



## AVENTICS™ Series 500 Zoned Safety Valve Systems

The AVENTICS Series 500 valve systems have the ability to integrate multiple safety zones within a single valve system. This approach is called Zoned Safety. Emerson's Zoned Safety solution goes beyond the standard release of energy, or "dumping of air" practice by proving that predictable motion can be safe.

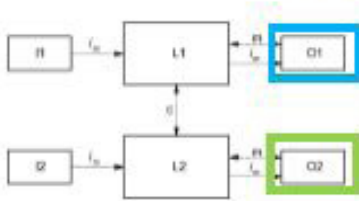


Zoned Safety technology, available with AVENTICS valve systems, simplifies the design of redundant pneumatic safety circuits. It enables up to three independent electro-pneumatic safety zones to be set up, while also allowing independent non-safe sections to co-exist within a single valve system assembly. Alternative solutions only enable the isolation of one zone per valve system, which increases cost and complexity.

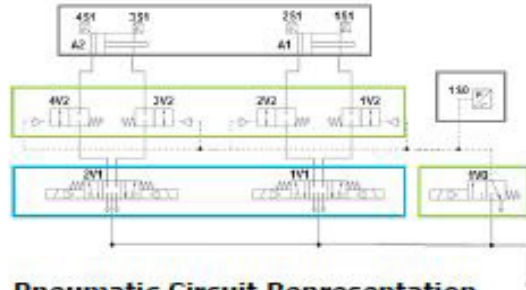
### Benefits of a Zoned Safety approach

- Ability to greatly simplify the design of a redundant pneumatic safety circuit with a valve system
- Less expensive approach to safety than circuits designed using dump valves and other components to achieve diverse redundancy
- Meets the requirements of Machinery Directive 2006/42/EC and the EN ISO 13849-1 standard

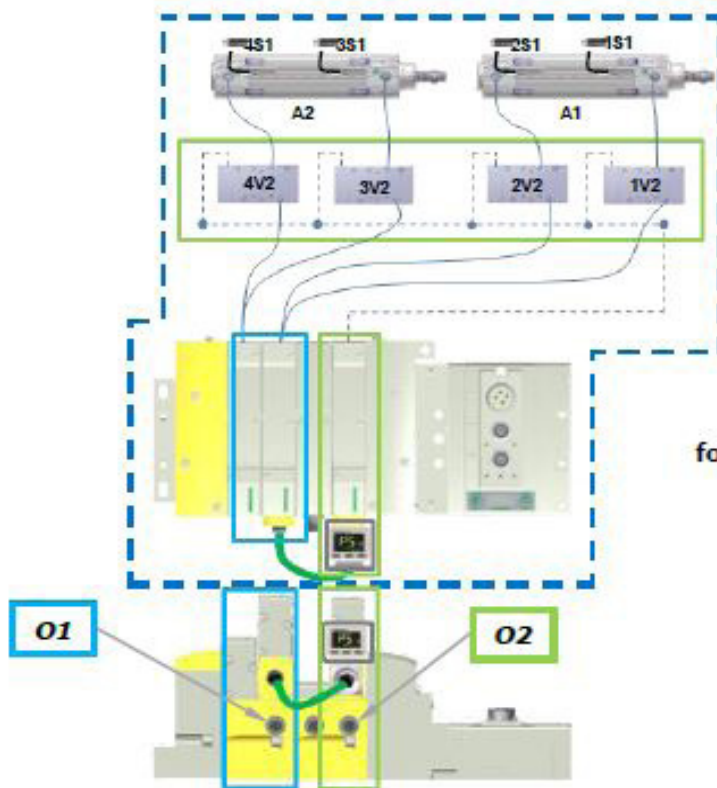
Below is an example of the Numatics 503 Zoned Safety manifold integrated into a Category 3 safety solution:



**ISO 13849-1 Cat 3 Designated Architecture**



**Pneumatic Circuit Representation for CAT 3 Designated Architecture**



**Physical Representation for CAT 3 Designated Architecture**

Catalog files, product configurators, and CAD Models are available for download at [www.emerson.com](http://www.emerson.com).

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