

NITROGEN-PAC ACCESSORIES

**PURGE VENT ASSEMBLY – FIXED ORIFICE
MODEL PVA-3**

Description

The **UNITED Fire Systems Model PVA-3** 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 N₂ analyzer to assess the percent nitrogen in the pipe. A drain plug allows periodic draining of accumulated water.

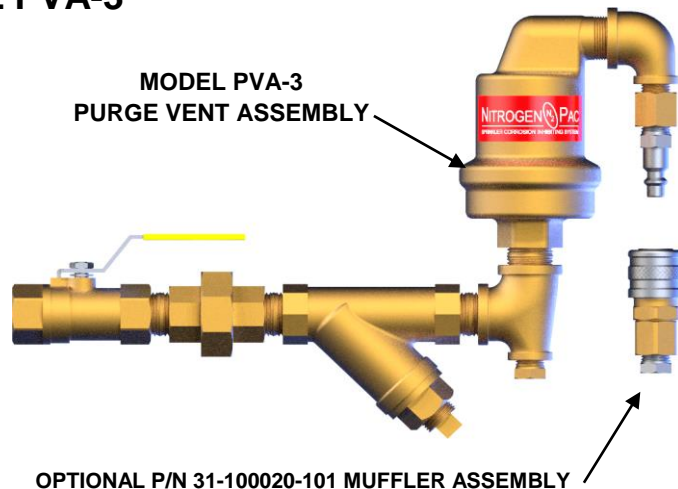


FIGURE 1

Specifications

- Model Number: PVA-3
- Orifice Size: 0.010 inch diameter
- Connection Point Type: Quick-Connect, Male
- N₂ Measurement Method: Hand-held N₂ Analyzer, **Model NA-1** (see Data Sheet UFS-316A)
- **NITROGEN-PAC™** Product Series: Use with **Model SC-1 and Model SC-2** systems

Notes

1. **Model PVA-3** includes ball valve, union, strainer, drain plug, float valve, and N₂ 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-3** quick-connect outlet. Assembly should provide approx. 15 dB noise reduction at **Model PVA-3**. Muffler may be removed for attachment of hand-held N₂ analyzer.

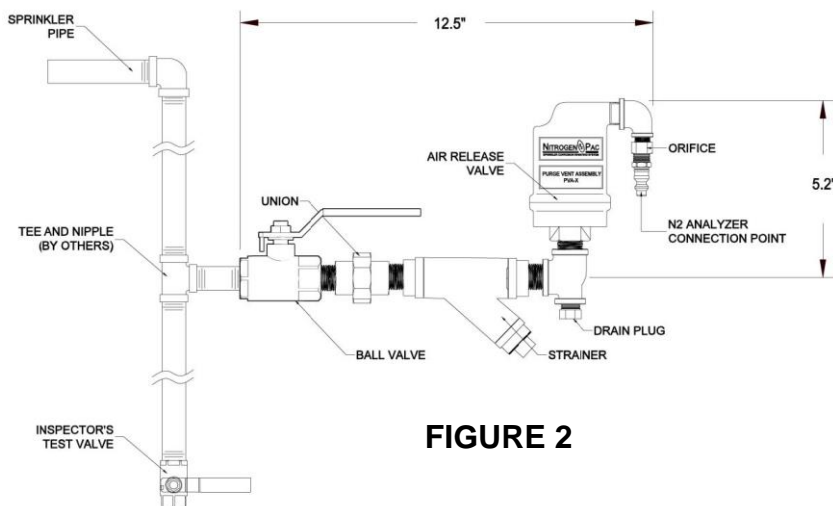


FIGURE 2

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