DASTEC
30 años de soluciones para la industria

PROCESS INSTRUMENTATION

SIPART PS100 and SIPART PS2

One family that masters everything. Reliable and flexible valve control
usa.siemens.com/positioners

SIEMENS

As the interface between the control system and valves, positioners play an important role in ensuring reliability and optimal performance in your automated process plants. With the proven SIPART PS2 – now with new features – and the new SIPART PS100, we offer two positioners that are just right for your applications and requirements.

From basic to premium: SIPART PS100 and SIPART PS2

SIPART PS100 –
the simple controller

Not all applications need an all-rounder like the fully-featured SIPART PS2. That's why we expanded our portfolio to give you the option of a new and highly efficient electropneumatic positioner, the SIPART PS100. It's the right choice whenever you need a simple, fast, and reliable controller for standard applications.

Special features of the SIPART PS100:

- Quick to initialize
- Very robust and easy to operate

SIPART PS2 –
the all-round controller

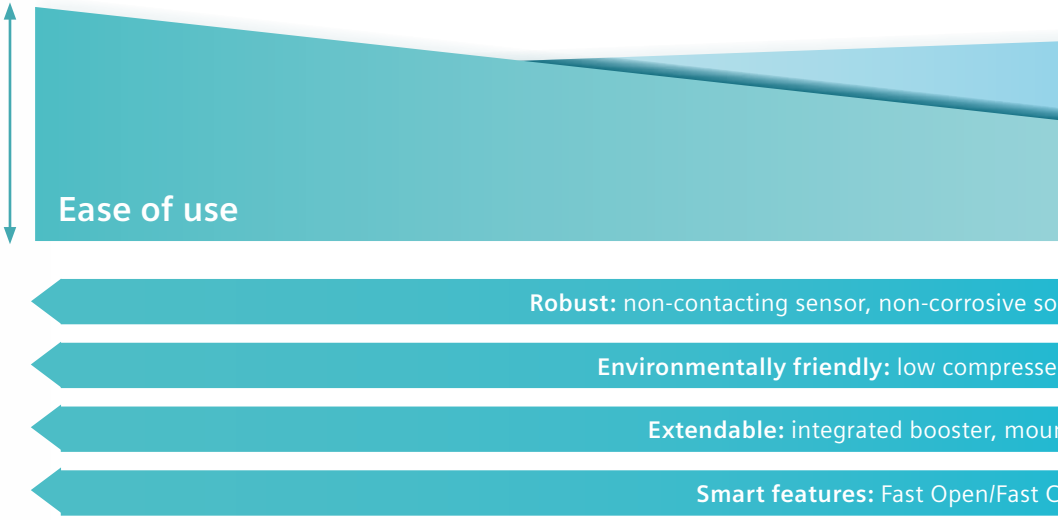
The SIPART PS2 has grown to become the most widely used positioner for linear and part-turn actuators. It has proved reliable in many valve control applications thanks to its diagnostic capability and extensive range of functions, which we've now extended even further.

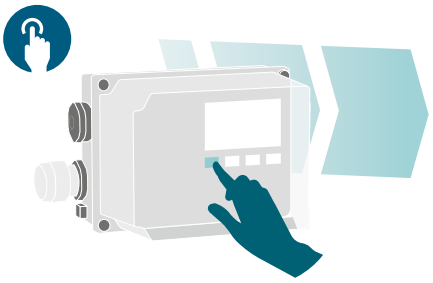
More functions, more options

- *Optional pressure sensors:* improved valve diagnosis and process parameter monitoring
- *Regular partial stroke tests:* ensured movement of emergency shut-down (ESD) valves and other open/close valves in the event of an emergency
- *Fail in Place:* the valve remains in its last position upon loss of electrical and/or pneumatic power
- *Fail Safe:* the valve moves to the safety position; also suitable for SIL2 applications
- *Valve performance tests (VPT):* immediate, on-site assessment of valve maintenance requirements

SIPART PS100 and SIPART PS2 – **the choice is yours**

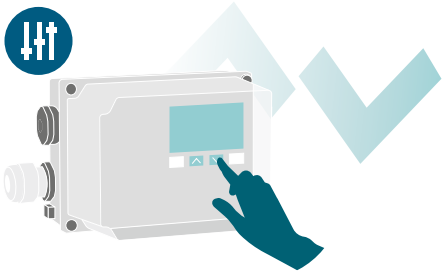
SIPART PS100





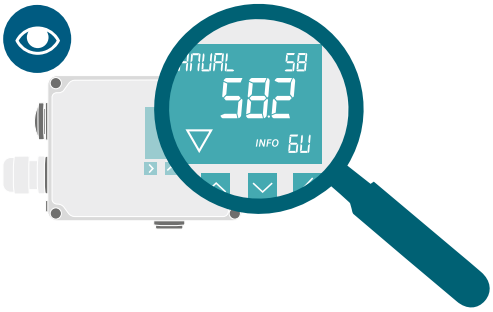
Quick to initialize

- One-push initialization: initialize at the push of a button
- Device automatically adjusts to the connected valve



Easy selection of the control mode

- Application parameters to select a range of modes, for example: precise control, on/off operation, booster applications
- Maximum performance for every application

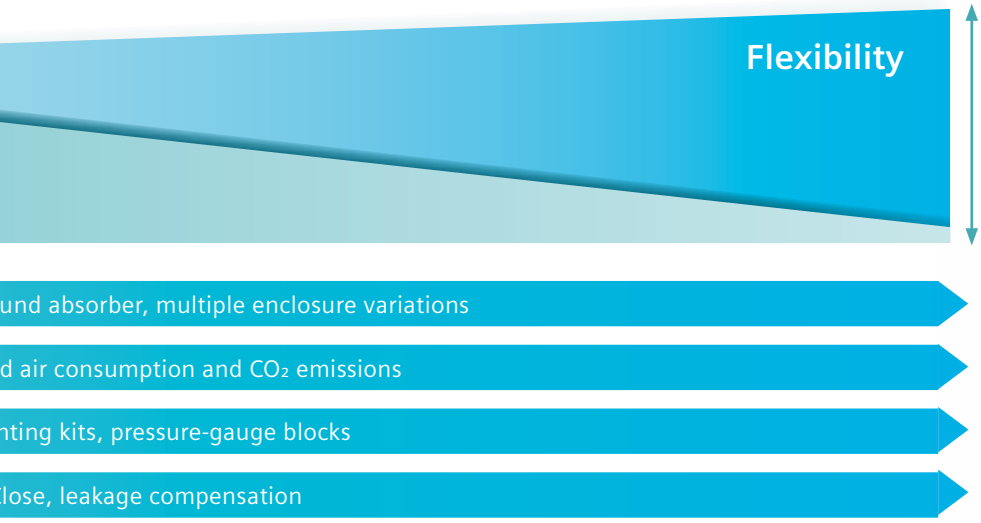


Valve status at a glance

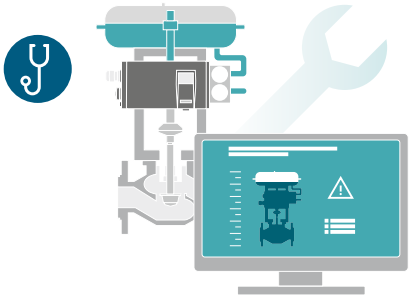
- Screen symbols in accordance with NAMUR NE107
- Local operation with large screen and four buttons

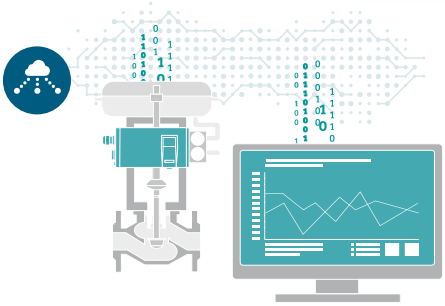
Animated video on the "ease of use" approach

SIPART PS100 or SIPART PS2 – you can make the choice that's right for you depending on your application. Whereas the main strength of the SIPART PS100 lies in its "ease of use" approach, flexibility is the name of the game with the SIPART PS2. We haven't cut any corners when it comes to the benefits they both offer.



SIPART PS2





Expanded diagnostic functions

- Integral pressure sensors monitor compressed air supply and valve chamber pressure
- Stable control, even in case of pneumatic leaks or deposit buildups
- Maintenance information on spring status, number of strokes, static friction affecting the gland seal, wear to the valve seat, and alerts in accordance with NE107

Digitalization

- Extensive control and diagnostic options using the valve monitoring app
- Fast and predictive determination of valve maintenance requirements
- Information transmitted to higher-level maintenance systems

Animated video on diagnostic functions

Animated video on valve monitoring app

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The future is digital

This refined positioner gives you the best possible support as you digitalize your processes.

Thanks to assessments using the Siemens valve monitoring app, SIPART PS2 provides you with end-to-end control and analysis options. This maintenance information can be transmitted to higher-level maintenance systems so you can plan and perform your maintenance activities predictively and flexibly adapt your service intervals to suit your requirements. The result is greater plant avail-ability and reliability as well as maintenance costs you can plan for.

The valve monitoring app alerts you to potential deviations during operation and lets you plan maintenance activities in advance.

Maintenance schedules are clearly displayed and can be accessed anywhere.

Two products **with a lot in common**

Lower CO_2 emissions and the right enclosures for your needs – the strengths of the SIPART devices include being environmentally friendly and very robust.

Extremely robust

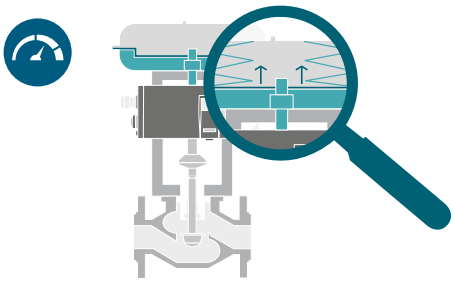
- Non-contacting sensor
- Non-corrosive sound absorber
- Range of enclosure options

Environmentally friendly portfolio

- Low compressed air consumption
- Reduced CO_2 emissions from compressors
- Compressed air savings of up to 90 percent possible compared with traditional devices

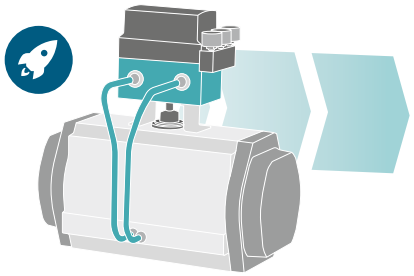
The expanded functions of the SIPART positioners offer you all the benefits needed to ensure that you're optimally prepared for the challenges the market can throw your way.

These functions include the unique Fast Open/Fast Close technology, integrated boosters to adjust large valves quickly, and the compensation of leakage.



Fast open / Fast close

- Faster valve adjustment thanks to smart chamber pressure control
- Air isn't completely released from the valve, so a new operation point is reached more quickly
- The result is a substantial reduction in costs



Integrated booster

- Fast adjustment for large drives
- Mounted directly on the positioner, reduces external tubing to a minimum
- Software-supported initialization directly from the positioner

Animated video on fast valve adjustment

Animated video on integrated booster

Designs
in the SIPART family

The positioner: an all-rounder that optimally meets a wide variety of requirements, whether in compact form for many standard applications or in a remote version for specific applications.

Compact positioners

SIPART PS100 in polycarbonate or aluminum enclosure

SIPART PS2 in polycarbonate, aluminum, or stainless-steel enclosure

SIPART PS2 (Ex d) in flameproof aluminum or 316L stainless-steel enclosure

Positioner with various external position detection systems

- Suitable for use in extreme ambient conditions, such as vibration
- Easier access to positioner for valves at not easily accessible locations
- Position detection available as standard solution or integrated in a robust aluminum enclosure

Want to know more about the SIPART PS100? Just scan the QR code to see the product video.

Be impressed by the SIPART PS2 all-rounder. Just scan the QR code to go to the product video.

Positioner with remote control electronics

- Suitable for use in environmental conditions with high-energy radiation
- Easier access to control electronics through control cabinet
- Distance between control electronics and valve can be up to one kilometer

Technical data	SIPART PS100	SIPART PS2
Enclosure	Aluminum, aluminum / polycarbonate	Polycarbonate, aluminum, stainless steel
Premium diagnostics	No	Yes
Modules can be retrofitted	No	Yes
Limit values	No	2 (mechanical or capacitive)
Digital input / digital output	1 DI /1 DO	2 DI / 3 DO
External position detection	No	Yes
Communication	4-20 mA	4-20 mA, HART 7, PROFIBUS PA, FF
EX certificates	• ATEX, IEC: Ex i. ec, t, Ex d • FM, CSA: IS, NI/I/2, DIP, XP	• ATEX, IEC: Ex i. ec, t, Ex d • FM, CSA: IS, NI/I/2, DIP, XP
Ambient air temperature	-4 to +176 °F, -20 to +80 °C	-22 to +176 °F, Option: -40 °F -30 to +80 °C, Option: -40 °C
Max. air consumption in the controlled state	0.006 scfm (0,01 Nm3/h)	0.006 scfm (0,01 Nm3/h)
SIL	No	Yes

Our portfolio **has you fully covered**

Siemens brings you a broad spectrum of process instrumentation, analytics, communication and automation solutions suitable for virtually every chemical application.

Flow

Electromagnetic	Coriolis	Clamp-on ultrasonic	Vortex

Reliable SITRANS F flowmeters are capable of meeting even the toughest challenges by monitoring gases and liquids of varying consistencies.

Pressure

Transmitters	Remote seals

Siemens offers a wide range of accurate, robust and intuitive devices for all types of pressure measurement.

Temperature

Sensors	Transmitters	Multipoint

SITRANS T temperature devices are designed to support all common RTDs, thermocouples, resistance and millivolt sensors.

Level

Radar	Guided wave radar	Point level	Ultrasonic

Whether you need to detect liquids, slurries, bulk solids, foam or interfaces, Siemens provides the right level measuring technology for all types of applications.

Positioner

The SIPART PS2 electropneumatic valve positioner offers extensive diagnostic functions and minimal loss of process air.

Weighing

Static weighing	Dynamic weighing	Integrators

SIWAREX PLC-based weighing electronics allow for direct integration into the Siemens range of PLCs, providing unparalleled flexibility and ease of use.

Process protection

Acoustic sensors

Motion sensors

Siemens non-contacting sensors for process protection comprise a highly reliable early warning system.

Gas analysis

Continuous gas analytics

Gas chromatography

Gas analysis instruments from Siemens cover a wide range of measuring tasks and are the ideal solution for process and quality control.

Industrial communication

Switching and routing

Wireless communication

Remote communication

Network security

Siemens industrial-grade communication solutions enable secure, reliable and high-availability network connectivity in harsh environments.

Monitoring Apps

WatMon

TankMon

Valve Monitoring

Siemens offers today's facility operators and managers the ability to remotely monitor the activity and health of process equipment, regardless of whether it's local to the plant or in the most remote of locations.

Automation and engineering solutions

Process control systems

Plant engineering

Simulation

Operations intelligence

To maximize efficiency and competitiveness in an increasingly digitalized world, Siemens provides innovative solutions for process control, plant engineering, simulation and operations intelligence.

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