

# numatics®

## ZONED SAFETY MANIFOLDS

*Machinery Directive 2006/42/EC - ISO 13849-1*



The Zoned Safety Manifold has been evaluated by TÜV Rheinland® (Report No. 968/FSP 1228.00/14) to satisfy the requirements of ISO 13849-1 Type-B for use in pneumatic safety related applications. The Zoned Safety Manifold is part of a Safety System as a Safety Related Part (SRP) and can be used in Safety Systems up to Category 4 PLe, with appropriate external safety control functionality (e.g. monitoring, timing,

and insuring that adherence to all related Safety Standards are met. Per ISO 13849, the end user or third party organization must evaluate and certify adherence of the complete Control System (CS) including all SRPs. Reliability data of our pneumatic components can be given upon request. More details on sample applications and technical information can be found in our technical manual available on our website.

- **ISO 13849 Support up to Cat 4 PLe** (with appropriate monitoring and control functionality)
- **Ideal for Load / Unload Applications**
- **Up to 3 ZONE Capability in One Manifold**
- **Multiple SAFETY FUNCTION Capability in One Manifold**
- **Compatible With Various Safety Control Platforms** (with or without Pulse Test)
- **Fieldbus Support** (PROFINET, EtherNet/IP DLR, EtherCAT, POWERLINK, Modbus TCP)
- **SAFE / Non-Safe Sections in One Manifold!**

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\*The manufacturer or supplier of a machine must ensure that a risk evaluation is performed to determine the health and safety requirements for person involved in its operation. The machine must be designed and constructed in accordance with the risk evaluation. The final safety level must be calculated by the manufacturer or supplier of the machine in accordance with ISO 13849 standards, integrating the data of the complete system (e.g. architecture, inputs, logic, outputs and monitoring).

 **EMERSON**

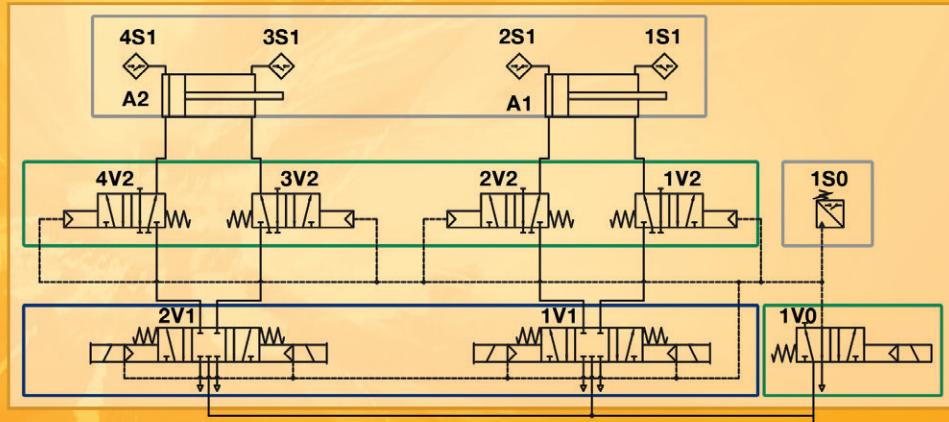
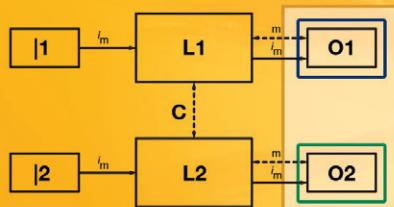
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# ZONED SAFETY MANIFOLDS

Pneumatic Circuit Representation  
for CAT 3 Designated Architecture

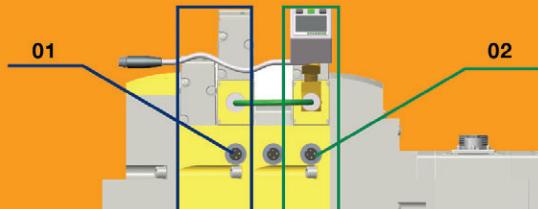
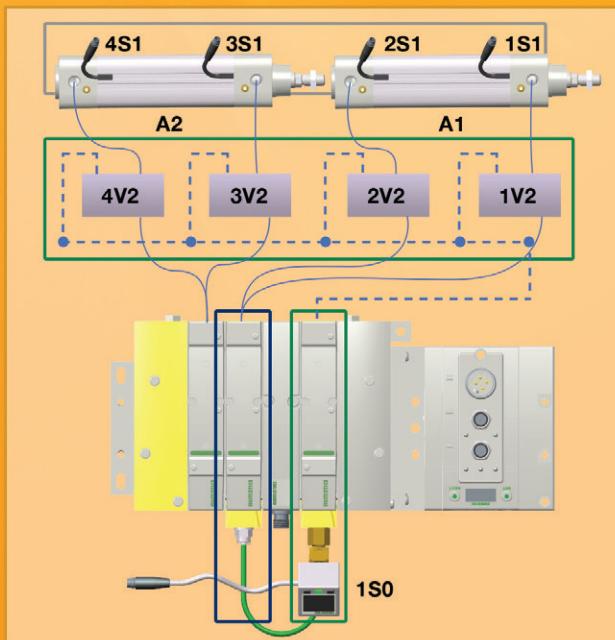
ISO 13849-1 Cat 3  
Designated Architecture



Physical Representation  
for CAT 3 Designated Architecture



The ZONED SAFETY MANIFOLD is an integrated pneumatic manifold assembly that includes the necessary SRP required to provide redundancy and monitoring for ISO 13849-1 compliance



Single, Zoned Safety Manifold shown;  
multiple actuator support within a Zone.

 **EMERSON**

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