

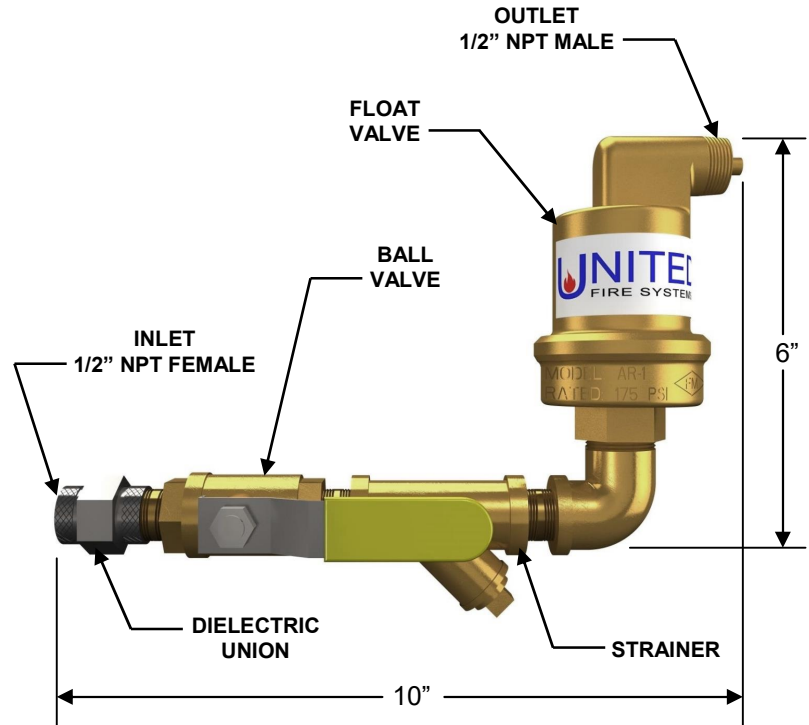
AIR RELEASE FOR WET-PIPE FIRE SPRINKLER SYSTEMS
MODEL AR-1

DESCRIPTION

The **FM Approved UNITED Fire Systems Model AR-1 Wet-Pipe Fire Sprinkler System Air Release** is a device for automatically releasing the trapped air from the high point(s) of a wet sprinkler system.

Trapped air contains oxygen, which, when combined with water, is the primary cause of internal pipe corrosion. This corrosion can lead to pipe blockage, leaks, and pipe failure.

The **FM Approved UNITED Fire Systems AR-1** air release is installed at the system high point(s). Air is vented until water reaches the internal float valve, which automatically closes the device to prevent water release.



NOTE: Dimensions are approximate.

Model No.	Temperature Range	Maximum Pressure
AR-1	+40°F to +120°F	175 PSIG

FEATURES AND BENEFITS
Compare to Competition

- **FM Approved** – Complies with NFPA 13 component listing requirement.
- **CSFM Listed** – No. 5525-2143:0500.
- Dielectric union – Prevents dissimilar metal corrosion.
- Ball valve – Allows AR-1 servicing without sprinkler system shutdown.
- Float valve – Automatic shutoff of outlet when air is vented and water reaches device.
- Strainer – Protects float valve from particulate matter that could interfere with valve seat.
- Outlet tubing connection – Provides optional connection for remote draining.

For downloadable architect's specifications and drawing details, go to:
www.unitedfiresystems.com/sprinklerdevices

NFPA 13 REQUIREMENTS

The 2016 edition of NFPA 13, *Standard for the Installation of Sprinkler Systems*, requires a method to vent trapped air in all new wet pipe sprinkler systems. The language of this requirement is:

7.1.5 Air Venting. A single air vent with a connection conforming to 8.16.6 shall be provided on each wet pipe system utilizing metallic pipe.

7.1.5.1 Venting from multiple points on each system shall not be required.

8.16.6 Air Venting. The vent required by 7.1.5 shall be located near a high point in the system to allow air to be removed from that portion of the system using one of the following methods:

1. Manual valve minimum 1/2" size
2. Automatic air valve
3. Other approved means.

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