

AUTOMATIC PURGE SYSTEM



DESCRIPTION

Corrosive process vapors or solvent vapors which condense at ambient temperatures present a problem during pump startup or shutdown. Should a condensable vapor enter an oil-sealed vane vacuum pump still cold at startup, it may condense and wash out or dilute the sealant thus causing vane wear and exposure of the metallic parts to corrosion. However, during normal operation the sealant in an oil-sealed pump is continuously renewed and protects the metal surfaces from corrosion.

Dry vacuum pumps are also affected by condensable vapors. Damage may occur if a condensable corrosive vapor enters a dry pump still cold at startup. The solution is to warm up the oil-sealed or dry vacuum pump before admitting the process stream, and also purge the pump of all process vapors before shutting it down.

FEATURES

- Can be supplied in either NEMA 4 or 7 configuration
- Control panel is prewired and designed to operate with a Busch starter
- Startup and shutdown times are independently adjustable over a wide range
- Purge gas is not limited to atmospheric air; other suitable gases can be used
- Optional panels are available with on/off or modulating process valve
- Includes terminal strip for tie-in interlocks
- Custom designs available upon request

On startup, the Busch Automatic Purge System allows the vacuum pump to operate for a preset time with the process valve closed and the purge valve open to warm up the pump. After the time has expired, the process valve will open, and the purge valve will close automatically, allowing the pump to pull on the process. At the end of the process cycle, depressing the stop button causes the process valve to close and the purge valve to open, while the pump continues to operate. This allows the process vapors to be purged from the pump. When the preset time expires, the pump stops automatically.

The Busch Automatic Purge System consists of a pneumatic actuated process valve (controlled by a solenoid valve), a solenoid valve for the purge, and a prewired control panel containing a logic module, push buttons, and terminal strip for tie-in of pump instrumentation. The logic module also provides status indication for pump instrumentation.

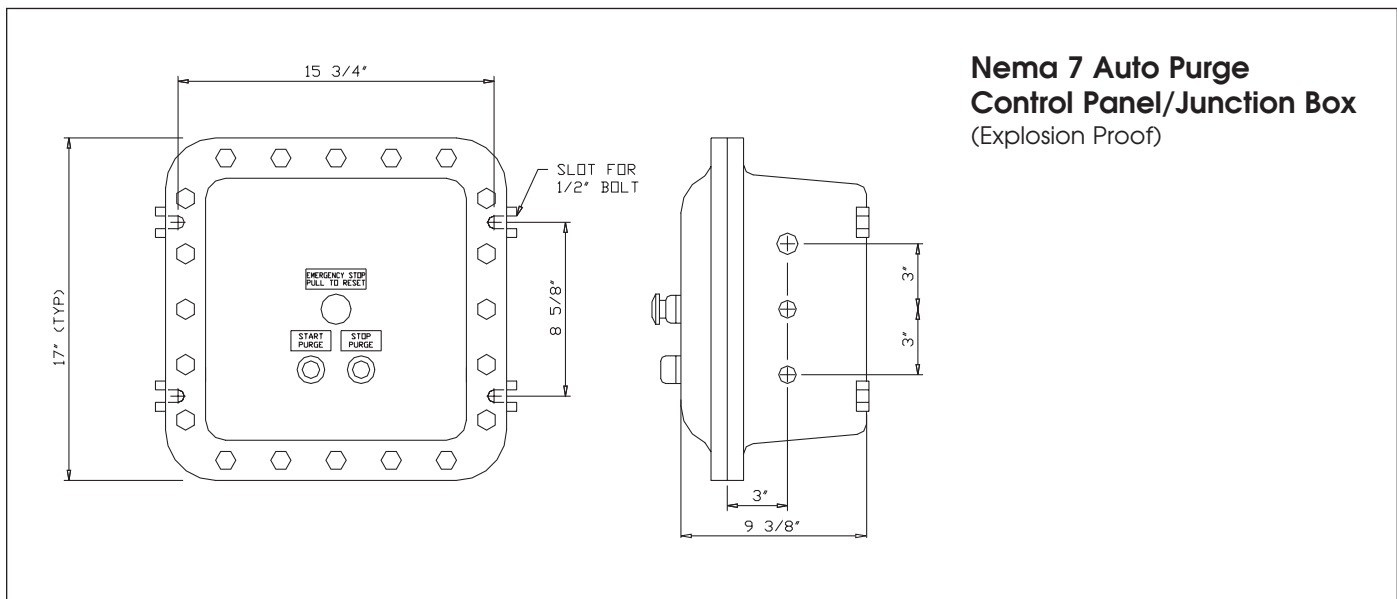
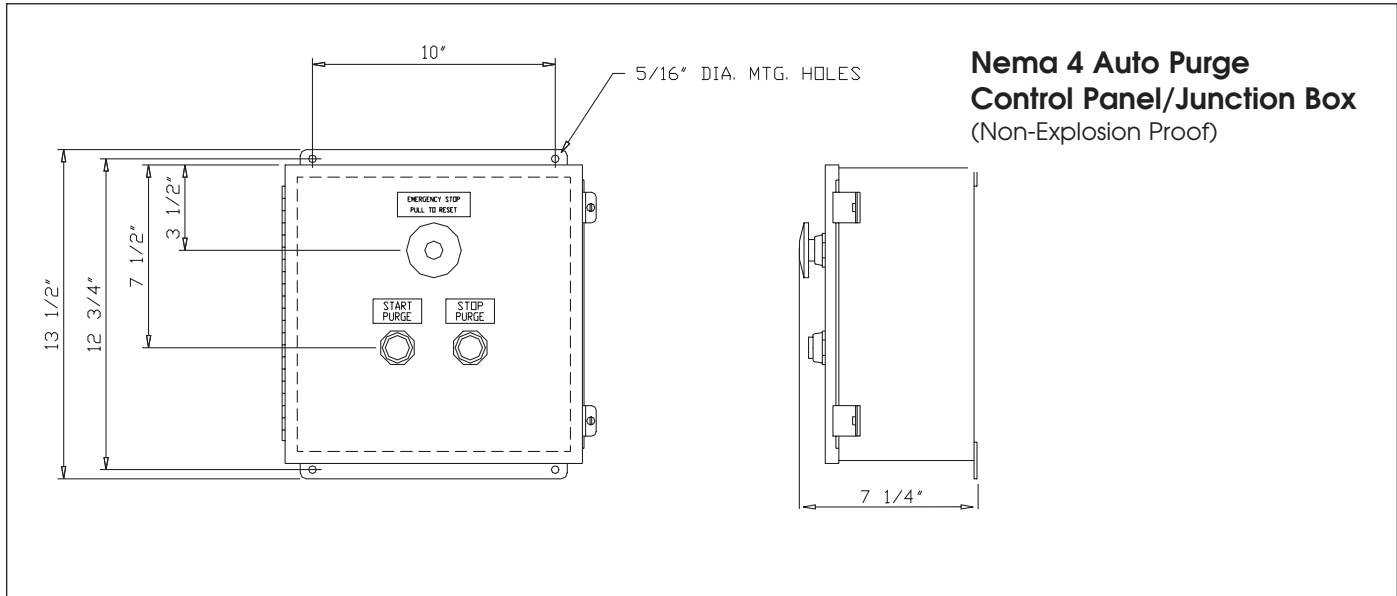


Nema 7 Control Panel/Junction Box

AUTOMATIC PURGE SYSTEM



DIMENSIONAL DATA *



*Typical drawings shown — may vary with application; contact factory for more information.

Busch, Inc.
516 Viking Drive
Virginia Beach, VA 23452
Phone (757) 463-7800
FAX (757) 463-7407
www.buschpump.com

For more information call
1-800-USA-PUMP

ISO 9001 Registered Company

Holland, Spain, Switzerland, Sweden, Turkey, Denmark, England, Australia, Italy, France, China, Germany, Taiwan, Japan, Austria, Canada

Models and specifications are subject to change without notice.

APS-09-12/01-2M