

Filling Station

Working with a leader in the gravimetric dispensing industry to provide Ex p protection solutions for flammable applications



Project Brief

Provide a complete Ex p solution with power isolation for an existing system requiring FM approval for flammable filling duty.

Challenges

Customer's typical environment is heavily laden with solvent fumes

Provide a purge and pressurization system meeting international certifications as well as FM

Easy integration of a purge and pressurization system to their system

Requirement for minimal operator interactions and maintenance

Long service life and minimal downtime

Full power isolation capability in the event of system fault

Outcome

Expo was able to provide a cost-effective, off-the-shelf solution, comprising

- A standard X-Purge system with electronic timer was utilised to accurately control the required purge time for the system
- A MiniPurge Interface Unit (MIU) was utilised to provide for automatic system energisation once the purge cycle is completed, as well as automatic power isolation in the case of any loss of pressure in the pressurized system

Expo Products and Services

MiniPurge Type X

IECEx, ATEX & UL certified purge and pressurization systems for Zone 1, Class I Div 1 applications



Features

- Global approvals
- Purge flow capacity up to 900 NI/min
- Leakage Compensation or Continuous Flow
- Stainless steel enclosure construction

Expo's MiniPurge type X range provides a full purge and pressurization solution for electrical enclosures and other equipment installed in Zone 1 or Class I Div 1 hazardous environments. With a range of flow capacities up to 900 NI/min, the systems are suitable for large enclosures up to 5.4m³ volume.

[Click here](#) for more information.

MiniPurge interface unit (MIU)

IECEx, ATEX & INMETRO Ex d certified solutions for enclosure power and signal isolation.



Features

- Global Ex d approvals
- Isolates low power signals and up to 32 A power
- Compatible with MiniPurge & SmartPurge II
- Aluminium construction

Expo's Interface Units provide switching of power and signals to the pressurized enclosure, using a control signal from the purge system. This capability is required for enclosures installed in Zone 1/21 or Class I/II Div 1 hazardous locations.

[Click here](#) for more information.