**Nitrogen-Pac Accessories**

**Purge Vent Assembly – Fixed Orifice**

**Model PVA-1**

**Description**

The **UNITED Fire Systems Model PVA-1** is a device to purge air from the interior of pre-action sprinkler system piping, allowing a **Nitrogen-Pac™** sprinkler corrosion inhibiting system to replace the air with nitrogen. The purge vent assembly is connected to the sprinkler piping in the vicinity of the inspector’s test connection. A float valve prevents the escape of water from the device in the event of opening of the pre-action valve and filling of the piping with water. A fixed orifice regulates the amount of gas leaving the piping. The purge vent also serves as the connection point for an \( \mathrm{N}_2 \) analyzer to assess the percent nitrogen in the pipe. A drain plug allows periodic draining of accumulated water.

**Specifications**

- **Model Number:** PVA-1
- **Orifice Size:** 0.016 inch diameter
- **Connection Point Type:** Quick-Connect, Male
- **\( \mathrm{N}_2 \) Measurement Method:** Hand-held \( \mathrm{N}_2 \) Analyzer, **Model NA-1** (see Data Sheet UFS-316A)
- **Nitrogen-Pac™** Product Series: Use with **M Series** systems

**Notes**

1. **Model PVA-1** includes ball valve, union, strainer, drain plug, float valve, and \( \mathrm{N}_2 \) analyzer connection point.
2. Unit is factory assembled – DO NOT disassemble.
3. See Figure 1. Muffler assembly **P/N 31-100020-101** is available as an option for attachment to **Model PVA-1** quick-connect outlet. Assembly should provide approx. 15 dB noise reduction at **Model PVA-1**. Muffler may be removed for attachment of hand-held \( \mathrm{N}_2 \) analyzer.

![Figure 1](image1.png)

![Figure 2](image2.png)

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