



Download ASD InspectPro™



PURGEPORT PRO™

Patent Pending

(SMARTPOINT SERIES™)



Air sampling smoke detectors (ASD) are widely used in critical environments, including data centers, cold storage, industrial and commercial facilities. These detectors rely on a network of sample pipes installed within the protected area that draw ambient air through sample holes to a central detection unit. Over time, dust, lint, and airborne contaminants can accumulate inside the pipe network and over sample holes, compromising airflow and sensor performance. In cold storage applications, the accumulation of moisture can lead to ice plug formation, further obstructing airflow.

PurgePort Pro is an industrial-grade, fail-safe inline check valve engineered for automated purging and maintenance of Air Sampling Pipe Networks. Designed specifically for use with ASD systems, this innovative valve features a pneumatically actuated check valve that automatically isolates the detector during purge operations, ensuring debris and harmful pressure does not reach the detector.

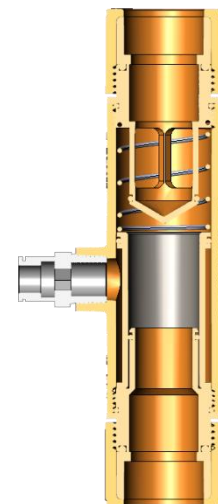
Built for durability, reliability and ease of integration, the valve maintains a full 3/4" inner diameter for unrestricted airflow in normal operation. When compressed air is applied, the valve redirects airflow by first sealing the pathway to the detector then opens a purge path to the pipe network – automatically restoring to its default position once pressure is removed. Any residual pressure remaining within the pipe network is automatically exhausted ensuring unsafe pressure is not present at the detector once flow is restored.

PurgePort Pro is equipped with NFC smart chip technology for permanent storage and retrieval of commissioning records and inspection data (IOS/Android compatible). Data stored includes installation date, associated detector and pipe number (multi-pipe systems), inspection history, next inspection due date, last purge date/pressure/duration, and a unique serial number for asset management and traceability.

Unlike traditional methods, which usually entails a manually operated ball valve to isolate the ASD detector, PurgePort Pro can easily be integrated with automated purge systems connected to plant air, such as ASD Accessories, LLC SureFlow Pro™ multi-port purge controller, eliminating human intervention, failure points, and the need for costly electronic solenoids.

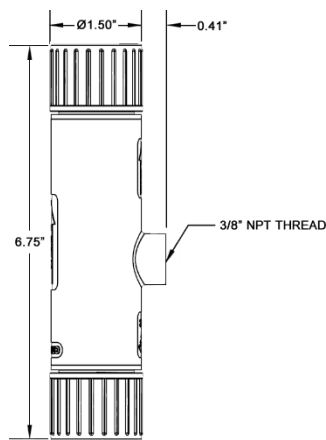
Features

- **Purpose-Built Design.** Simple, reliable, fail-safe purging of Air Sampling Pipe Networks.
- **Automated Operation:** Actuates purge pathway without manual or electronic valves.
- **Contaminant Isolation:** Prevents backflow of purge air or fluids to the ASD detector.
- **Unrestricted Flow Pathway:** Maintains 3/4" ID to match standard ASD pipe networks.
- **Smart Chip Enabled:** Integrated NFC Smart chip technology for storage and retrieval of commissioning parameters and inspection data.
- Compatible with ASD InspectPro™ App for commissioning and inspection management (IOS/Android)
- **Reduced Parts:** Doubles up as an inline union fitting, facilitating disconnection of pipe from the ASD unit without disrupting pipe installation, detector, and without the need for additional components.
- Optional inline stainless steel reusable 20µm filter insert. When used, pre-filters coarse airborne particulate from reaching the detector. Easily removeable for cleaning and reuse.
- **Automation:** Optional **SureFlow Pro™** automated 4-port purge controller.
- Purge inlet accepts standard 3/8" NPT fittings. Industrial plug or pneumatic push connect fittings available.



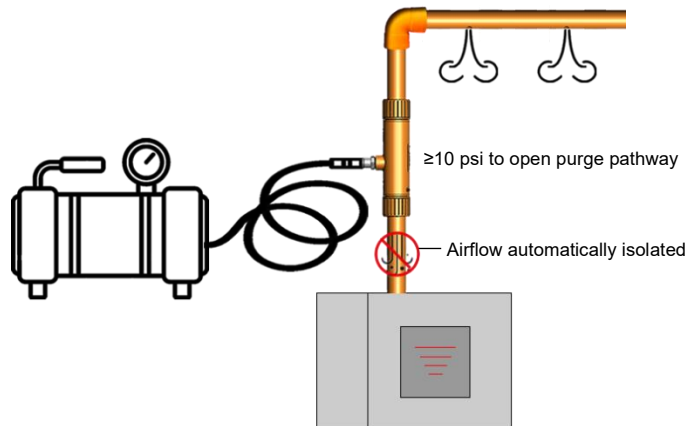
PurgePort Pro™
ASD-CLN-T-34
(Section View)

Dimensions

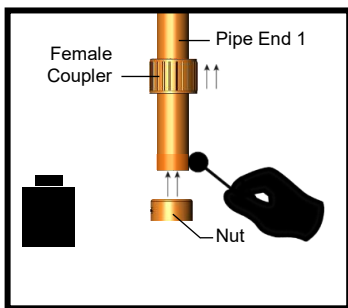


ASD-CLN-T-34
(material: Body-ABS | Union Fittings-CPVC)

Application Example

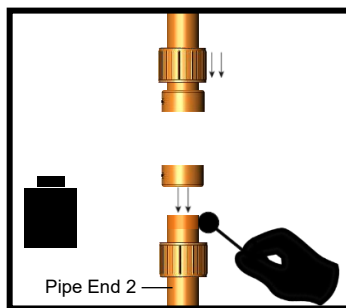


Installation Instructions



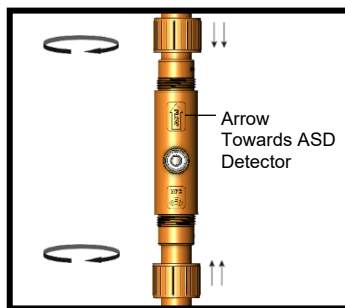
STEP 1

Slide female coupler over one end of pipe. Lightly coat mating surfaces with CPVC one-step cement then push on coupler nut to weld in place.



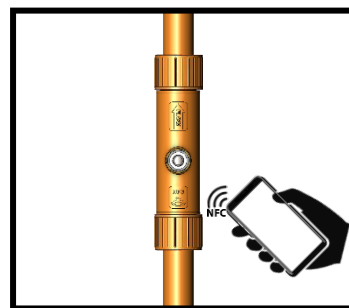
STEP 2

Repeat Step 1 on mating pipe end. Ensure threads are facing out towards pipe ends.



STEP 3

Insert PurgePort Pro body with airflow arrow towards ASD detector, bring the female couplers together, rotate couplers to tighten and secure



STEP 4

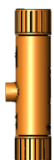
Use ASD InspectPro™ App on your IOS or Android device to scan in and document

Specifying

Air Sampling Smoke Detection (ASD) sampling pipe networks shall be fitted with an inline purge valve at each detector connection to enable automated purging and protect the detector from contamination and overpressure without the need of ball-type manually actuated valves, which can be left partially or fully opened, compromising detection performance. The valve shall be purpose-built for ASD systems and feature a pneumatically actuated, fail-safe check mechanism. In its default state, the valve shall allow unrestricted 3/4" airflow. During purge, it shall isolate the detector and redirect flow to the sampling pipe network, automatically exhausting residual pressure before returning to normal operation. The valve shall also serve as an inline union fitting, allowing detector disconnection without disturbing fixed piping. A purge inlet shall accept standard 3/8" NPT fittings. The valve shall include an embedded NFC chip for secure storage of commissioning and inspection records, purge history, and a unique serial number, accessible via a compatible iOS/Android app. An optional reusable 20µm stainless steel filter shall be available for coarse particulate pre-filtration. The valve shall support integration with automated purge controllers without the need for solenoids or manual valves. Valve shall be PurgePort Pro™ by ASD Accessories, LLC, or approved equal.

Ordering Info

- **ASD-CLN-T-34** (PurgePort Pro Check Valve Assembly)
- **ASD-14-38-IND** (1/4" Industrial Quick Connect x 3/8" NPT Fitting)
- **ASD14-38-PTC** (1/4" Tube x 3/8" NPT Push to Connect Pneumatic Fitting)
- **ASD-CLN-F-34S** (Optional Stainless Steel 20 Micron Reusable Inline Filter)



CLN-T-34
PurgePort Pro



14-38-IND
1/4" Plug x 3/8" NPT



14-38-PTC
1/4" Tube x 3/8" NPT



CLN-F-34S
Optional Inline Filter