

# FVP 110

Masoneilan\* Products FOUNDATION™ Fieldbus Valve Positioner and Controller, Interoperable and Integrated, Single & Double Acting



GE's Masoneilan\* FVP\* positioner, certified and approved by Fieldbus Foundation™, can be used in conjunction with all certified FOUNDATION™ Fieldbus. Within the FOUNDATION™ Fieldbus host system, certified device descriptors (DD) enable seamless integration and interoperability of the Masoneilan FVP positioner. The Masoneilan FVP positioner has unequalled “on-board” data gathering capabilities, alarms, and diagnostics as well as standard positioner functionality. The Masoneilan FVP positioner has advanced diagnostics integration and automated valve data analysis available with leading asset management software. Further enhanced capabilities of graphical data manipulation and valve signature acquisition are accomplished with GE's Masoneilan ValVue\* FOUNDATION™ Fieldbus software program, which may be used either as a standalone program or integrated with major FOUNDATION™ Fieldbus host systems.

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## Precise Digital Positioning & Diagnostics

GE's Masoneilan FVP valve positioner is an intelligent digital valve positioner and PID process controller that communicates using the protocol. GE's Masoneilan FVP valve positioner offers advanced control technology for pneumatically actuated valves; provides higher precision, greater flexibility and ease of use. The major advantages of GE's Masoneilan FVP valve positioner are:

- High Performance: Can respond to Step Changes of (0.05%)
- Low Power Consumption: (16mA) – Ideal for Intrinsically Safe applications
- Fast Commissioning: User friendly ValVue FF Set-up Wizard and Methods
- Low Life Cycle Cost: Low Air Consumption (< 10 scfh @ 20 psi)
- Self-initiated Valve Alarms
- Diagnostics and software integration possible with virtually all control systems
- On Board Valve Signature & Diagnostics Storage: Easily retrieved diagnostic information
- One Model Fits All: The same unit can be mounted on any manufacturer's rotary or linear actuator
- Manual Pneumatic Override Switch: Bypass electronics for valve installation, commissioning, and diagnosing
- Standard or Advanced Diagnostics: Scalable valve diagnostics to match process application
- Online Firmware Flash: Update Firmware without Process Interruption
- Built in Positioning Autotune: Patented for optimal response regardless of actuator size, can be launched from the control system or any FF configurator
- Frictionless Position Sensor: High resolution and maintenance free
- Modular Design: Makes for a compact and easily maintained and installed positioner
- Single- and Double-Acting models available



# GE's Masoneilan\* FVP\* Valve Positioner Overview

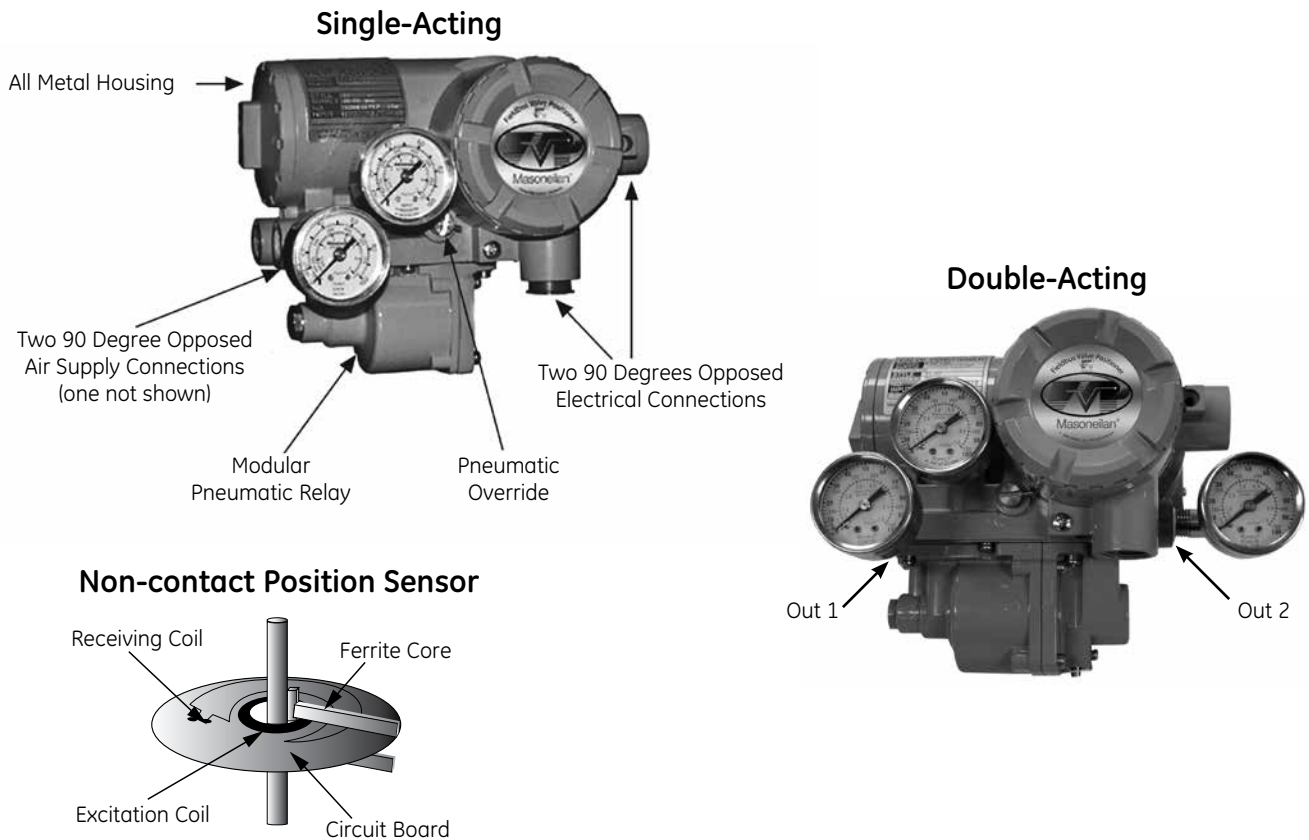


Figure 1: GE's Masoneilan\* FVP\* Valve Positioner Components

## Multi-Function Blocks = Control Flexibility

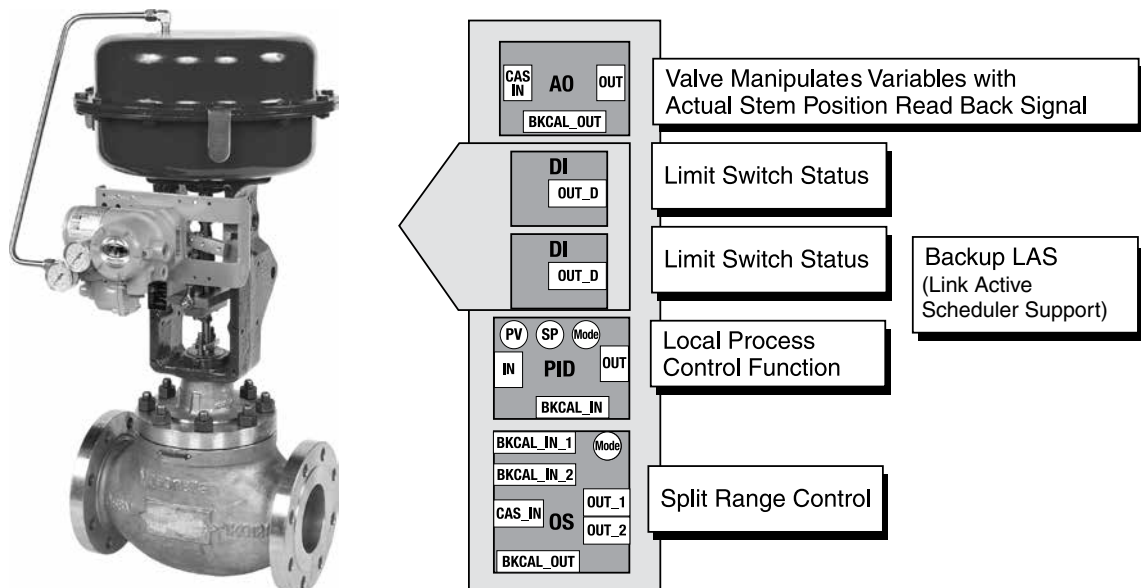


Figure 2: GE's Masoneilan\* FVP\* Valve Positioner Functional Overview

# Physical and Operational Specifications

Item		Specification
Communication Protocol		FOUNDATION™ Fieldbus
Voltage/Capacitance		9 - 32 Vdc / 1.76 nF
Housing Materials		Case: Aluminum die-cast / Paint: Polyurethane resin-baked finish
Weight		Single-Acting = 5.1 lbs (2.3 Kg)
		Double-Acting = 6.2 lbs (2.8 Kg)
Supply Current (Standard)		17mA max (16mA standard)
Supply Current (on-line download version)		17mA (approximately 41mA when flashing firmware)
Action		Single-Acting / Double-Acting
Connections	Pneumatic	1/4 NPT Female
	Electrical	1/2 NPT Female (other options available)
	Gauges	1/8 NPT
External Pneumatic Auto/Manual Switch		Included
Position Sensor Span		Rotary Travel 20 - 90° Linear Travel 0.4 - 6 inches (10 - 152mm) <sup>1)</sup>
Operating Temperature Limits		Single-Acting = -40°F to 185°F (-40°C to 85°C) Double-Acting = -40°F to 140°F (-40°C to 60°C) Option available for higher temperature.
Enclosure Rating		IP65, NEMA4X
Linearity		+/-0.5%
Hysteresis		0.3%
Dead Band		0.1%
Supply Pressure		Single-Acting = 20 - 100 PSI (1.4 - 6.9 bar) Double-Acting = 30 - 105 PSI (2 - 7 bar)
Air Consumption		Single-Acting = 0.32 m <sup>3</sup> /h at 20 PSI (1.4 bar) Double-Acting = 0.508 SCFM (0.915 Nm <sup>3</sup> /h)
Air Delivery		Single-Acting = 6.6 m <sup>3</sup> /h at 20 PSI (1.4 bar) Double-Acting = 11.7 SCFM (18.85 Nm <sup>3</sup> /h)
Temperature Effect		+/- 0.04% of F.S./°F (+/-0.08% of F.S./°C)
Lightning Protection (Optional)		Max current 6000 A (rise 1 micro second, fall 40 micro seconds) Repeating current 1000 A (rise 1 micro second, fall 40 micro seconds) 100 times
Ambient Humidity Limits		5 to 95% RH at 104°F (40°C)
Vibration Limit		4 mm at 5 to 15 Hz / 2G at 15 to 2000 Hz
Shock Limit		10G
Flow Characterization		Linear, Equal Percentage (50:1 and 30:1), Quick Opening, Camflex Eq% User Defined, Tight Shut-off and Full Open
Valve Position Auto Tune		GE's Masoneilan FVP positioner performs an automatic determination of the optimal valve position control parameters (during setup).
On-line Firmware Download		Optional
Backup Link Active Scheduler		Standard

1. Above 6 inches can be achieved with custom mounting. Consult factory for mounting details.

**Table 1: GE's Masoneilan\* FVP\* Valve Positioner Specifications**

# Physical and Operational Specifications

Item	Specification
Function Blocks Included	PID, AO, DI X 2: and OS (splitter block)
Positioner Alarms	Block Alarm, Process Alarm, and Event Update Each alarm provides detailed information
Fail Safe Action	Internal diagnostics and configurable deviation alarm can set output pressure to zero
Diagnostics	Standard or Advanced (see pages 8 & 9)
ITK (consult <a href="http://www.fieldbus.org">www.fieldbus.org</a> for latest updates)	4.61

**Table 1: GE's Masoneilan\* FVP\* Valve Positioner Specifications (continued)**

Item	Specification
ATEX	<p>Flame Proof</p> <p>Per EN 50014 (1997) and EN 50018 (2000) Group: II Category: 2G EEx d IIC T6, ambient Temp.: -40 to 167°F (-40 to 75°C) EEx d IIC T5, ambient Temp.: -40 to 176°F (-40 to 80°C)</p> <p>KF2</p>
ATEX	<p>Intrinsically Safe</p> <p>Per EN 50014 (1997), EN 50020 (2002), EN 50284 (1999), EN60529 (1991), and EN50281-1-1 (1998) Group: II Category : 1GD, 1G or 1D Maximum Surface Temp for dust proof: 212°F (100°C) Ambient Temp for 1G: -40 to 140°F (-40 to 60°C) Ambient Temp for 1D: -40 to 176°F (-40 to 80°C) Ambient Temp for 1GD: -40 to 140°F (-40 to 60°C)</p> <p>KS25</p>
	<p>Gas Proof/Dust Proof</p> <p>EEx ia IIC T4 EEx ia IIB T4</p>
ATEX	<p>Type n</p> <p>Group: II, Category: 3G</p> <p>Consult Factory</p>
Factory Mutual Approvals	<p>Explosion Proof</p> <p>Class I, Division 1, Groups B, C and D</p> <p>FF1</p>
	<p>Intrinsically Safe</p> <p>Class I, II, III Division 1, Groups A, B, C D, E, F and G</p> <p>FSI5</p>
	<p>Non-incendive</p> <p>Class 1, Division 2, Groups A, B, C and D Suitable for Class II, Division 2, Groups F and G and Class III with Non-incendive Field Wiring applications Hazardous (Classified)</p> <p>FN15</p>
CSA Approvals	<p>Explosion Proof</p> <p>Class I, Division 1, Groups B, C and D</p> <p>CF1</p>
	<p>Intrinsically Safe</p> <p>Ex ia IIB/IIC T4; Tamb = -58 - 140°F (-50 to 60°C); CSA Enel Type 4X; IP66</p> <p>CS15</p>
JIS Approvals	<p>Explosion Proof</p> <p>Class I, Division 1, Groups B, C and D</p> <p>JF3</p>
	<p>Intrinsically Safe</p> <p>JS3</p>
CE Conformity	<p>Yes per EN61326</p>

Note: Intrinsically safe approvals per FISCO.

**Table 2: Agency Approvals**

# Model Numbering System

Table 3 (below) describes the Masoneilan FVP valve positioner model numbering system and features. For example, GE's Masoneilan FVP valve positioner model number *FVP110-F1A1/LC1/BP/FF1* indicates: FOUNDATION Fieldbus input signal, is intended for a Single-Acting Actuator, has a PID Function Block, Pressure Sensor and Diagnostics and meets FM Explosion Proof Agency Certification.

Model	Suffix Codes		Description
FVP110			
Input Signal	-F		FOUNDATION Fieldbus
Applicable Actuator	1		Single-Acting Actuator
	2		Double-Acting Actuator. See price sheet for an example.
-	A		Always A
Connection	3		Electrical Connection: 1/2NPT, Pneumatic Connection: 1/4NPT
	6		Electrical Connection: M20, Pneumatic Connection: Rc 1/4"
		N	
Option Codes	/		Optional Specifications (see table below for codes and descriptions)

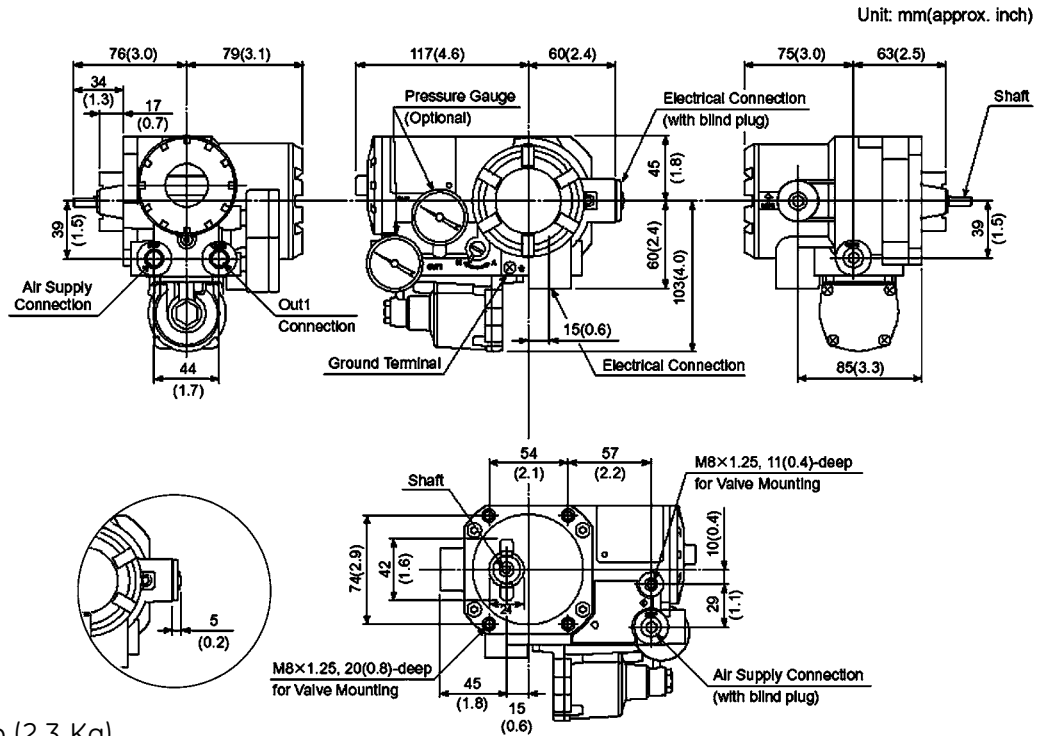
**Note:** 0-100 psi (0-7 bar) pressure gauges for OUTPUT and SUPPLY are provided as standard.

## Optional Specifications

Item	Description	Code
Lightning protection	Power supply 10.5 to 32 V DC Allowable current Max.6000A(1*40µS), repeating 1000A(1*40µS) 100 times	A
Coating Change	Epoxy resin coating	X1
PID Function Block, Link master function	Process control function block with backup link master function	LC1
Output pressure detecting function, Signature function	Advanced Diagnostics	BP
High Temperature (for Double-Acting Only)	+14°F to +180°F (-10°C to +85°C) ambient temperature	HT
FF Firmware Download Function (Not available for Intrinsic Safety)	Online Firmware Upgrade	EE
FM Explosion proof	See Table 2	FF1
FM Intrinsic Safety	See Table 2	FS15
FM Non incendive	See Table 2	FN15
CSA Explosion proof	See Table 2	CF1
CSA Intrinsic Safety	See Table 2	CS15
ATEX Type N Consult Factory	See Table 2	KN25
ATEX (KEMA) Flame Proof Approval	See Table 2	KF2
ATEX (KEMA) Intrinsic Safety Approval	See Table 2	KS25

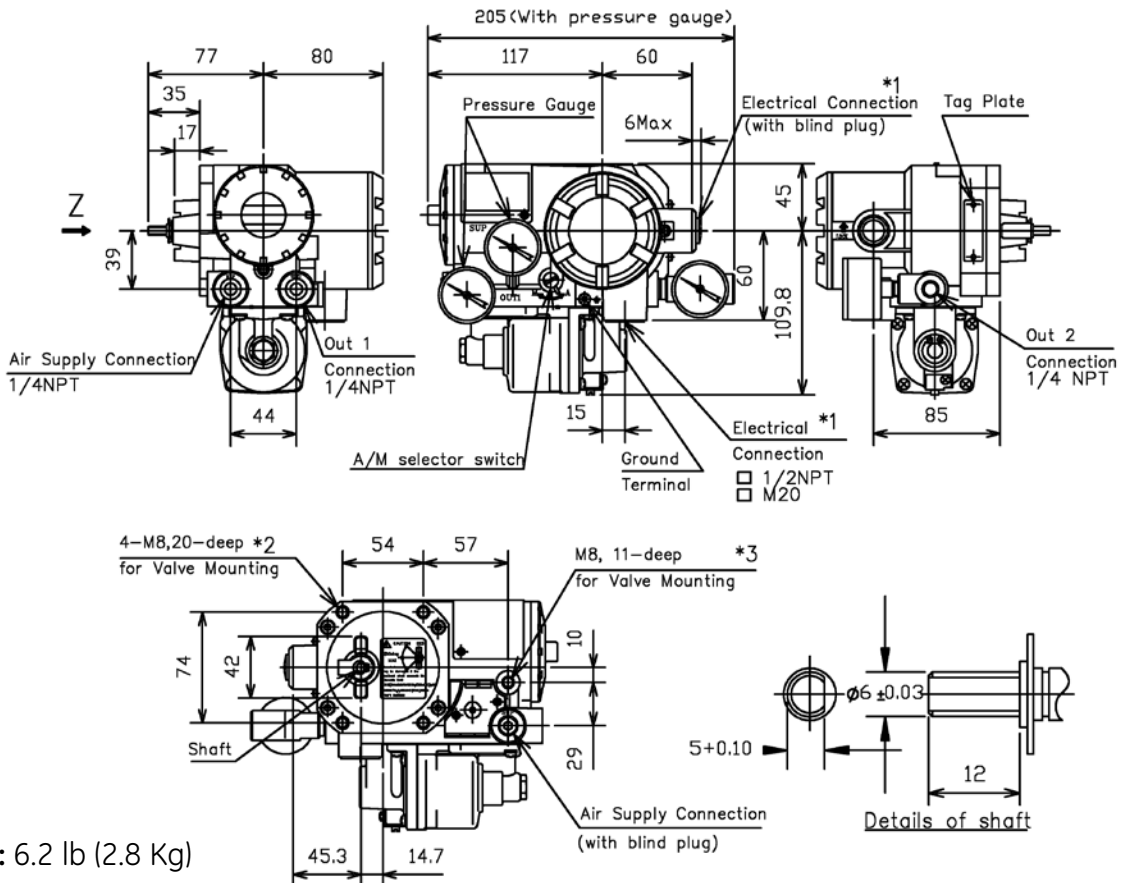
**Table 3: GE's Masoneilan\* FVP\* Valve Positioner Model Nomenclature**

# Dimensions and Weights



**Weight: 5.1 lb (2.3 Kg)**

Figure 3: GE's Masoneilan\* FVP\* Valve Positioner Dimensions (Single-Acting)



**Weight: 6.2 lb (2.8 Kg)**

Figure 3: GE's Masoneilan\* FVP\* Valve Positioner Dimensions (Double-Acting)

# Alarms

Control Valve Related Runtime Alarms	Diagnostics Option	
	Standard	Advanced / BP
Temperature Sensor Failure	X	X
Pressure Sensor Failure		X
Position Sensor Failure	X	X
A/D Converter Failure (Position Sensor)	X	X
EEPROM Failure	X	X
Amplifier Failure	X	X
Failsafe	X	X
Temperature Measurement Out of Range	X	X
Pressure Measurement Out of Range		X
Position Sensor Out of Range	X	X
Adjustable Hi-Lo Servo Drift Warning	X	X
Cycle Count Limit Exceeded	X	X
Travel Limit Exceeded	X	X
Total Time Open Limit Exceeded	X	X
Total Time Closed Limit Exceeded	X	X
Total Time Near Closed Limit Exceeded	X	X
Deviation Warning	X	X
Deviation Error	X	X
Calibration Related Feedback / Alarms		
Auto Tune / Travel Calibration Error	X	X
Exhaust Air Press Warning		X
Small Air Supply Warning		X
Large Air Supply Warning		X
Offset Drift Warning	X	X
Large Response Speed Warning	X	X
Large Hysteresis Warning	X	X
Large Slip Width Warning	X	X
Small Angle Span Warning	X	X
Large Angle Span Warning	X	X
50% Angle Warning	X	X
Small Angle Span Error	X	X
Large Angle Span Error	X	X
50% Angle Error	X	X
Linear Adjustment Error	X	X
Offset Measurement Failed	X	X
Gain Measurement Failed	X	X
Response Speed Measurement Failed	X	X
Hysteresis Measurement Failed	X	X

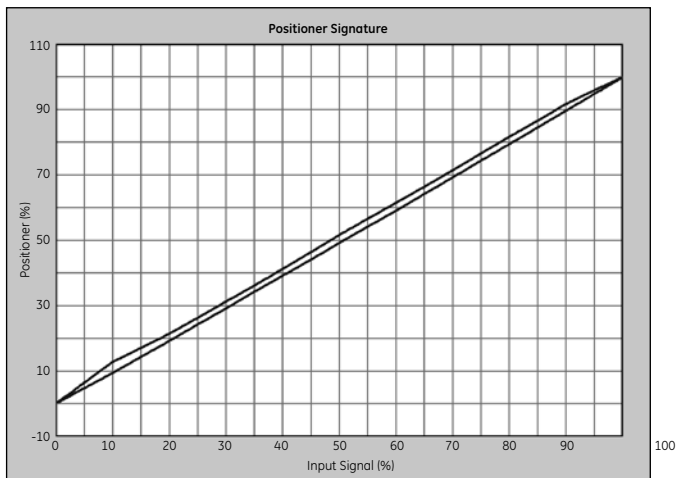


# GE's Masoneilan FVP\* Valve Positioner Diagnostics

The Masoneilan FVP valve positioner has two levels of diagnostics: **Standard** or **Advanced**. The **standard diagnostics version** provides FOUNDATION Fieldbus alarms (see page 8).

The **advanced diagnostics version** provides more in depth calculations (friction, spring range, etc) using a built in pressure sensor (see examples below). This version also provides a means of measuring online friction as well as the dynamic performance of the valve without disturbing the process (consult GE for details).

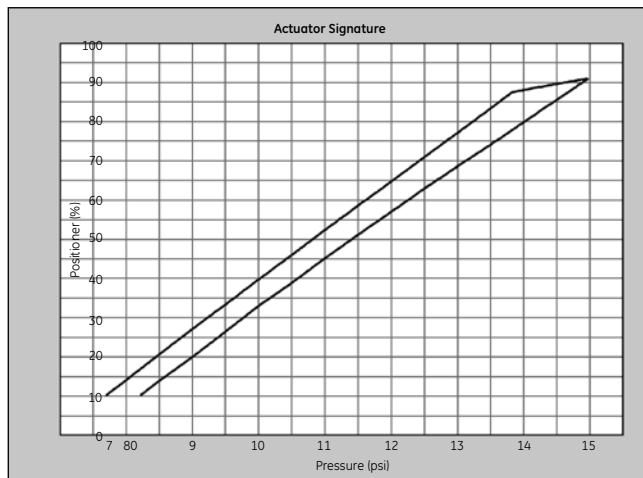
## Positioner Signature (Stored on PC) Travel vs Setpoint



### Analysis

- Hysteresis
- Accuracy
- Overall "Picture"
- Deadband
- Linearity

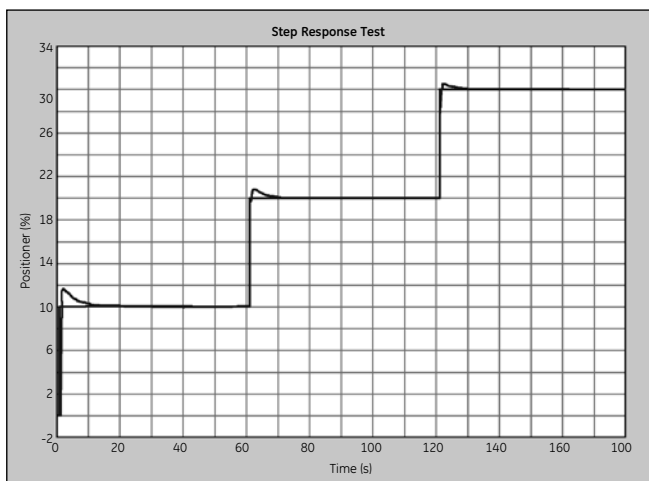
## Standard Actuator Signature\* (Stored in GE's Masoneilan\* FVP\* Positioner or PC) Travel vs Actuator Pressure



### Analysis

- Friction
- Stick-Slip Width
- Spring Range
- Actuator Pressure

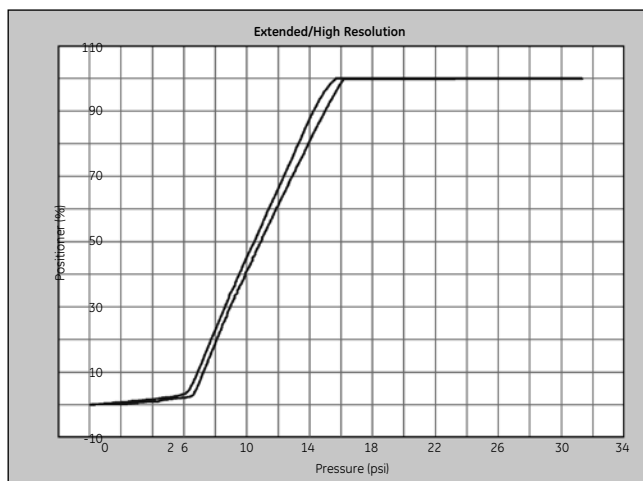
## Step Signature (Stored on PC) Travel & Setpoint vs Time



### Analysis

- T86
- Resolution
- Overshoot
- Dead Time

## Extended Actuator Signature\* (Stored on PC) Travel vs Actuator Pressure



### Analysis




- Friction
- Stick-Slip Width
- Seating Analysis
- Spring Range
- Actuator Pressure

\*Available with Single-Acting version only.

Figure 4: GE's Masoneilan\* FVP\* Valve Positioner Diagnostics & Graphs

# GE's Masoneilan\* FVP\* Valve Positioner Integration With Host Systems

Table 4 below provides a summary of the possible Masoneilan FVP valve positioner and Host System integration configurations.

	<b>Certified &amp; Approved FOUNDATION Fieldbus Host System With Advanced Diagnostics Integration <sup>(3)</sup></b>			<b>All Certified &amp; Approved FOUNDATION Fieldbus Host Systems</b>
	<b>Honeywell</b>	<b>Emerson</b>	<b>Yokogawa</b>	
	Experion™ PKS	Emerson DeltaV™	Yokogawa CS 1000 CS 3000 STARDOM™	
<b>Configuration – Calibration – Diagnostics</b>				
Diagnostics Integration	Yes <sup>(1)</sup>	Yes <sup>(2)</sup> AMS*	Yes <sup>(4)</sup> PRM	Consult GE
Configuration / Calibration Using Menus, Methods & Setup Wizards	Yes <sup>(4)</sup>	Yes <sup>(4)</sup>	Yes <sup>(4)</sup>	Yes
Configuration / Calibration via Host	Yes	Yes	Yes	Yes
Asset Management Support	Yes	Yes	Yes	Yes
Configuration / Calibration via Host	Yes	Yes	Yes	Yes
Configuration / Calibration / Diagnostics via GE's ValVue* FF Standalone Software connected to H1 Segment	Yes	Yes	Yes	Yes
				
Configuration / Calibration / Diagnostics via Integrated Package	Yes <sup>(1)</sup>	Yes <sup>(1)</sup>	Yes	Consult Factory
				
Name of Add-On Package	Pending	AMS ValVue FF SNAP-ON™	GE's Masoneilan* ValVue* FF software PRM Plug-In	N/A

1. Asset manager fault models for GE's Masoneilan FVP positioner.





2. Emerson Delta V AMS SNAP-ON for ValVue FF software.

3. At Time of Print. Contact GE for other systems.

4. Device Type 1, Rev 3 or Type 7 only.

**Table 4: GE's Masoneilan\* FVP\* Valve Positioner - Host Integration**

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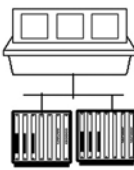


Diagnostic Item	Diagnostics Version		Accessibility Read and Write (if applicable)			Device Initiated
	Standard	Advanced /BP Option	Host System (TB Block and menus-and-methods)	FOUNDATION Fieldbus Handheld (TB Block and menus-and-methods)	GE's Masoneilan* ValVue* FF Software	
	Standard	Advanced /BP Option				Minimal or No Highway Loading <sup>(2)</sup>
<b>Diagnostics Tests</b>						
Self check including auto-analysis of spring range, low and high air supply, valve hysteresis, time constant, and stick-slip	✓*	✓	✓	✓	✓	✓
Standard Actuator Signature test with automatic friction, and spring range analysis <sup>(4)</sup>		✓	✓	✓	✓	✓
On board non-volatile memory storage for two actuator signatures with analysis <sup>(4)</sup>		✓	✓	✓	✓	✓
Extended actuator test with automatic friction, spring, and seating analysis <sup>(4)</sup>		✓			✓	✓
High resolution extended actuator test with automatic friction, spring, and seating analysis <sup>(4)</sup>		✓			✓	N/A
Positioner performance signature (positioner signature)		✓			✓	✓
Valve/Actuator/Positioner performance signature (step test)		✓			✓	✓
Online performance analysis including friction	✓ <sup>(3)</sup>	✓			Consult Factory	
<b>SignatureHandling</b>						
Comparative signature overlay and analysis of 8 tests	N/A	N/A	✓ <sup>(1)</sup>		✓	N/A
Trending window of diagnostic test progress can be saved	N/A	N/A	✓ <sup>(1)</sup>		✓	N/A
Batch operation for diagnostic tests	N/A	N/A	✓ <sup>(1)</sup>		✓	N/A
HTML report	N/A	N/A	✓ <sup>(1)</sup>		✓	N/A

1. This feature is host system dependent. See table "Integration with control systems" for more details, page 10.
2. Diagnostic tests or calibration routines, which are "device initiated" and running within the micro-processor of the Masoneilan VFP valve positioner. Therefore, minimal or no communication bandwidth is affected, which allows for successful completion of these tasks without sacrificing the H1 segment throughput.
3. Friction related information not available.
4. Not available with Double-Acting.

\* Spring Range, Air Supply Not Available

**Table 5: Diagnostics Summary**

# Diagnostics Summary

Diagnostic Item	Diagnostics Version		Accessibility Read and Write (if applicable)			Device Initiated
	Standard	Advanced /BP Option	Host System (TB Block and menus-and-methods)	FOUNDATION Fieldbus Handheld (TB Block and menus-and-methods)	GE's Masoneilan* ValVue* FF Software	
						Minimal or No Highway Loading <sup>(2)</sup>
<b>Valve Historian</b>						
32 bit cycle counter with adjustable alarm threshold	✓	✓	✓	✓	✓	✓
32 bit Travel accumulator with adjustable alarm threshold	✓	✓	✓	✓	✓	✓
Accumulating timer of valve position "closed" with adjustable alarm threshold	✓	✓	✓	✓	✓	✓
Accumulating timer of valve position "near closed" with adjustable alarm threshold	✓	✓	✓	✓	✓	✓
Accumulating timer of valve position "open" with adjustable alarm threshold	✓	✓	✓	✓	✓	✓
<b>Masoneilan* FVP* Valve Positioner Self-Initiated Diagnostics</b>						
Impending positioner or control valve problem (servo alarm)	✓	✓	✓	✓	✓	✓
Control valve position deviation from commanded setpoint	✓	✓	✓	✓	✓	✓
Sensor failures (position, temperature, A/D converter, etc)	✓	✓	✓	✓	✓	✓
CPU tasks, memory integrity, communication integrity	✓	✓	✓	✓	✓	✓
<b>Setup and Calibration Diagnostics</b>						
Auto-Calibration with 9 pass-fail criteria	✓	✓	✓	✓	✓	✓
Positioning AutoTune with 11 pass-fail criteria	✓	✓	✓	✓	✓	✓

1. This feature is host system dependent. See table "Integration with control systems" for more details, page 10.
2. Diagnostic tests or calibration routines, which are "device initiated" and running within the micro-processor of the Masoneilan FVP positioner. Therefore, minimal or no communication bandwidth is affected, which allows for successful completion of these tasks without sacrificing the H1 segment throughput.
3. Friction related information not available.

**Table 5: Diagnostics Summary (cont.)**

# FOUNDATION™ Fieldbus Specification Data Summary

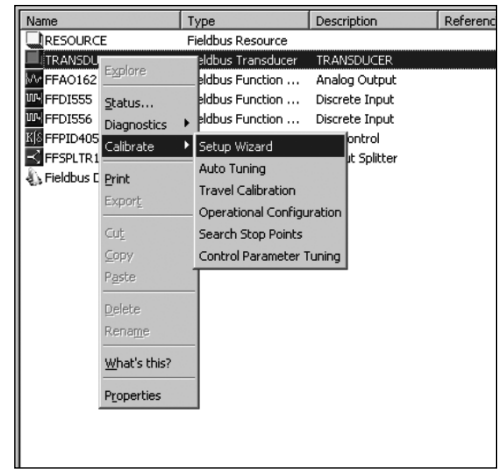
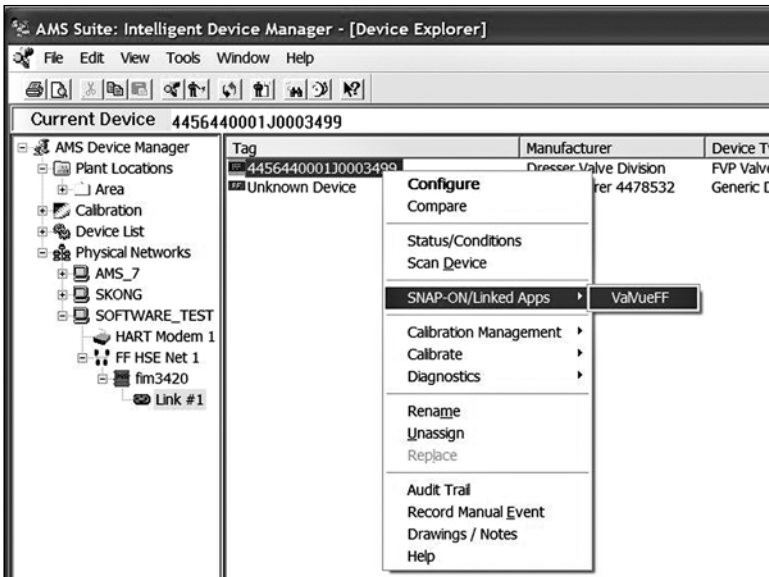
1. General		
	Is the device registered at the Fieldbus Foundation (Y/N)	Yes
	Manufacturer Name	GE
	Manufacturer ID	445644
	Model	FVP110
	Device Type/Rev	1/4
		7/2
	ITK (See www.fieldbus.org for latest updates)	4.61
2. DD and CFF		
	Device Description File Name (.ffo and .sym)	Type 1: 0401.FFO, 0401.SYM
		Type 7: 0202.FFO, 0202.SYM
	Capabilities File Name	Type 1: 040101.CFF
		Type 7: 040101.CFF
	List of Methods	Setup Wizard
		Auto Tuning
		Travel Calibration
		Operational Configuration
		Search Stop Points
		Control Parameter Tuning
		Self Check Execution
		Release Fail Safe
		Signature Execution
		Upload Signature Data
		Upload Signature Header Data
		Instant Troubleshooting
3. Physical		
3.1	Polarity Sensitive (Y/N)	Yes
3.2	Quiescent Current Draw (mA)	16
3.3	Startup Current Draw (ma)	17
3.4	Capacitance	176nF
3.5	4-wire Device	No
4. Communication		
4.1	Stack Manufacturer	Yokogawa/Softing
4.2	Does the Device support Backup LAS functionality?	Yes
	Total Number of VCRs	29
4.3	Number of Fixed VCRs for user configuration (Publisher, Subscriber, Alarming, and Trending)	QUB/Server-3
		QUU/Source(Alert)-1
		QUU/Source(Trend)-1
		BNU/Publisher - 11
		BNU/Subscriber - 12

# FOUNDATION™ Fieldbus Specification Data Summary (cont'd)

5. User Layer General		
5.1	Function Block Application Manufacturer	Yokogawa
5.2	Function Blocks (list all type, but not including transducer)	AO, PID, DI, OS
5.3	Device Support Block Instantiation (Y/N)	No
5.4	Number of Link Objects	25
5.5	Device Support firmware upgrade over fieldbus segment? (Y/N)	Yes (optional)
6. Resource Block		
6.1	Block Class (Standard, Enhanced, Custom)	Standard
6.2	Special Features	No
7. Transducer Blocks		
7.1	Block Class (Standard, Enhanced, Custom)	Custom
7.2	Does the device support methods in the Resource and Transducer Blocks?	Yes
7.3	Special Features besides Methods (multiple views, etc.)	Yes
7.4	Transducer Block Special Features (supports Methods, multiple VIEWS, etc.)	Multiple VIEWS
8. Function Blocks		
8.1	Does the Device support Custom Function Blocks?	No
8.2	Block Type	DI1, DI2, OS, PID, AO
8.3	Number Available	5 (RB and TB not included)
8.4	Execution Time (ms)	AO: 95 ms, PID: 120 ms, OS: 95 ms, DI1 & DI2: 40 ms
8.5	Block Class (Standard, Enhanced, Custom)	Standard
8.6	Is the AO block of the device able to operate in Cascade mode?	Yes
9. Channels X_D_SCALE and CHANNEL value		Listed by Channel, Unit Code, Enumerated Description, and Function Block Type
9.1	Channel 0	PID Controlled Value Input
9.2	Channel 1	Analog
		Input/Output
		Set point and readback signals
9.3	Channel 2	Discrete output High limit switch status
9.4	Channel 3	Discrete output Low limit switch status

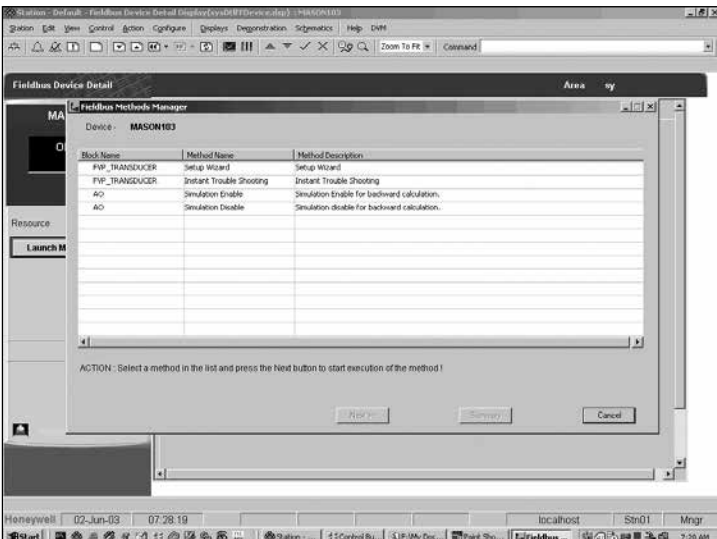
# Ease of Setup

GE's Masonellan FVP valve positioner is very easy to setup, configure and commission from any FOUNDATION™ fieldbus host, because the (DDs) that reside in the host system contain “menu and methods” to guide the user through the Masonellan FVP valve positioner setup. Below are a few examples of the Setup Wizard executed from some commonly used host systems and GE's Masonellan FVP valve positioner.

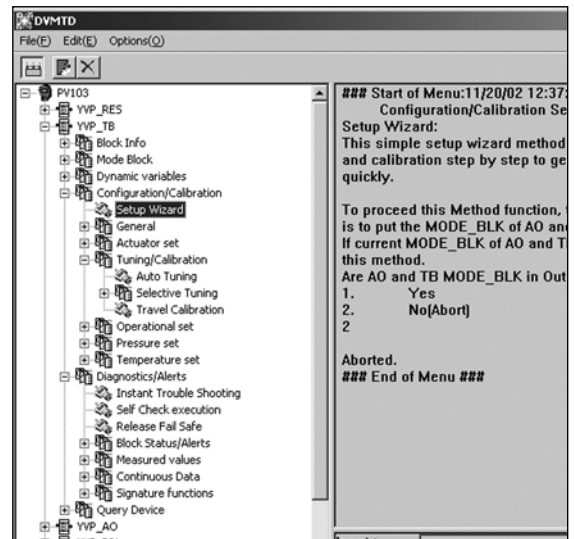


Launching the Setup Wizard by Right-clicking on the TB Block from the DeltaV Explorer

Emerson Process Management integration - Valvue\* FF Software Snap-On for AMS 7.0, DeltaV 7.2 or later edition



Honeywell ExperionPKS – How to Launch the Setup Wizard from the “Fieldbus Methods Manager”



Yokogawa Centum system – How to Launch the Setup Wizard from the “Method Invoker”

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