

SP400

smart positioner



spirax
/sarco

SP400

Easily commissioned, better for the environment

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 SP400 to have negligible running costs; typically consuming less than 1% of the air of a traditional electropneumatic positioner.

The SP400 has been designed to ensure ease of commissioning with its simple user interface and straight forward set-up procedure. No specialist skills are required to get your digital valve positioner up-and-running so you can be confident that it will be right, first time.

The SP400 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.



Simple to commission

All SP400 units are supplied with a universal mounting kit making them quick and easy to assemble. They operate on a non-mechanical magnetic feedback system which is very easy to set-up and will not suffer wear, vibration or dirt problems. A simple autostroke routine makes it extremely quick and easy to commission and the keypad provides trouble free navigation through the menu system. Manual operation is available at the touch of a button.

Key features and benefits

	Key feature	Key reason	Key benefit
	One touch commissioning	For standard single-acting applications	Reduces time and cost
	Non-contact Hall effect feedback device	Ensures immunity from corrosion and hysteresis	Gives accurate feedback
	Gives accurate feedback	Digital air control, near zero air consumption at controlled position	Low running costs
	Programmable functions via integral keypad	Easy and quick to commission, easy optimisation of valve performance	Control application optimised to application requirement
	Class-leading low impedance design	Multi-unit installations possible from one 4-20 mA signal	Saves controller power and eliminates the need for auxiliary power supplies

SP400 energy consumption

Type of positioner	Annual energy consumption in kWh at steady state conditions based on 8000 h/year and air at 7 bar g	Annual energy consumption in megajoules at steady state conditions based on 8000 h/year and air at 7 bar g
SP400 smart digital piezo-electric positioner	4.1	14.8
Traditional electropneumatic positioner	498	1 792

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Some products, services or solutions may not be available in certain markets

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