



Issue 2 - May, 2004

“Spotlight on Applications”

from *The Purge & Pressurization Specialists*

Small Electrical Motors with a General Purpose Rating are easily made safe for use in Class I, Div. 1 & 2, Group A, B, C, and D Hazardous Locations with Expo Technologies MiniPurge Systems.

Problem: Small Electrical Motors are required to drive a variety of pumps & machinery in today’s Pharmaceutical and Chemical Plants. Quite often, the applications are in Hazardous Locations with the presence of gas/vapors such as Acrolein, Butadiene, Ethylene Oxide, Hydrogen, Propylene Oxide & others. Explosion Proof Motors rated for Class I, Div. 1 & 2, Groups A, B, C, and D may be used, however, they can be very expensive. Are there any alternative solutions? Yes, indeed !!!

Solution: Purge a General Purpose Motor with a MiniPurge System manufactured by Expo Technologies, Inc. The MiniPurge is available in either Type ‘X’ or Type ‘Z’ Models suitable for use in Division 1 & 2 areas respectively. Expo MiniPurge Systems for Motors are cULus & FM Approved for use in Hazardous Locations. In addition, the ‘X’ Type carries ATEX Certification. The complete motor and purge system assembly complies with the NFPA 496. The classification in the motor is effectively “reduced” from Division 1 or 2 to non-hazardous.

Conclusions & Benefits:

- Customer is spared the high cost of an XP Motor.
- Lower equipment and installation costs.
- Purge System is completely pneumatic in operation.
- Purge System monitors and controls motor power.
- Customer now has a “single source” for all Small Electric Motors for both Hazardous and Non-Hazardous Locations.
- Z Purge System includes an Alarm Switch.
- X Purge System includes Power and Alarm Relays.

Below: Mini-X-Purge System mounted on small motor.



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