

## Features

- Automatically purges corrosive oxygen from a fire sprinkler system.
- Built in nitrogen analyzer for continuous monitoring of N<sub>2</sub> levels in the sprinkler system.
- Local display allows visual indication of nitrogen level and purge time.
- LED's for Power, Purging Status and Trouble conditions
- Unique IntelliDry purge mode for ice plug and freezer application.
- Used in conjunction with INS-RA remote annunciator for networking capability.
- Form C dry contacts for Building Management System (BMS) notification.
- Includes UL listed and FM approved float type vent for fire protection service (175 PSI service pressure rating) that automatically closes when water reaches the vent in the event of a system activation.



## Description

The INS-PV Potter IntelliPurge® Nitrogen Purge Valve is designed to work with Potter Nitrogen Generators to effectively purge corrosive oxygen from a fire sprinkler system. Potter's INS-PV is the easiest and most effective way to ensure that high purity nitrogen is equally distributed throughout the fire sprinkler system. Simply install the INS-PV at a remote point in the fire sprinkler system and start the purge cycle. The built in nitrogen analyzer samples the exiting gas, providing up to date information on the nitrogen levels in the fire sprinkler system. Once the INS-PV has measured that the fire sprinkler system has reach 98% N<sub>2</sub>, the unit automatically stops purging and signals a successful purge. Even after the system has stopped purging, the INS-PV periodically samples the gas within the sprinkler system, ensuring that the fire sprinkler system is at 98% N<sub>2</sub> and the fire sprinkler system is protected. Dry contacts are provided for BMS notification. Using the optional INS-RA Remote Annunciator up to 27 INS-PV units can be networked together, allowing for large nitrogen applications to be easily controlled and monitored from one convenient location.

## Installation

The INS-PV must be installed at the furthest point from the riser On the fire sprinkler system. 24 Volt AC/DC power is required.

### NOTICE

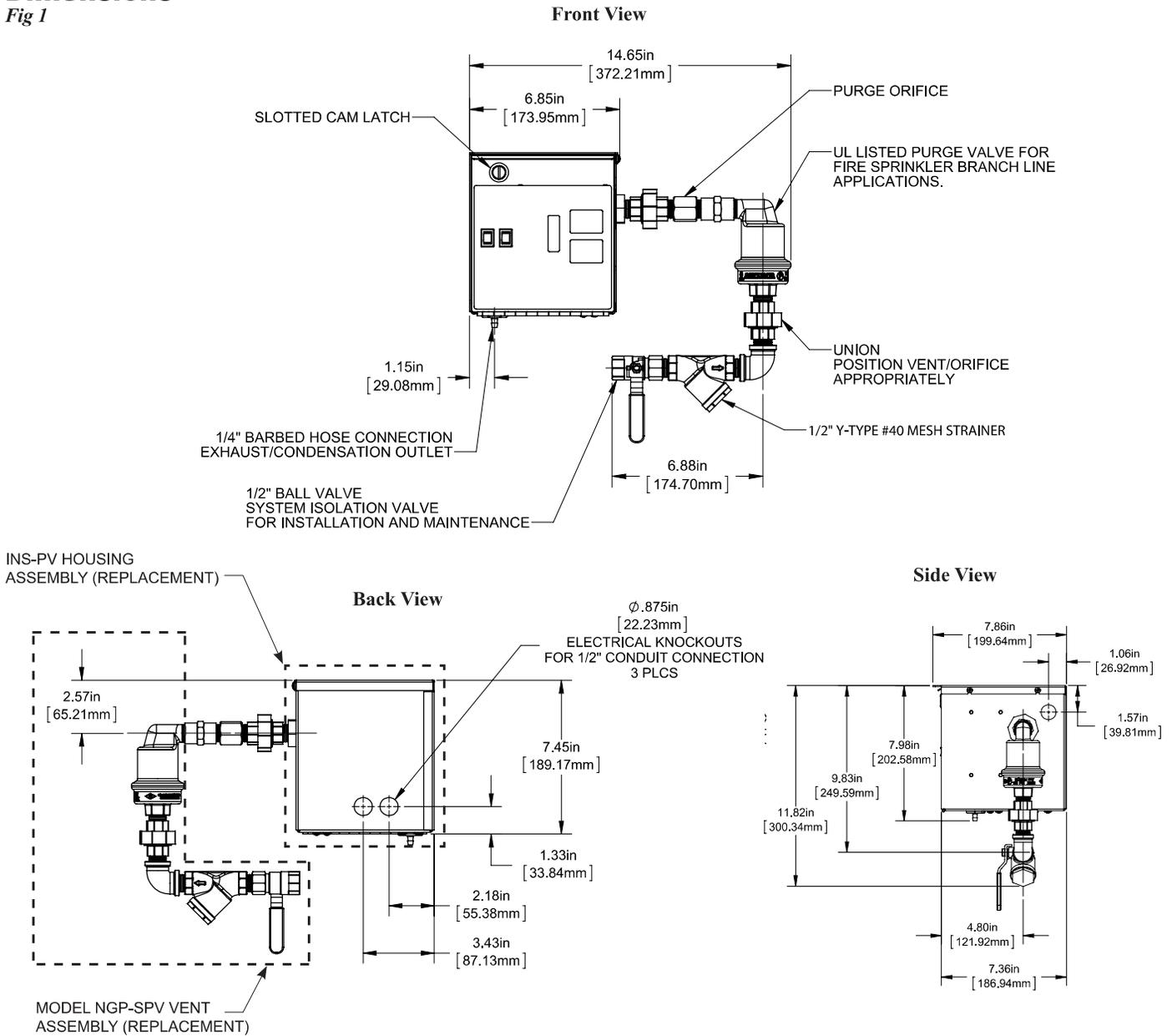
Install in accordance with IntelliPurge® Installation Manual #5401532

## Technical Specifications

Power Requirements	24 Volt AC/DC, 1.5 A
Operating Temperature	-4°F-122°F (-20°C-50°C) 10%-93% @ 86°F (30°C) non-condensing humidity
Operating Pressure	Maximum air pressure entering INS-PV must not exceed 100 PSI
Maximum INS-PVs (Networked)	27
Maximum Wire Length (Network)	4000 ft. when using un-shielded 24 AWG stranded CAT5 equivalent or higher rated network cable. Contact technical support if longer wire length is required.
Size (WxHxD)	7.3" x 6.8" x 7.9"
Wire Gauge	14 AWG - 24 AWG

**Dimensions**

Fig 1



**Ordering Information**

Model	Description	Stock No.
INS-PV	IntelliPurge® Nitrogen Purge Valve	1119478
NGP-SPV Replacement	Vent Assembly Replacement	1119474
	INS-PV Housing Assembly Replacement	1119473
	Optional AC Power Transformer 24 VAC, 40VA	5270462