

# SP500 programmable positioner

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## The evolution of smart valve positioners

The SP500 is a fully featured smart valve positioner for demanding applications that has been designed for easy commissioning with its user-friendly interface and straightforward set-up procedure.

Reliability and accuracy are paramount with all instrumentation and the SP500 takes these aspects to a new level; the use of piezo-electric technology at the heart of the positioner means accurate conversion of signal-to-position and gives it unrivalled reliability when compared to traditional positioner technology.






With increasing pressure on industry to reduce carbon emissions and save energy, a reduction in the running costs of plant comes as a welcome opportunity. Therefore, we have listened to customers' concerns regarding compressed air waste and have designed the SP500 to have negligible running costs; typically consuming less than 1% of the air of a traditional electropneumatic positioner.

The SP500 has an adaptive action that compensates for fluctuations in supply pressure and valve stem friction, thus enabling guaranteed process stability.

Non-contact magnetic feedback eliminates hysteresis and ensures accuracy. Unlike traditional feedback arms, the innovative non-contact feedback system is unaffected by corrosion that can cause positioners to stick or give inaccurate readings. Fewer components in the overall design mean guaranteed long-term reliability and reduced lifecycle running costs saving maintenance time.



# Key features and benefits

	Key feature	Key reason	Key benefit
	<b>One touch commissioning</b>	For standard single-acting applications	Reduces time and cost
	<b>Non-contact Hall effect feedback device</b>	Ensures immunity from corrosion and hysteresis	Gives accurate feedback
	<b>Energy efficient</b>	Digital air control, near zero air consumption at controlled position	Low running costs
	<b>Programmable functions via integral keypad</b>	Easy and quick to commission, easy optimisation of valve performance	Control application optimised to application requirement
	<b>Class-leading low impedance design</b>	Multi-unit installations possible from a single analogue signal	Saves controller power and eliminates the need for auxiliary power supplies

## SP500 energy consumption

Type of positioner	Annual energy consumption in kWh at steady state conditions based on 8000 h/year and air at 100 psig	Annual energy consumption in megajoules at steady state conditions based on 8000 h/year and air at 100 psig
SP500 smart digital piezo-electric positioner	4.1	14.8
Traditional electropneumatic positioner	498	1 792

To learn more about how Spirax Sarco can help you save energy dollars and reduce carbon emissions, contact your local sales representative today.

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