Vlv1In

CONTROL MODULE

On/off valve, one input, maintained or pulsed outputs

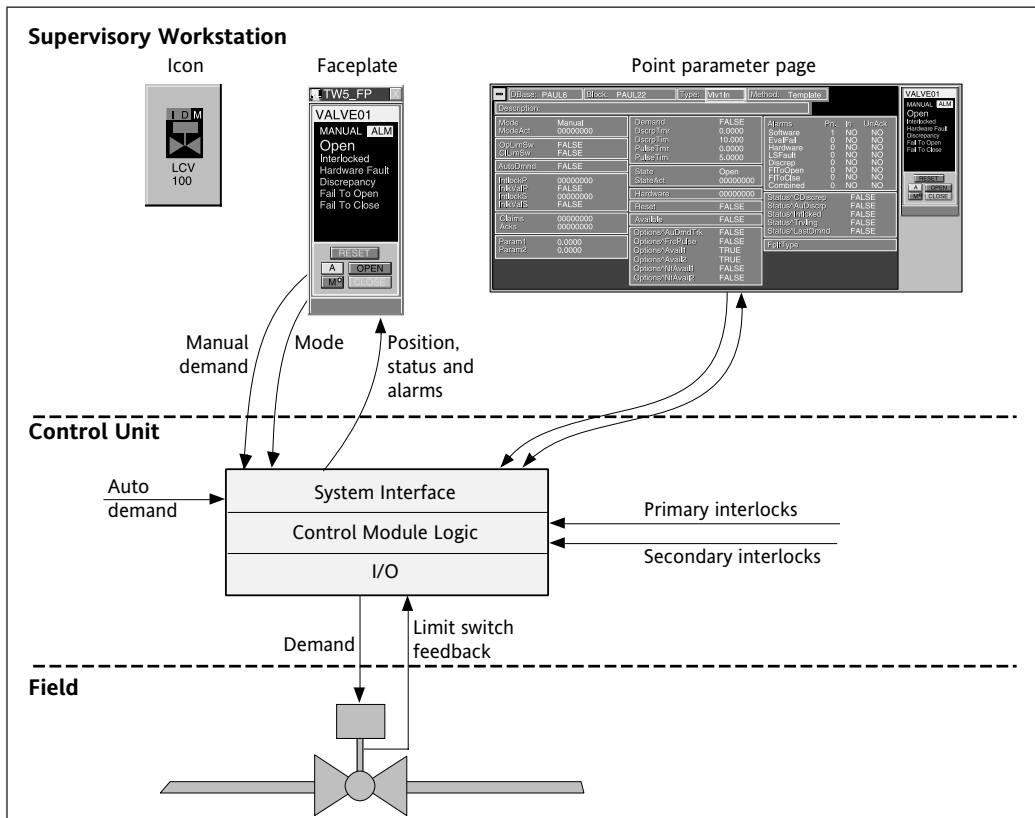## Standard Control Module Library

The Vlv1In control module is designed for an on/off valve with single limit switch input (feedback), offers a choice of maintained or pulsed outputs, and provides the following functionality:

- **Setting a valve demand (Auto/Manual)**
- **Standard supervisory workstation interface**
- **Standard software block**
- **Status and alarm display**
- **Operator faceplate**
- **Engineer point display**
- **Interlocks**

The Vlv1In control module forms part of a library of software function blocks designed to aid the implementation of valve control. Associated with each control module is a custom-built point fascia, an engineering point display and a graphical mimic icon for the supervisory workstation.

Applications
The control module offers the functionality required to drive a typical solenoid-operated valve. It can be applied to small bore valves used on pilot plant, to large bore valves on pipelines, etc.

OUTLINE SPECIFICATION

I/O

Limit Switch Input
A choice of open or closed limit switch

Maintained Demand Output
Maintained digital (Open/Close)

Pulsed Demand Output
Open pulse
Close pulse

Operating Modes

Manual/Maintenance
Allows manual operation of the valve

Automatic
Allows automatic operation of the valve

Interlocks

Primary Interlocks
Up to eight maintained digital inputs

Secondary Interlocks
Up to eight maintained digital inputs

The interlock demands override the Automatic and Manual demands, and a Primary Interlock overrides a Secondary.

Alarms

Hardware
Failure of associated I/O modules if required

Valve Position Discrepancy

Valve Failed to Open

Valve Failed to Close

Mimic Icon

Notations

A	Automatic mode selected
M	Manual mode selected
M (blue background)	Maintenance
I	Interlock active
D	Valve in discrepancy alarm
Line 1/Line 2	Textual control module tag or description

Colours

Red	Closed
Green	Open
Yellow	Opening
	Closing
	Unknown
Grey	Not communicating
Flashing	Flashing Block alarm

Faceplate

Valve Status

Mode
Displays Manual/Auto/Maint

Derived Status
Displays Closed/Open/Opening/Closing/Unknown

Interlocked
Displayed when valve is in an interlock state

Hardware Fault
Displayed when there is an I/O failure

Discrepancy
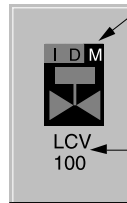Displayed when valve has a discrepancy alarm

Fail To Open
Displayed when valve fails to open

Fail To Close
Displayed when valve fails to close

Operator Interaction

Reset Button
Resets the latched alarm mode

A Button
Selects automatic mode

M Button
Selects manual mode

Open Button
Opens the valve in manual mode

Close Button
Closes the valve in manual mode

EUROTHERM LIMITED   http://www.eurotherm.co.uk

UK SALES OFFICE
Eurotherm Ltd
Faraday Close Durrington Worthing BN13 3PL United Kingdom
Sales and support: Tel. +44 (0)1903 205277 Fax +44 (0)1903 236465

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