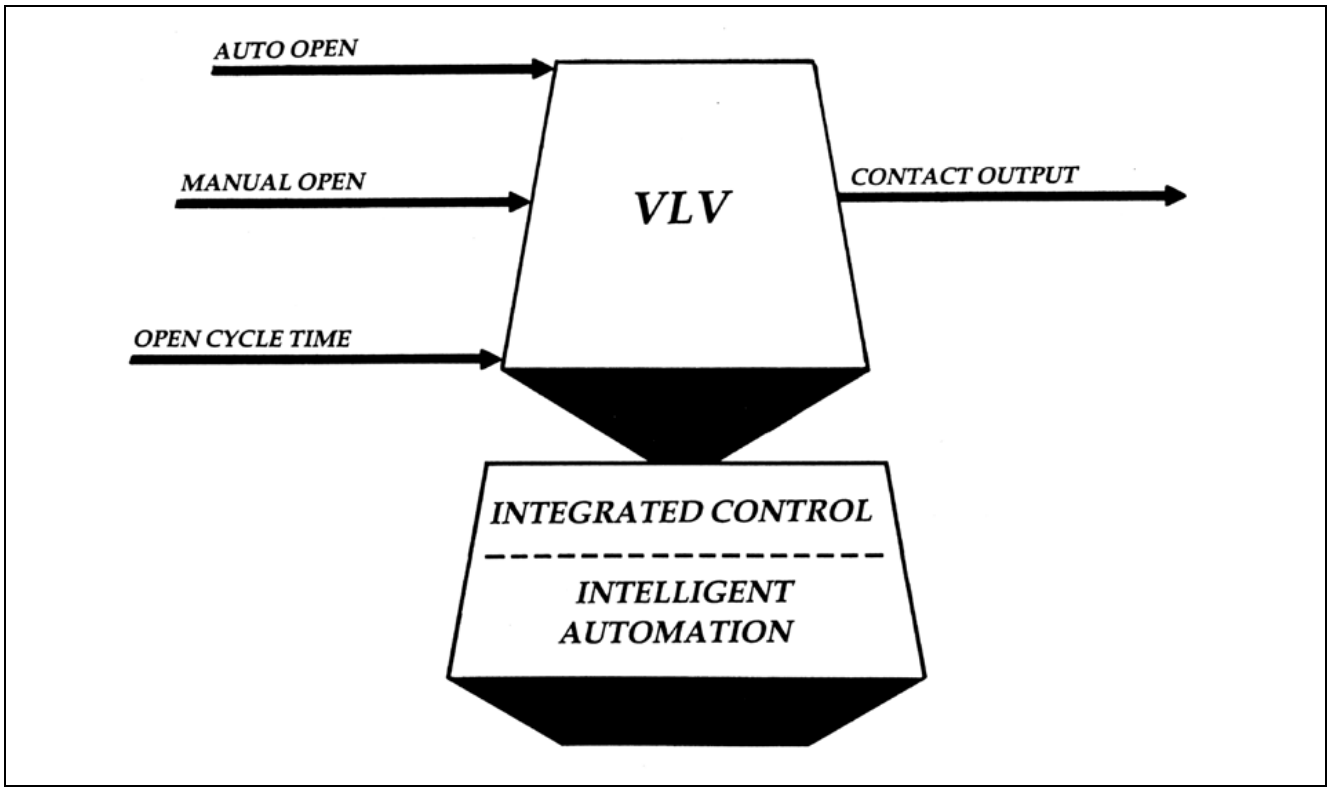
I/A Series® Software
On-Off Valve (VLV) Block



The VLV block provides open/close control of motor or air-operated valves. The block supports a 2-wire configuration using a single sustained output.

OVERVIEW

As an Open/Close valve controller, the block supports Auto-Open and Manual-Open capability as determined by the Manual/Auto state. In Manual, operator Open/Close requests are honored. In Auto, Open/Close requests from other blocks or tasks are honored.

Valve status feedback input is used with a timeout alarm parameter. Valve status input originates from a CIN or MCIN block. When the timeout parameter is enabled, alarming occurs when requested state of the valve does not match the sensed state within a user-specified time interval. Valve position is monitored by limit switches at the fully-open and fully-closed positions. When the valve reaches either extreme, the block generates an alarm for monitoring purposes. A disable mode inhibits VLV block operation to allow local control of field equipment.

The block output, contact output, is optionally mapped to the physical Fieldbus Module point by specifying the Letterbug identification and physical point number of the Fieldbus Module. The Fieldbus Module has sustained or momentary outputs. For valve control applications, a sustained Fieldbus Module output is recommended.

STANDARD FEATURES

- Manual/Auto control
- State alarming
- Valve limit switch monitoring
- Disable input to enable/disable block actions – can be used as a permissive input when driven by a local field contact for maintenance or local control functions
- Open loop detection

OPTIONAL FEATURE

- Inversion of limit switch inputs provided by CIN block

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