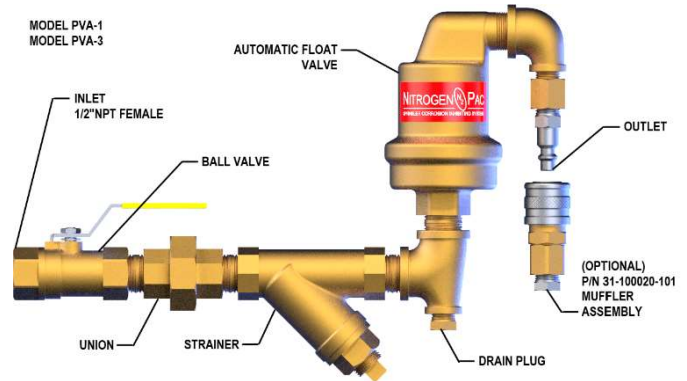




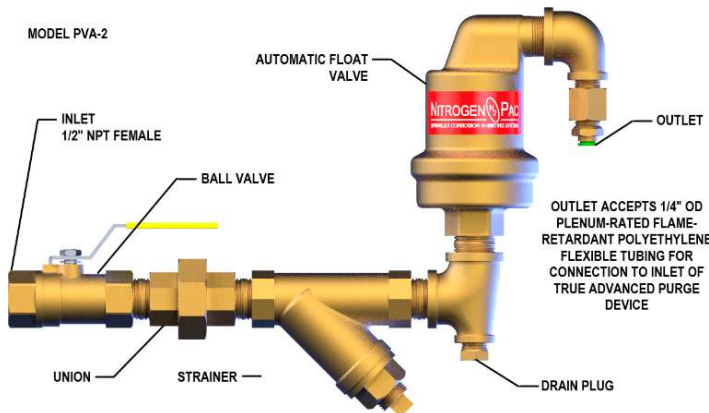
**PURGE VENT ASSEMBLY – MODEL PVA**

**DESCRIPTION**

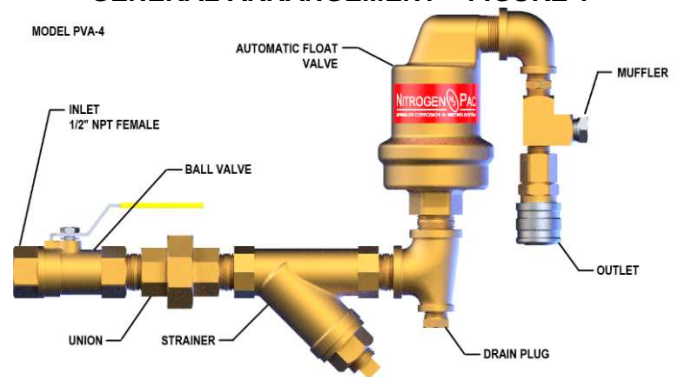
The **UNITED Fire Systems Purge Vent Assembly - Model PVA** is a device to purge air from the interior of preaction and deluge sprinkler system piping, allowing a **NITROGEN-PAC™** sprinkler corrosion inhibiting system to replace the air with nitrogen. The purge vent assembly is connected to the sprinkler 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 sprinkler 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 N<sub>2</sub> analyzer to assess the percent nitrogen in the pipe. A drain plug allows periodic draining of accumulated water.



**GENERAL ARRANGEMENT – FIGURE 1**



**GENERAL ARRANGEMENT – FIGURE 2**



**GENERAL ARRANGEMENT – FIGURE 3**

**TECHNICAL SPECIFICATIONS**

Model	Orifice Diameter (inches)	Connection Point (Outlet) Type	N <sub>2</sub> Measurement Method	Used With NITROGEN-PAC™ Model / Series	General Arrangement Figure	Installation Figure
PVA-1	0.016	Quick-Connect, Male	Hand-held N <sub>2</sub> Analyzer, Model <b>NA-1*</b>	<b>M</b> Series	1	A
PVA-2	0.016	Push-To-Connect For Sampling Tubing	<b>TRUE ADVANCED PURGE™ (TAP) Device**</b>	Model <b>SC-W</b> Model <b>SC-1</b> Model <b>SC-2</b> <b>M</b> Series	2	B
PVA-3	0.010	Quick-Connect, Male	Hand-held N <sub>2</sub> Analyzer, Model <b>NA-1*</b>	Model <b>SC-1</b> Model <b>SC-2</b>	1	A
PVA-4	0.010	Quick-Connect, Female	Hand-held N <sub>2</sub> Analyzer, Model <b>NA-2***</b>	Model <b>SC-W</b>	3	C

\* Refer to Data Sheet UFS-316A

\*\* Refer to Data Sheet UFS-317B

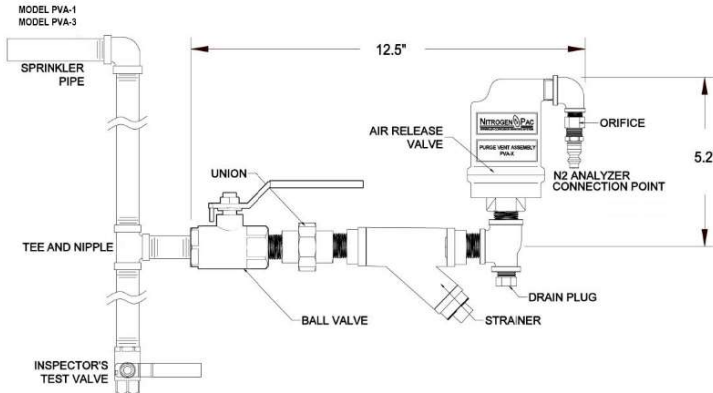
\*\*\*Refer to Data Sheet UFS-316B

**UNITED Fire Systems**

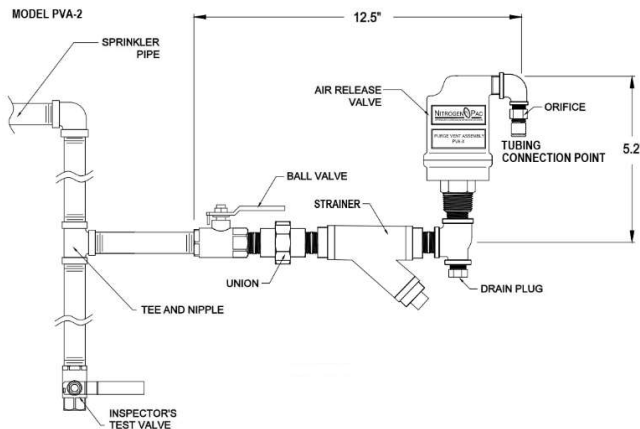
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This literature is provided for informational purposes only. UNITED Fire Systems assumes no responsibility for the product's suitability for a particular application. The product must be properly applied to perform as intended.

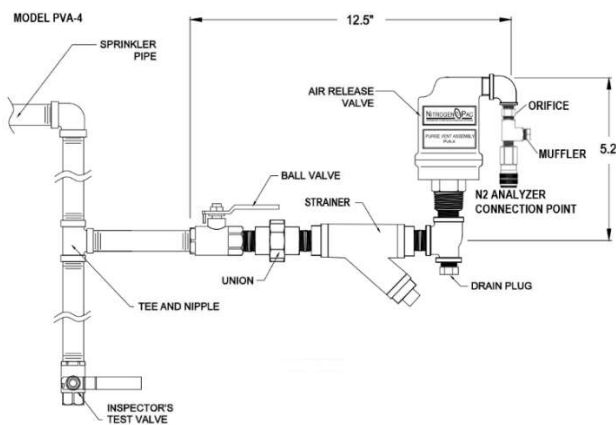
### PURGE VENT ASSEMBLY – MODEL PVA



**INSTALLATION – FIGURE A**



**INSTALLATION – FIGURE B**



**INSTALLATION – FIGURE C**

#### NOTES

1. For proper operation, install units upright as shown in installation figures
2. Units are factory-assembled – DO NOT disassemble.
3. Union may be used for proper orientation of unit at installation.
4. See Figure 1. Optional muffler assembly P/N 31-10020-101 is available for attachment to **Model PVA-1** and **Model PVA-3** quick-connect outlet. Addition of this assembly should provide approximately 15 dB noise reduction at PVA location. Remove muffler assembly for attachment of hand-held N<sub>2</sub> analyzer.
5. Muffler is not necessary for **Model PVA-2**. Tubing carries air / nitrogen to **TRUE ADVANCED PURGE™ Model TAP-G3** location. **Model TAP-G3** is factory-equipped with exhaust mufflers.
6. **Model PVA-4** is factory-equipped with exhaust muffler.
7. Units include ball valve, union, strainer, drain plug, float valve, orifice, and N<sub>2</sub> analyzer connection point.
8. All units – Inlet is 1/2 inch NPT female.

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