



## Irrigation Systems

A building permit is required for the installation of new irrigation systems or the extension of existing systems.

A backflow preventer is required.

2021 International Plumbing Code 608.17.5 in accordance with Wyoming Department of Environmental Quality consider irrigation system a High Hazard Back Pressure- ".....Where chemicals are introduced into the system, the potable water supply shall be protected against backflow by a reduced pressure principle backflow prevention assembly."

The attached sheets will assist in determining the proper type of backflow preventer for your system.

- \* Airgap
- \* Reduced Pressure Backflow Preventer

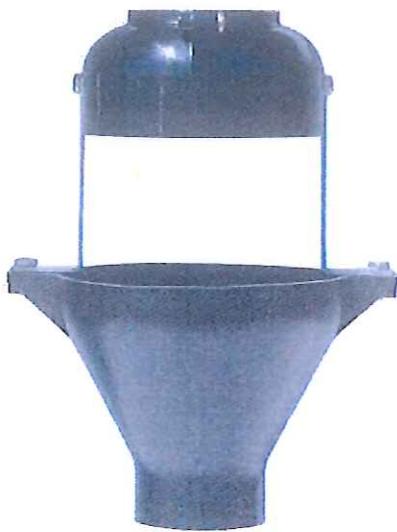
For additional information or assistance, contact the Engineering & Building Department at 307-783-6470.

Table 4. Backflow Prevention Devices, Assemblies and Methods

Device, Assembly, or Method	Degree of Hazard				Notes	
	Low Hazard		High Hazard			
	Back-Siphonage	Back-Pressure	Back-Siphonage	Back-Pressure		
Airgap	X	X	X	X	See Note 1 and Note 2	
Atmospheric Vacuum Breaker	X		X		Not allowable under continuous pressure	
Spill-proof Pressure Type Vacuum	X		X			
Double Check Valve Backflow Preventer	X	X				
Pressure Vacuum Breaker	X		X		See Note 2	
Reduced Pressure Principal Backflow	X	X	X	X		
Dual Check	X				Restricted to residential services	

**Note 1 :** Minimum airgap for water distribution. For spouts with an effective opening diameter of 1/2 inch or less, the minimum airgap when the discharge is not affected by sidewalls shall be 1 inch. The minimum airgap when the discharge is affected by side walls shall be 1 1/2 inches. For effective openings greater than 1/2 inch, the minimum airgap shall be 2 times the effective opening diameter when the discharge is not affected by the sidewalls. The minimum airgap when the discharge is affected by side walls shall be three times the effective opening diameter.

**Note 2 :** Extreme Hazards. In the case of any water user's system where, in the opinion of the water supplier or the administrator, an undue health threat is posed because of the presence of extremely toxic substances or potential back pressures in excess of the design working pressure of the device, the water supplier may require an airgap at the water service connection to protect the public water system.



**Air Gaps:**

Valve Size

3/4 to 1 IN

919AGC

919AGC

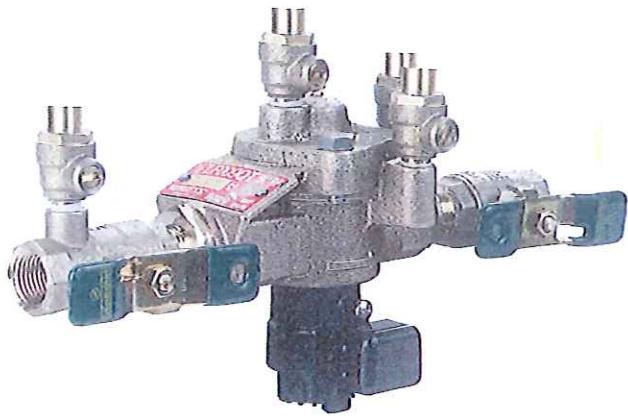
UPC: 098268213560

Air Gap For 3/4 To 1 IN 909 Series

**Approval/Certification Information**

For product-specific approval information, please refer to the product's specification sheet (see literature section above) or ask a Watts representative. For general information regarding any approval certification partners identified in the specification sheet, please visit our certification partners' websites:

ASSE   CSA   FM Approvals   NSF  
UL   ULC   USC   WQA



#### **Reduced Pressure Backflow Preventer:**

Series 009 reduced pressure zone assembly backflow preventers are designed to prevent the reverse flow of polluted water from entering into the potable water supply due to backsiphonage and or backpressure. They have a bronze body construction (1/4 to 2 in.) or FDA approved epoxy coated cast iron (2 1/2 to 3 in.), two in-line independent check valves, replaceable check seats with an intermediate relief valve, and ball valve test cocks. Series 009 is ideal for protection of health hazard cross-connections or for containment at the service line entrance. Check with local water authorities for installation requirements. Maximum working pressure is 175 psi (12.06 bar).

This series features a flood sensor with SentryPlus Alert<sup>®</sup> technology to detect excessive water discharges from the relief valve. Activated through an add-on connection kit, the sensor can trigger the alert system sending notification of flood detection to facility personnel. Connection kits are available for BMS and cellular communication.

#### **Features**

- Sensor on relief valve for flood detection
- Flood alert feature available with add-on connection kit, compatible with BMS and cellular communication
- Compact, space-saving design
- Single cover, top-entry design allows for convenient access for maintenance
- Captured springs for safe maintenance
- Seats and seat discs are replaceable