

New! Totally Passive Explosion Protection System

Total Passive System

The ATEX Passive Protection System provides a venting and isolation valve solution to all your venting vessel applications.

Explosion Venting

Through the use of Standard Frangible Vents, Re-settable Explosion Doors and/or Flameless Explosion Vents the ATEX System provides the protection alternatives to meet your process operations.

Explosion Isolation

The ATEX Passive Isolation Valve provides a fully passive system that does not require active dust management or low Pred values to function properly. Metal to Metal seal eliminates temperature considerations and failures.



As long as ATEX has been providing Explosion Protection Systems a truly passive System without many unworkable constraints was not available. Either the system could not handle the product flow without major restrictions to the dust loading or it had to be monitored for dust fall out because of the design limitations. While the benefits of standard ATEX Active Control Systems eliminated many of the false activations and maintenance disadvantages of other systems it still required a high degree of maintenance procedures. Vent users were increasingly aware that protection of a Dust Collector or other process vessel required isolation to provide true protection against secondary and catastrophic events.

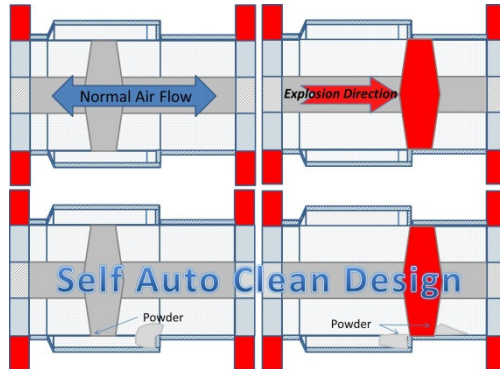
- Totally Passive approach eliminating the costly maintenance associated with active detection or monitored systems.
- Flexible use of venting approaches. Eliminates the low Pred requirement of some Flap and Pinch style valves.
- Eliminates Powder Blockage considerations from product fallout with clean-out technology. Monitoring of product build up not required.
- Field Flow and Pressure Adjustments to meet the most stringent process flow considerations.

ATEX engineers set about to provide a full passive System approach. Vent systems provided many options for venting. Solutions were available for many industrial applications. Vents were available that reset themselves and were flameless in design for indoor use. They lowered the costly inspections to visual and annual inspections verse the quarterly technically advances inspections required by active systems or those requiring active maintenance. But the options available for the necessary isolation function were limited with a decision based on benefits verse limitations. No true Passive Solution was available to industrial users.



ATEX
Explosion Protection

Passive Features and Benefits



To meet the need ATEX developed its clean out technology in a passive oriented system. A valve that could meet the product flow requirements of today's processes. The system would by Patent Pending Design clean out the isolation seal eliminating consideration of powder being compressed by the closure and allowing flame to pass. In addition many passive devices had additional problems with respect to air flow and pressure release. The ATEX pressure adjustment system compensates for process flow conditions allowing the pressure setting to be based on a differential between the normal process air flow and the flow and pressure associated with a deflagration. As promised with the ATEX Passive Explosion Protection System there is a passive solution to explosion protection

* As with any Explosion Protection System it must be installed, commissioned and operated in accordance with ATEX standard design criterion. Refer to ATEX Explosion Protections System Installation Requirements and Operational Manuals before attempting to install or operate a Protection System

Design Requirements

- Full Vessel Drawings showing all dimensions. For Bag House Style Dust Collectors the dimensions and quantity of bags is required.
- Product information including Kst, Pmax, Pred for the product conveying through the vessel.
- Process Drawings indicating dust lengths and sizes downstream and upstream of the vessel.
- Dynamic Vessel Strength if available or static strength if the dynamic strength is if not available.
- For vessels with existing vents the design data including Kst, Pmax, Pred, etc. is required.

SERVICES AVAILABLE

Technical Support
Installation and Setup
Maintenance
Application Support
Hardware Support
System Warranty



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TECHNICAL SUPPORT

ATEX provides full design support for all of its protection systems. Support includes System Design, Installation Drawings, Field Consultations, System checkout and maintenance. Our Florida warehouse has a full stock of spare parts for all systems.

ZERO DOWNTIME GOAL

While it is impossible for us to guarantee zero downtime all ATEX systems are designed to provide user friendly and maintainable systems.

SOLUTIONS

ATEX is a solutions approach company. Once a risk is determined ATEX provides many alternatives for Explosion Prevention and Protection of your processes. ATEX Venting, Suppression and Isolations Options provide the choices to meet protection and budgetary concerns of today's corporations.