaks.
7. **Test Operation:** Verify proper operation of the backflow preventer according to local regulations. This may involve a certified backflow tester.

*Note: Specific installation diagrams or detailed instructions may be provided with the physical product packaging. Always refer to those for precise guidance.*

## 6. OPERATION

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The Honeywell BP900/U Backflow Preventer operates automatically to protect against backflow and back-siphonage. Under normal operating conditions, water flows through the device from the potable supply to the protected system. In the event of a pressure drop in the potable water supply (back-siphonage) or a pressure increase in the protected system (backpressure), the internal mechanisms of the BP900/U activate to prevent reverse flow, discharging water through the atmospheric vent if necessary to break any vacuum.

No user intervention is required for its protective function during normal operation. Regular testing by a certified professional is essential to ensure continued proper operation.

## 7. MAINTENANCE

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To ensure the long-term reliability and effectiveness of your Honeywell BP900/U Backflow Preventer, regular maintenance and testing are crucial.

- **Annual Testing:** Backflow preventers are typically required by local authorities to be tested annually by a certified backflow prevention device tester. This ensures the device is functioning correctly and meets regulatory standards.
- **Visual Inspection:** Periodically inspect the device for any visible signs of damage, leaks, or corrosion. Ensure the atmospheric vent is clear and unobstructed.
- **Winterization (if applicable):** In climates where freezing temperatures occur, ensure the backflow preventer is properly protected from freezing, as freezing can cause severe damage and compromise its function. Consult a professional for proper winterization procedures.
- **Repairs:** Any repairs or internal component replacements should only be performed by a qualified professional using genuine Honeywell replacement parts.

## 8. TROUBLESHOOTING

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If you experience issues with your Honeywell BP900/U Backflow Preventer, consider the following common problems and potential solutions. For complex issues, always contact a qualified plumbing professional.

- **Continuous Drip or Leak from Vent:**
  - *Possible Cause:* Debris lodged in the check valve or atmospheric vent, worn seals, or improper installation.

- *Solution:* Shut off water supply, inspect for debris, clean or replace seals. If the issue persists, professional service is required.

- **Reduced Water Flow:**

- *Possible Cause:* Clogged strainer (if present in the system), partially closed shut-off valves, or internal component malfunction.
- *Solution:* Check all valves are fully open. If flow remains low, professional inspection of the device and system is needed.

- **Water Hammer:**

- *Possible Cause:* Rapid closure of valves, high water pressure, or air in the system.
- *Solution:* Install water hammer arrestors if not already present. Bleed air from the system. Consult a plumber to assess system pressure.

*Warning: Do not attempt to disassemble the backflow preventer without proper training and tools. Improper reassembly can lead to device failure and contamination of the potable water supply.*

## 9. WARRANTY AND SUPPORT

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For specific warranty information regarding your Honeywell BP900/U Backflow Preventer, please refer to the documentation included with your purchase or contact Honeywell customer support directly. Warranty terms typically cover manufacturing defects for a specified period.

For technical support, replacement parts, or service inquiries, please visit the official Honeywell website or contact their customer service department. Ensure you have your model number (BP900/U) and purchase details available when seeking support.

**Honeywell Official Website:** [www.honeywell.com](http://www.honeywell.com)