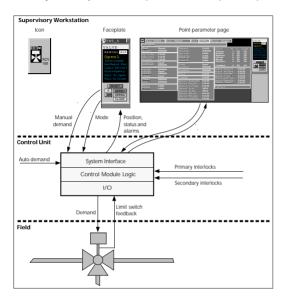
EUROTHERM PROCESS AUTOMATION

VIv3Way: Three way valve, three inputs, maintained or pulsed outputs



The VIv3Way control module is designed for a three way valve with three limit switch inputs. offers a choice of maintained outputs (Open1 Act, Close Act) or pulsed outputs (Open1 Pls, Open2 Pls, Open3 Pls), and provides the following functionality:

- Setting a valve demand
- Standard supervisory workstation interface
- Standard software block
- Status and alarm display
- Operator faceplate
- Engineer point display
- Interlocks

The Viv3Way 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 custombuilt 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.

Standard control module

VIv3Way

library

OUTLINE SPECIFICATION

Limit Switch Input for the first open posistion

Maintained digital (Open/Not open)

Limit Switch Input for the second open position Maintained digital (Open/Not open)

Closed Limit Switch

Maintained digital (Closed/Not closed)

Maintained Demand Outputs

Maintained digital Open 1 demand Open 2 demand Close demand

Pulsed Demand Outputs

Onen 1 output pulse Open 2 output pulse Close output pulse

Operating Modes

Manual/Maintenance Allows manual operation of the valve

Automatic

Faceplate

Mode -

Valve Status

Derived Status

Interlocked

Hardware Fault

Limit Switch Fault

Fail To Open

Displays Manual/Auto/Maint

Displays Open1/Open2/Closed/ToOpen1/

Displayed when valve is in an interlock state

Diplayed when limit switches indicate valve is

both open and closed or open 1 and open 2

Displayed when valve has a discrepancy alarm

ToOpen2/ToClose/Unknown/LSFault

Displayed when there is an I/O failure

Displayed when valve fails to open

Displayed when valve fails to close

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 Unknown

Valve Limit Switch Fault

Valve Position Discrepancy

Valve Failed to move



Notations M (blue background)

Automatic mode selected Manual mode selected Maintananca Interlock active

Value in discrepancy alarm Line 1/Line 2 Textual control module tag or description

Yellow

Green/Red Open 1 Open 2 ToOnen 1 ToOpen2 ToClosed

Unknown LSEquit Grev Not communicating Flachina Flashina Block alarm

Operator Interaction

Reset Button

TW5 E

AT.VE

ALIA TAHRAN

RESET

A OPEN1

OPEN2

CLOSE

pen1

Resets the latched alarm mode

A Rutton

Selects automatic mode M Button

Salacte manual mode

Open1 Button

Moves the valve to position 1 in manual mode

Open2 Button

Moves the valve to position 1 in manual mode

Close Button

Closes the valve in manual mode

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Telephone +44 (0) 1903 205277 Facsimile +44 (0) 1903 233902 Web: http://www.eurotherm.co.uk Standard control module library Vlv3Way HA 083932U 103

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