SVI[®]

Digital Positioner & Controller



New and existing pneumatically actuated valves can be modernized with advanced control technology using Masoneilan's Smart Valve Interface (SVI). In addition to being a smart positioner, the SVI can also perform PID loop control. HART™ communication capability enables use of SVI with existing 4-20 mA wires.

Additional devices, such as a hand-held communicator or laptop computer, are NOT required to set up and configure the SVI. Local configuration, calibration, and operation can be manually achieved using the push buttons and LCD readout, which are explosionproof and fully integrated within the SVI assembly. Although not required, remote communication and control can also be accomplished using HART hand-helds or with personal computers using Masoneilan's ValVue®2 software.

pressure sensors integrated within all SVI's offer valve diagnostic functions that others provide only in their advanced diagnostic models.

- Auto-Calibrate & Auto-Tune
- Precision Valve Positioning
- Software CAMs for Flow Characterization
- Easy Mounting & Set-up on Any Valve
- Advanced Diagnostics Standard
- Remote Mount Option
- Valve Position Transmitter
- Valve Friction Test
- Valve Travel Odometer
- Stroking Speed
- Step Response
- Valve Signature History Stored at the Valve
- Integrated Process Controller
- ValVue 2 Companion Software
- AMS SNAP-ON[™] Application
- Very Low Compliance Voltage (9.5 VDC)







Technical Specifications

Performance

Accuracy 0.5% of span (0.25% typical)

Hysteresis plus deadband0.2% of spanRepeatability0.2% of spanSensitivity0.2% of span

Operating ambient temperature range -40° to +80° C (-40° to +176° F)

Operating temperature of remote mount module . -50° to +119° C (-58° to +247° F)

Input Power and Signal

no external power required

Minimum terminal voltage 9.5 volts

Minimum signal 3.4 mA

Pneumatics

Supply pressure effect 0.05% of span

Air deilvery 6.8 Nm³/h at 1.4 bar (4 scfm at 20 psi)

Hazardous Areas Approvals*

FM and CSA Approvals

Dust-ignitionproof Class II, III; Div 1; Groups E, F, G

Intrinsically Safe Class I, II, III; Div 1; Groups A, B, C, D, E, F, G

CENELEC Approvals

Electro-magnetic Compatibility EN 50018-2 and EN 50082-2

Enclosure Rating NEMA 4X / IP 65 per EN 60529

CE mark Yes

*Note: The SVI unit is designed to meet electrical safety specifications listed. Consult factory for current status of agency approvals.

For more information, call your local Masoneilan Representative or:

Dresser - Masoneilan 85 Bodwell Street Avon, MA 02322-1190 Phone: 508-586-4600 Fax 508-427-8971 Dresser Produits Industriels S.A.S. Division Masoneilan 4, place de Saverne 92971 Paris La Defense Cedex, France Tel: 011-33-1-4904-9000

© 2002 Dresser, Inc. All rights reserved.