

Fluidsentry Hydraulic Valve Components



Key Features & Benefits

- Meets B11.26 - 2018 Safety Standards.
- Suitable for category 3 & 4 applications as per ISO 13849.
- Options available for both hydraulic and pneumatic power.
- Monitors sudden pressure changes in the system.
- Communicates with safety control system.
- Dual channel redundancy provided by two valve options.
- Non-adjustable, non-tamperable device.
- Simple retrofit on existing systems.

Product Overview

Model	Image	Product Description	Maximum Pressure	Category		
				2	3	4
(H/P)PM-170AG-AD0-MPO		Cat.2 Single Channel Zero Pressure Monitor Rated For 210 Bar, Aluminium Construction M12 Switch Connection HPMActivation time: 32 Milliseconds Deactivation time: 50 Milliseconds	210 Bar 3,045 psi	●		
(H/P)PM-170SG-AD0-MPO		Cat.2 Single Channel Zero Pressure Monitor Rated For 350 Bar, Steel Construction M12 Switch Connection	340 Bar 4,930 psi	●		
(H/P)PM-270AG-AD0-MPO		Cat.4 Dual Channel Zero Pressure Monitor Rated For 210 Bar, Aluminium Construction M12 Switch Connection	210 Bar 3,045 psi	●	●	●
(H/P)PM-270SG-AD0-MPO		Cat.4 Dual Channel Zero Pressure Monitor Rated For 350 Bar, Steel Construction M12 Switch Connection	340 Bar 4,930 psi	●	●	●

Value Proposition

Helps to achieve the highest safety level (CAT. 4 PLE) for access control on equipment with fluid power.

Allows safe access to each zone by isolating fluid power from an individual zone without affecting downstream production.

Integrates well with both existing and new safety systems where residual fluid power must be depleted.

Acts as an interface between fluid power operation & electrical safety circuits machinery.

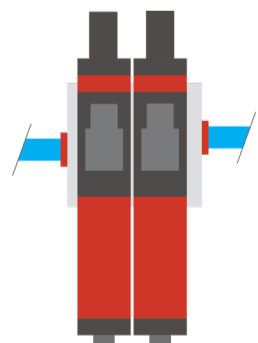
Qualifying Questions

- Does your machine consist of a pneumatic system? Does it follow the latest safety requirements?
- How do you isolate and control the pneumatic energy sources in your machine?
- How do you ensure that pressurised systems are in a safe state before operator access?
- How much time does your shut down/energy isolation procedure take? How much does this downtime cost?

Fortress offers you a complete safety solution

STOP

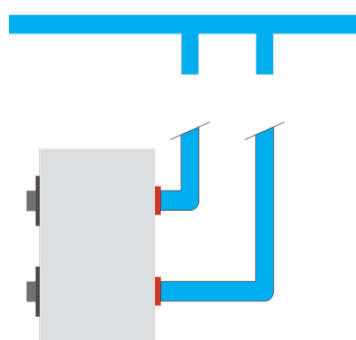
Isolate all forms of power existing within the control system: Electrical - Pneumatic - Hydraulic.



What happens if Air Supply is Re-initiated whilst inside the Guard?
The pneumatic monitored safety valve will **divert all supply to the exhaust ports.**

DETECT

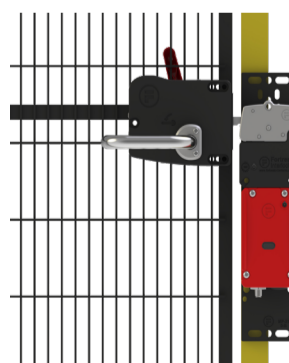
Detect the release of air pressure has reached the atmospheric level: confirm the load has been removed.



What happens if Zero Pressure is not Detected?
Safety contacts are mechanically driven directly by removed system pressure, ensuring the guard cannot open until pressure is zero.

PREVENT

Prevent access to the safeguarded space until safety is guaranteed.



How is Entry and Unexpected Restart Prevented?
Fortress devices can be designed with safety on guard locking, both preventing access until safe conditions of the system are met, and preventing restart of the system until safety contacts are made.