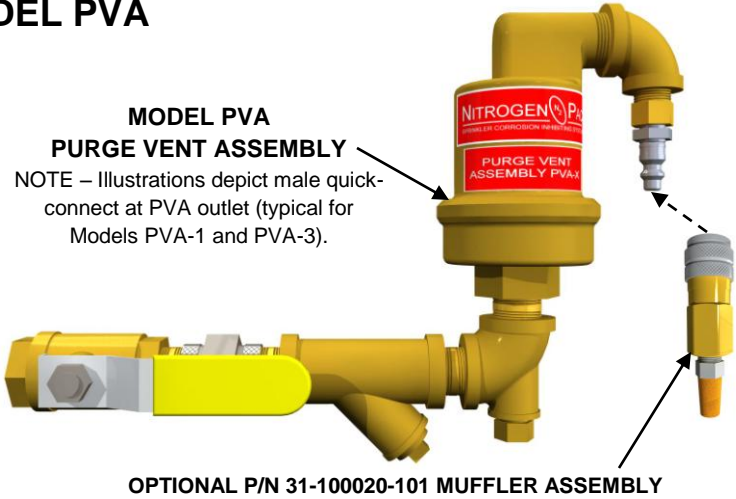


NITROGEN-PAC ACCESSORIES

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

Description

The UNITED Fire Systems Model PVA 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.



**MODEL PVA
PURGE VENT ASSEMBLY**
NOTE – Illustrations depict male quick-connect at PVA outlet (typical for Models PVA-1 and PVA-3).

OPTIONAL P/N 31-100020-101 MUFFLER ASSEMBLY

FIGURE 1

Specifications

Model Number	Orifice Size (inch dia.)	Connection Point Type	N2 Measurement Method			NITROGEN-PAC Product Series	
			NA-1	NA-2	TAP	M	SC
PVA-1	0.016	Quick-Connect, Male	X			X	
PVA-2	0.016	Push-to-Connect Fitting for Tubing			X	X	X
PVA-3	0.010	Quick-Connect, Male	X	X			X

NA-1 = Hand-held N2 Analyzer – see data sheet UFS-316A
NA-2 = Hand-held N2 Analyzer – see data sheet UFS-316B
TAP = True Advanced Purge system – see data sheet UFS-317A

Notes

1. All PVAs include ball valve, union, strainer, drain plug, and float valve.
2. PVAs include orifice and N2 analyzer connection point per above table.
3. Unit is factory assembled – DO NOT disassemble.
4. See applicable UNITED Fire Systems NITROGEN-PAC™ manual for selection of correct PVA.
5. See Figure 1. Muffler assembly P/N 31-100020-101 is available as an option for attachment to PVA-1 and PVA-3 quick-connect outlet. Assembly should provide approx. 15 dB noise reduction at PVA. Muffler may be removed for attachment of hand-held N2 analyzer.

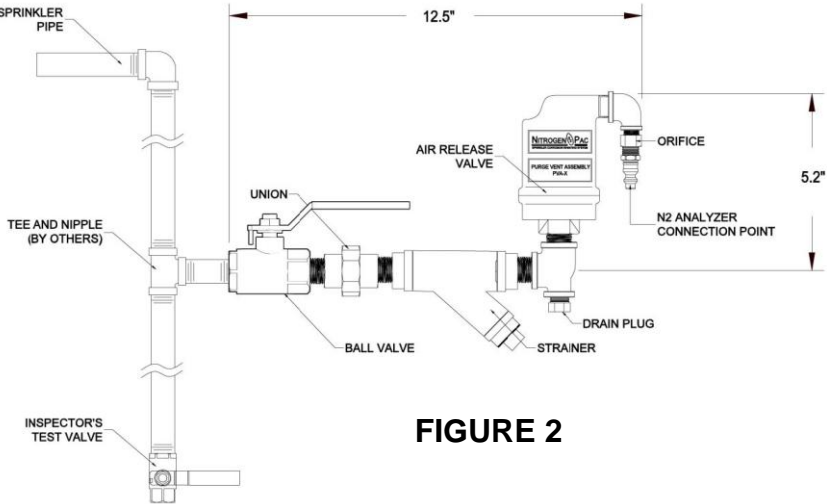


FIGURE 2

UNITED FIRE SYSTEMS

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