Putting You In Control



Key Features

- Extreme accuracy and reliability
- Universal design (linear or rotary applications)
- Field proven, non-contact position sensing
- Selectable position feedback (non-contact sensor or remote-mount position feedback)
- Position transmitter 4-20mA output
- Two configurable digital contacts
- Explosion proof external LCD & buttons
- Valve position autotune (self calibration) with user selectable valve response
- Field upgradable features and firmware
- Split-range capable with 5mA of span
- High-speed response for surge-control applications

Digital Communication Interface Solutions

- ValVue® communication software:
 - Point-to-point with serial, USB or Bluetooth modem
 - MTL and Pepperl & Fuchs multiplexor
- Control system integration
 - Emerson[®]
 - AMSTM / AMSTM ValVue SNAP-ONTM
 - FDT-DTM
 - FDT-DTM compatible host
 - Honeywell®
 - FDM / ValVue for Experion™ / Asset Manager PKS™
 - Yokogawa®
 - PRM® / ValVue PRM Plug-In
- HART® configuration tools:
 - Compatible with any certified configurator using DDL technology such as Handheld 375

SVI®II APSpecifications

Safety Compliance:

■ SIL2 Per IEC61508 section 2-3

Diagnostics:

- 5 Pressure Sensors
- Total Travel & Number of Cycles
- Valve Operations (time open/time close/time near close)
- Offline Control Valve Signatures
- Online Friction with ValVue® OVD
- Field Upgradable Diagnostic Levels

Housing Material:

- Case/Cover: Aluminum (std), 316L (optional)
- Paint: Grey Polyurethane

Input Power and Signal:

- Power Supply (taken from 4-20mA)
- Required Terminal Voltage: 9Vdc at 20mA
- Minimum Current Signal: 3.2mA

Output Signals:

- Position Transmitter: 4-20mA 2 Wire Loop Powered with 10-24Vdc Compliance Voltage
- Two Configurable Digital Contacts: 30Vdc, 1A

Input Signals:

- Valve Setpoint: 4-20mA, 450 Ohms Input Resistance
- DI (discrete input): Un-powered Contact Closure
- Remote Position Sensor: 10k Ohms

Communication:

■ HART® Revision 5 Protocol

Ambient Temperature Limits:

■ -58 to 185° F (-50 to 85° C)

Ambient Humidity Limits:

■ 10 to 95% RH Non-condensing

EMC Conformity Standards:

- EN 61000-4-2, 3, 5, 6, 8
- IEC 8014-2, -3, -4
- CE MARK

Actuator Travel Range:

- Linear Motion: 0.25" to 4" (standard mounting)> 4" (extended mounting)
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- Rotary Motion: 18 to 140 degTravel Sensor Resolution: 0.0015%

Pneumatics:

Air or sweet natural gas - regulated and filtered

Air Supply Pressure:

- Single-Acting: 20 to 100 psi max (1.4 to 6.9 bar)
- Double-Acting: 20 to 150 psi max (1.4 to 10.3 bar)

Air Delivery and Air Consumption

Output Delivery

	Air Supply	Single-Acting	Double-Acting
60 psi (4.2 bar) supply 16.6 scfm (470 l/m) 12.8 scfm (360 l/m) 90 psi (6.3 bar) supply 23.3 scfm (660 l/m) 18.3 scfm (520 l/m)	60 psi (4.2 bar) supply 90 psi (6.3 bar) supply	16.6 scfm (470 l/m) 23.3 scfm (660 l/m)	7.2 scfm (200 l/m) 12.8 scfm (360 l/m) 18.3 scfm (520 l/m) 23.8 scfm (675 l/m)

Air Consumption

Air Supply	Single-Acting	Double-Acting
30 psi (2.1 bar) supply	0.212 scfm (6 l/m)	0.424 scfm (12 l/m)
60 psi (4.2 bar) supply	0.282 scfm (8 l/m)	0.565 scfm (16 l/m)
90 psi (6.3 bar) supply	0.424 scfm (12 l/m)	0.847 scfm (24 l/m)
120 psi (8.4 bar) supply	0.529 scfm (15 l/m)	1.06 scfm (30 l/m)

Materials:

 I/P Motor and Relay are Constructed of Composite Polymers and Stainless Steel (300 and 400 series)

Control Valve Mounting System:

- Material:
 - -300 Series SST Standard
- Valve Type:
 - Linear or Rotary Motion Control Valve
 - Single or Double Acting Actuator
- Optional Remote-Mount Position Sensor Kit:
 - Remote Position Sensor (RPS) Assembly
 - Cabling For Up To 30 Meters (100')
 - 2" Pipe Mount Bracket

Hazardous Area Certifications:

- FM, CSA, ATEX, JIS, INMETRO, KOSHA, GOST, IEC, NEPSI and Others Available
- Explosion Proof, Intrinsically Safe, Flame Proof
- NEMA 4X / IP66

Performance per ISA S75.13 - 1996:

Accuracy		+/- 0.5% F	ull Span
	(typical +/- 0.10%	or better Fu	ull Span)
Conformity		+/- 0.5% F	ull Span
Hysteresis + Dead	dBand	+/- 0.3% F	ull Span
Repeatability		+/- 0.3% F	ull Span
Power-Up With P	osition Control	,	<150ms
Power Interruption	n Without Causing	Reset	<100ms



