

PNEUMATIC, ELECTRO-PNEUMATIC  
AND SMART POSITIONERS



## POSITIONERS

Pneumatic, Electro-Pneumatic and Smart

### ABOUT POSITIONERS

#### CONVENTIONAL

The range of pneumatic and electro-pneumatic positioners is easy to set up and calibrate. Their modular design makes them versatile and suitable for almost any pneumatic application. They are field reversible and corrosion resistant.

- Modular design
- Rotary, Linear, Single and Double Acting
- Ex ia as a standard
- 20 - 100 kPa, 4 - 20 mA
- Suitable for up to 10 bar air supply

#### SMART

The range of smart positioners is microprocessor-controlled, providing rapid, high-precision signal processing for input and position feedback.

- Rotary and Linear
- 4 - 20 mA, HART®, Profibus, Fieldbus
- Low air consumption
- Remote mounting



## SUMMARY OF KEY FEATURES AND BENEFITS

Model	Key features	Key benefits
	Suitable for 20 - 100 kPa or 4 - 20 mA signal	Versatile
	Either single or double acting	Versatile
	Optional gauges	Versatile
	Optional actuator position feedback	Modular
	Up to 10 bar air supply	Versatile

SMART POSITIONER	Auto calibration	Saves time
	Low air consumption	Saves money
	Diagnostics	<ul style="list-style-type: none"> <li>* Compares current performance with original as new</li> <li>* Triggers alarms when deviation exceeds specified value</li> <li>* Can predict valve / actuator failure before it occurs</li> </ul>
	2-wire communication	<ul style="list-style-type: none"> <li>* Many units are linked onto one loop</li> <li>* Saves installation costs</li> </ul>



## APPLICATIONS

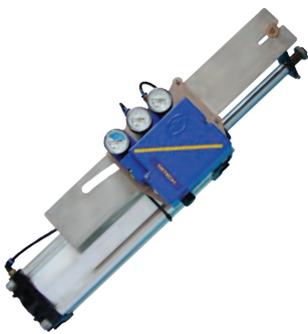


Mounting to Linear Actuators to DIN/IEC 534

### LINEAR

#### (short strokes up to 200 mm)

In this application the positioner is shown mounted to a typical Linear Actuator. This mounting can cater for stroke lengths from 6 mm up to 200 mm.



Mounting to Linear Power Cylinders

### LINEAR

#### (long strokes 150 - 1000 mm)

The only difference here is the use of an external cam assembly which is used to reduce long strokes to a rotation of the internal cam which the positioner can deal with - also usually 60°. On the external cam assembly, the only thing that changes with different stroke applications is the slotted cam plate. The make of cylinder will determine the design of the mounting brackets.



Mounting to Rotary Actuators to VDI/VDE 3845

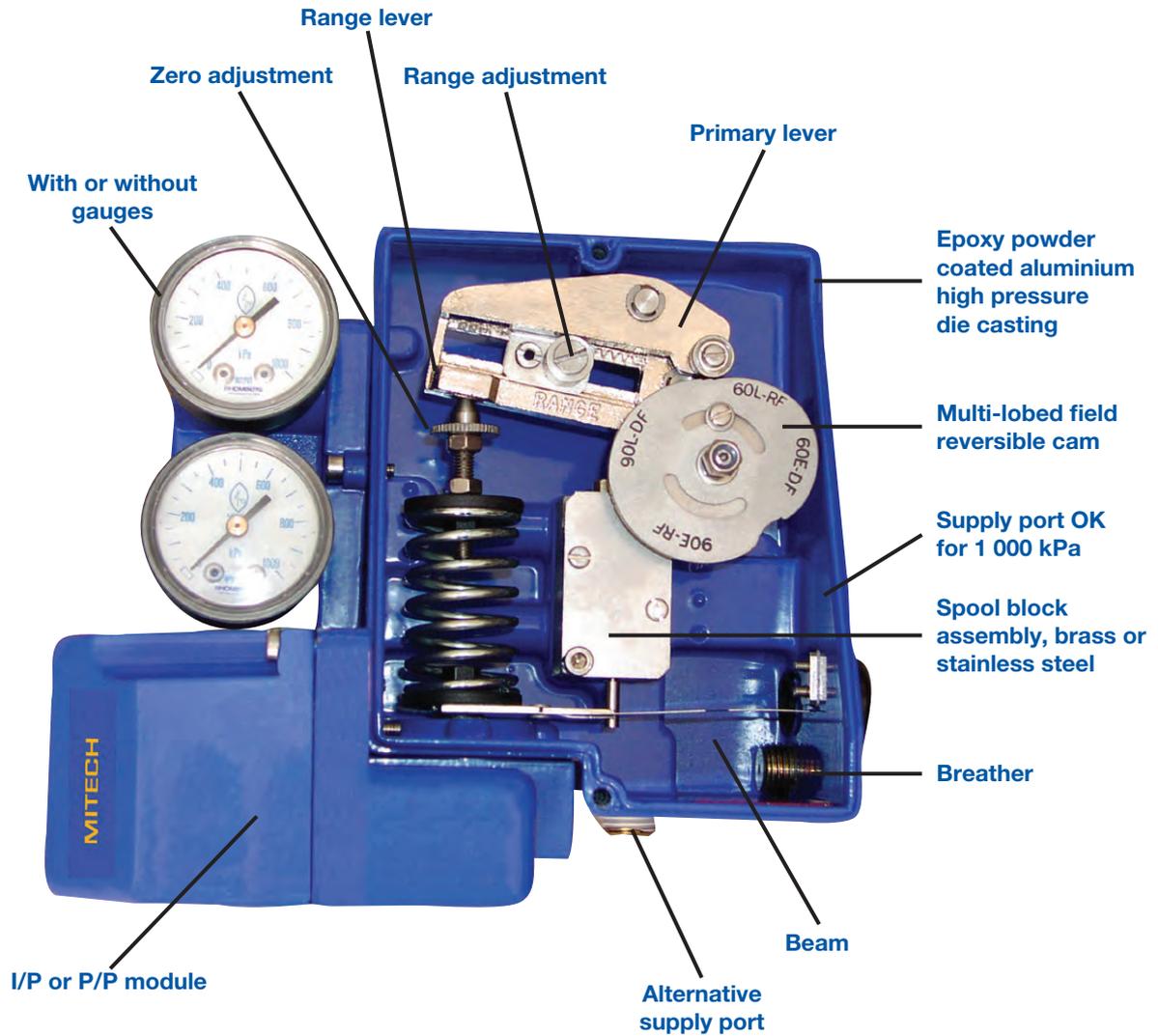
### Rotary Actuators

Here, the same positioner is mounted on a typical rotary quarter-turn actuator. The positioner can be supplied with a NAMUR shaft and any supplier's NAMUR bracket can then be used to cost-effectively mount the positioner to the actuator. Should the actuator not conform to NAMUR, separate brackets and couplings would have to be manufactured.



All conventional positioners can be fitted with position feedback transmitters

## CONVENTIONAL POSITIONERS - PNEUMATIC AND ELECTRO-PNEUMATIC



### Versatile

- \* Suitable for linear pneumatic actuators (6 mm - 1000 mm)
- \* Suitable for rotary pneumatic actuators
- \* A multi-lobed cam which suits most applications

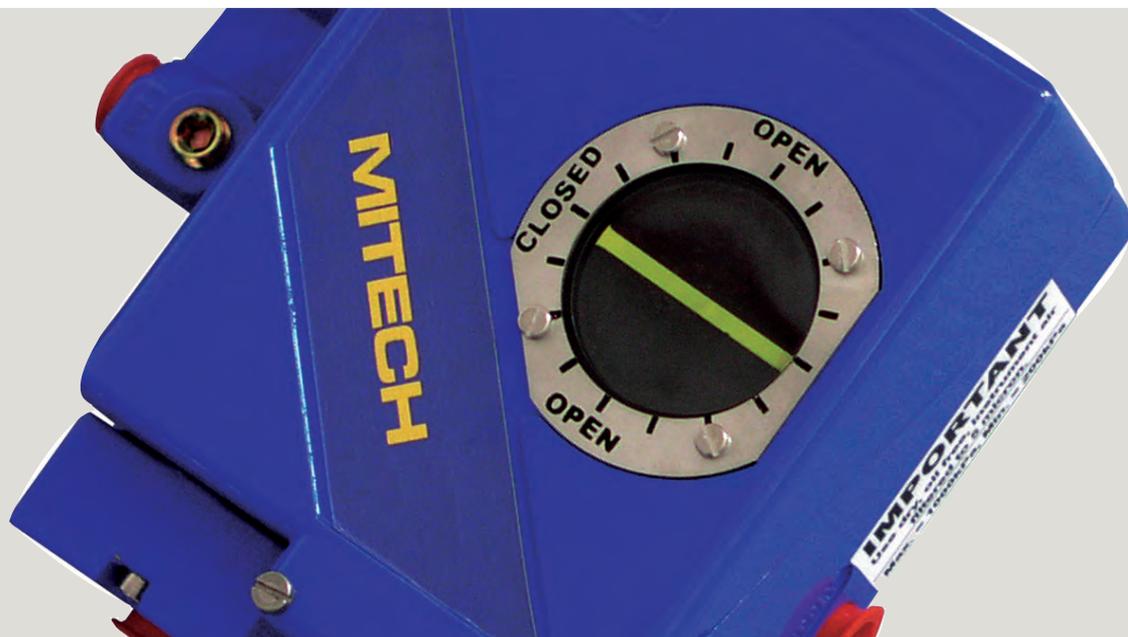
### User-friendly

- \* Easy to set up and calibrate
- \* Two alternative supply ports
- \* Two alternative signal ports
- \* No regulator required - OK for 1 000 kPa
- \* Field reversible

### Other features

- \* Corrosion resistant and robust construction
- \* Intrinsically safe with ATEX approval
- \* Made in South Africa - all spares available ex-stock
- \* Choice of cam characteristic
- \* Available with a NAMUR mounting arrangement





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