Moniteur

Moniteur's Series 50 SIPART Electropneumatic "Smart" Positioner is nothing less than the most advanced and accurate positioner in the world. Its advanced technology brings these unique benefits to the process industries:

True Zero Bleed Technology - Piezoelectric air switching technology vastly reduces plant air consumption while providing more accurate control.

Auto Commissioning of the Valve/Actuator - At the touch of a button, the SIPART's microprocessor cycles the control valve and adjusts itself automatically, providing high quality control even under unfavorable operating conditions.

On Board Keypad - All functions are controlled with just three keys, including setting the valve characteristic, adjusting the stroke, accessing valve diagnostics and many more.

Digital Readout of Valve Position

Local Operation including Auto-Manual Operation

On-Board Valve Diagnostics

Same Positioner for linear or rotary actuators

Intrinsically Safe and Explosion-Proof models available

HART Protocol and **PROFIBUS** modules available

Principle of Operation

The SERIES 50 SIPART electro-pneumatic positioner works in a completely different way than conventional I/P positioners. Comparison of the setpoint and the actual value takes place electronically with a microcontroller. If the microcontroller detects a deviation, it uses a 5-way switch procedure to control internal piezoelectric valves, which in turn regulate the flow of air into the actuating chambers. When connected to a loop powered 2-wire system, the SERIES 50 draws its power exclusively from the 4-20mA setpoint signal. The SERIES 50 delivers a level of accuracy and consistency not previously obtainable.

Below: *The SERIES 50 with the cover off. Just three keys access all of the pre-programmed functions.*

Industry Approvals:

FM / CSA
Class 1, Division 2,
Intrinsically Safe
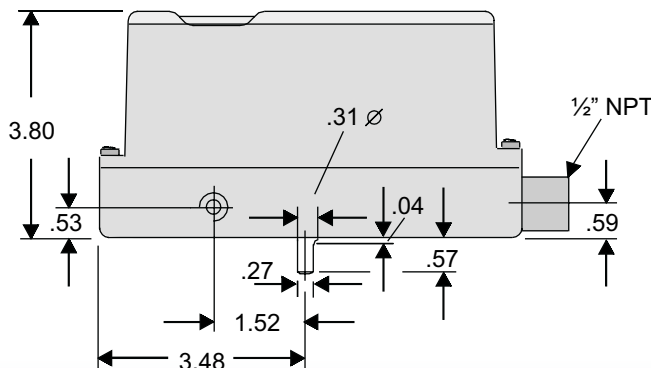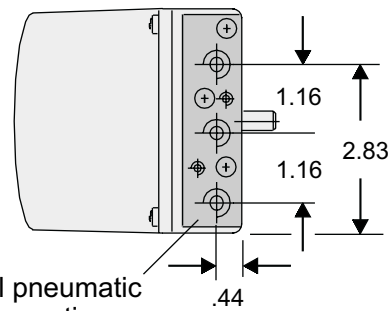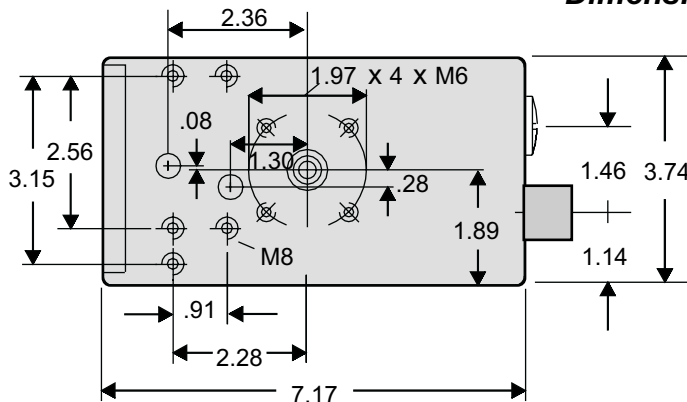
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Intelligent Part Number System

5 1 S R - 0 0 0 S

| Series | Type | Hart | Alarm | Feedback | Gauges |

Description	Code
Series: Series 50	
IEC Zone 1	50
FM/CSA Div. 2	51
FM/CSA Ex-Proof	52
Type	
Single Acting	SR
Double Acting	DA

Description	Code
Hart Module	
None	0
With Module	1
Alarm Module	
None	0
With Module	1

Description	Code
Position Feedback	
None	0
4-20 mA	1
Gauges	
None	N
With Gauges (SR)	S
With Gauges (DA)	D

Specifications

Mounting Position:	Any, exhaust / shaft not upwards	Temperature Range:	-22° F to +176° F
		Vibration Resistance:	8g at 100 Hz
Linear - Travel Range:	3 to 130 mm	Enclosure Protection:	Nema 4, 4x
Angle of Feedback Shaft:	16° to 90°	Enclosure Material:	Fiber-reinforced Macrolon
Rotary - Angle of Rotation:	30° to 100°		
Connection - electric:	1/2" NPT	Pressure Display Block:	Anodized Aluminum
Connection - pneumatic:	1/4" NPT	Input:	4 to 20 mA
Controller: Five Way Switch:	Self-Adjusting	Current to maintain:	>3.6mA
Response Time:	1.5 secs.	Required load voltage:	10V, 11V w/HART

Dimensions

All pneumatic connections ¼" NPT

Mounting kits

Linear, 2 to 35 mm stroke	BKT-PS101
Lever for > 35 to 130 mm stroke	BKT-PS102
Rotary*, NAMUR 80 x 30 x 20	BKT-PS001
NAMUR 80 x 30 x 30	BKT-PS002
NAMUR 130 x 30 x 30	BKT-PS003
NAMUR 130 x 30 x 50	BKT-PS004

*Rotary kits include precision zero-hysteresis coupler