



# Industrial Products Corporation

"Protecting Plant, Property and Personnel since 1996"

"Your Protection Connection"  
[www.ipcprotects.com](http://www.ipcprotects.com)

November 2009  
866.4HAZLOC

## Feature: Purge / Pressurization



Dear Customer,

IPC Protects - and that is exactly what we have been doing for over thirteen years. When I started Industrial Products Corporation in 1996, I did not want to be just another Rep firm or process instrumentation distributor. I wanted a company that brought out all of my strengths in teaching and training, as well as provide a real service to Industry - one that would expand on my experience and help others. That is why IPC has been focused on Electrical Safety in Hazardous Locations since the beginning. We are a resource for knowledge, education, and training, as well as a source for the products to protect plant, property and personnel.

This newsletter is designed as a tool to keep our very valued customers informed of the latest technologies and training in our areas of expertise. Protecting Industrial infrastructure has expanded beyond just hazardous locations and includes all connections between the control system and the field instruments. We will highlight a specific product or technology in each issue and invite you to learn. As always, we welcome your feedback. Feel free to call or write anytime. My staff and I are ready.

Kindest regards,  
David P. Lambert

### IPC'S OFFERINGS:

- [INTRINSIC SAFETY](#)
- [EXPLOSIONPROOF ENCLOSURES](#)
- [PURGE/PRESSURIZATIONSYSTEMS](#)
- [LIGHTNING & SURGE PROTECTION](#)
- [GAS DETECTION](#)
- [FIELDBUS](#)
- [ETHERNET](#)
- [HART](#)
- [INDUSTRIAL WIRELESS](#)
- [INDUSTRIAL PC WORKSTATIONS](#)
- [PROCESS I/O FOR HAZARDOUS](#)
- [NEMA ELECTRICAL ENCLOSURES](#)
- TRAINING SEMINARS:**
  - [HAZARDOUS LOCATION INSTALLATIONS\(DOMESTIC & INTERNATIONAL CODES\)](#)
  - [GAS DETECTION](#)
  - [SURGE PROTECTION](#)
  - [FIELDBUS](#)
  - [INDUSTRIAL WIRELESS](#)
  - [TOFINO](#)

### Purge / Pressurization Systems: What you need to know.

**What is Purging?** The process of supplying an enclosure with a protective gas, at a sufficient flow and positive pressure to reduce the concentration of any flammable gas or vapor initially present to an acceptable level.

There are three types of Purge Systems to choose from, depending on your needs: X-, Y- and Z-Purge Systems.

**X-Purge:** Type X pressurizing reduces the classification within a protected enclosure from Division 1 to non-classified.

**Y-Purge:** Type Y pressurization reduces the classification within a protected enclosure from Division 1 to Division 2.

**Z-Purge:** Type Z pressurization reduces the classification within a protected enclosure from Division 2 to non-classified.

Each type of Purge System utilizes one of two methods of creating flow and pressurization: Continuous Flow and Leakage Compensation.

**Continuous Flow (CF):** 0.4 SCFM to 8.0 SCFM flows through panel. Flow Rate depends on Orifice Plate Size selected. Air flow is "continuous."

**Leakage Compensation (LC):** Enclosure is Purged 4 volume changes. After 4 volume changes, air flow rate is minimized. Air is then used as needed for LC. Pressure maintained at >0.2 in.WC (NFPA 496 = .1")

**What are some applications for Purge Systems?** Instrumentation Panels; Local Control Panels; Motor Control Panels; Motors; Analyzer Sheds; Hazardous Gas Analyzers; Computer Work Stations; Rooms!



(Purged Panelview Enclosure)



(Z-Purged Enclosure)

### **Why does IPC represent Expo Technologies?**

- + **Simplicity of Direct Mount:** No interconnecting tubing between the Enclosure & Purge System
- + **Large Local "ALARM" Indicator:** Can be viewed from any angle up to 180°. Built onto the standard system - no hidden extras.
- + **Small Purge System:** Half the Size and Half the Weight
- + **Small Relief Valve:** Half the Size and Half the Weight
- + **Small Installation Cost:** No interconnecting tube and fitting, reduced labor and purchasing. Only one person is required when installing the Mini-X-Purge system because of size and weight - reduced labor.
- + **Small Mini-Z-Purge:** "Panel Mount" - Small, it can be mounted in the wall of most purged enclosure for that clean practical look. Pharmaceutical, Food, Petrochemical and other major industries.
- + **Small Mini-X-Purge:** "Panel Mount" - Small, it can be mounted in the wall of most purged enclosure for that clean practical look. Pharmaceutical, Food, Petrochemical and other major industries.
- + **Larger Choice of X Purge Systems:** The Mini-X-Purge has a choice of 3 MIU's (MiniPurge Interface Units) with different power ratings for the disconnection of power.
- + **Larger Range of X Purge Approvals:** The Mini-X-Purge comes with FM, cUL - Class I & II Group A through G, European ATEX and Australian certification as standard.
- + **Effective Purging:** All the Expo Purge Systems measure the flow on the outlet for proof of effective purging - as required by all HazLoc standards.
- + **Simple and Safe Installation:** Install the X, Y or Z MiniPurge System on the top or on the side near the top and the Relief Valve on the side, near the bottom of the purged enclosure for effective purging of the whole enclosure. The Relief Valve is so small it will not be a hazard when located near the bottom of the enclosure.
- + **Simple Pricing:** Most competitive in the industry. The Price of a MiniPurge system includes the Control Unit and the Relief Valve as one part number - reduced purchase cost.

Check out our website, [HERE](#).

Would you like to learn more about Purge / Pressurization? We offer training at your facility! Call or [click](#).

For more info, please visit our website:

- [Home](#)
- [Product Listing](#)
- [Seminars & Training](#)
- [Contact Us](#)

Join Our Mailing List!