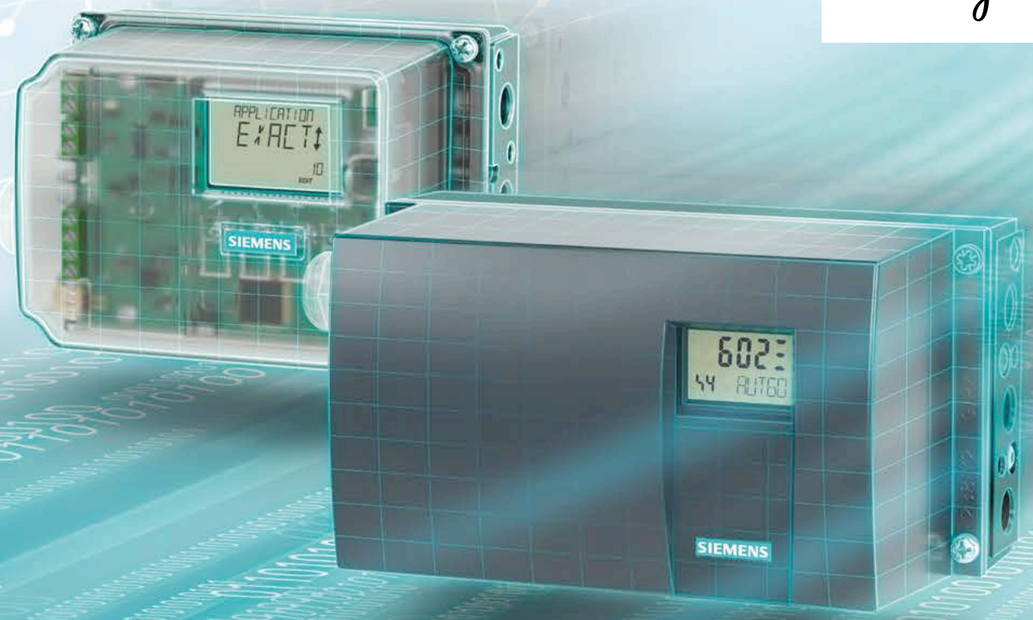
SIEMENS

Ingenuity for life



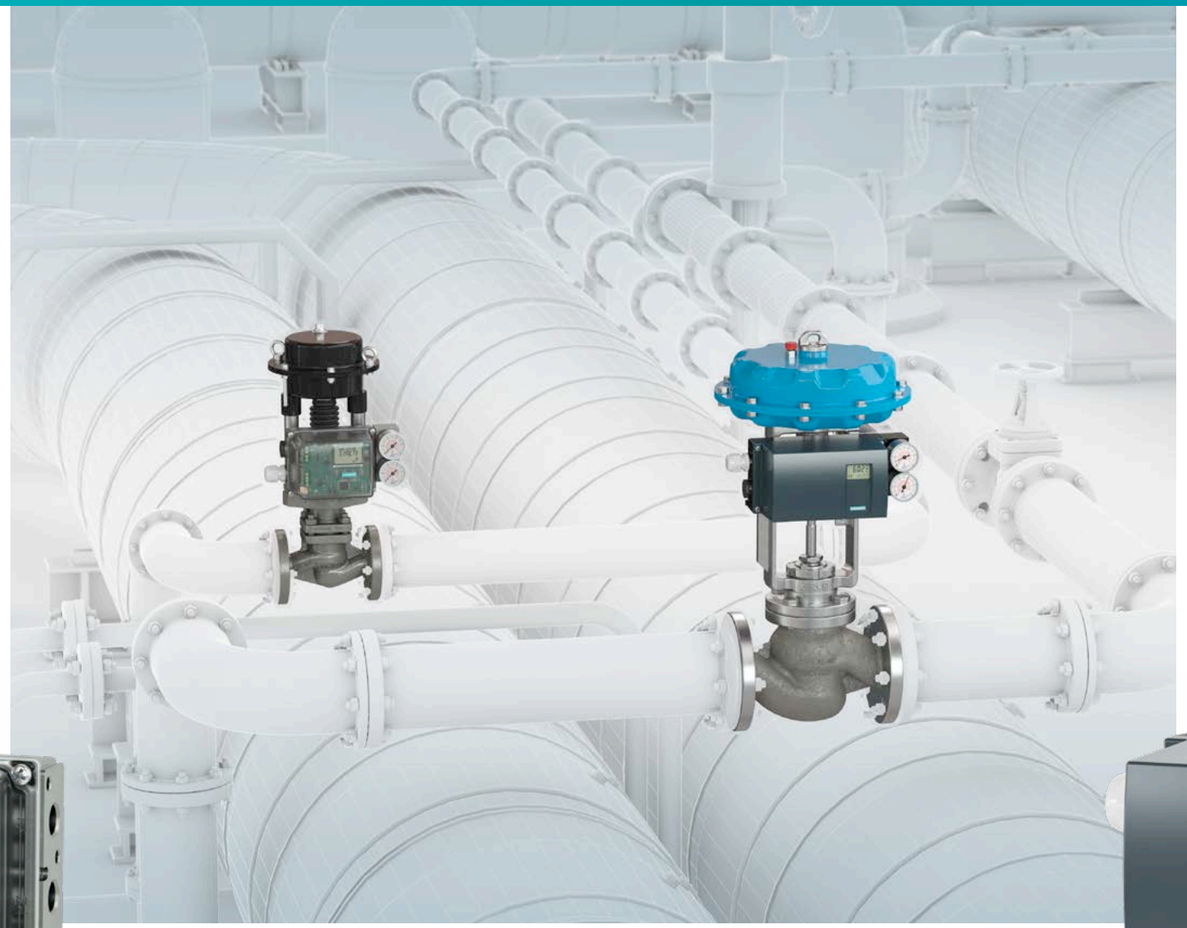
One family that masters everything: SIPART PS100 and SIPART PS2

Reliable and flexible valve control

siemens.com/positioners

From Basic to Premium: SIPART PS100 and SIPART PS2

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.



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 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 sensor-based diagnostics: improved valve assessment 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
- Valve performance tests (VPT): immediate, on-site assessment of valve maintenance requirements

Selectable behaviour in case of a failure

- Fail Safe: the valve moves to the safety position; also suitable for SIL2 applications
- Fail in Place: the valve remains in its last position upon loss of electrical and/or pneumatic power
- Fail to Open: Venting upon loss of electrical power; the valve moves to the preferred position

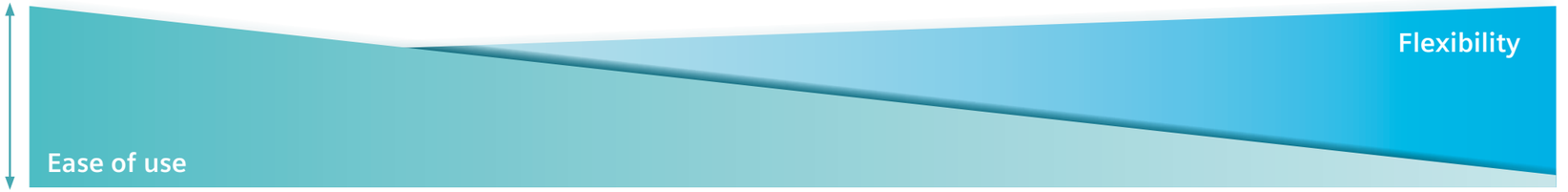


SIPART PS100 and SIPART PS2 – the choice is yours

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 PS100



Robust: non-contacting sensor, non-corrosive sound absorber, multiple enclosure variations

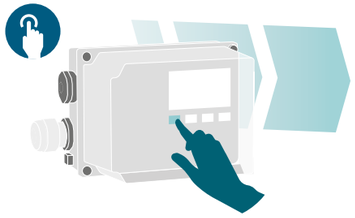
Environmentally friendly: low compressed air consumption and CO_2 emissions

Extendable: integrated booster, mounting kits, pressure-gauge blocks

Smart features: Fast Open/Fast Close, leakage compensation



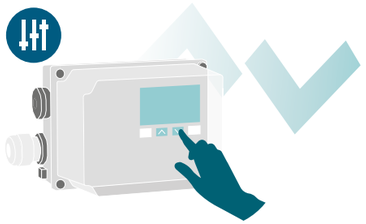
SIPART PS2



Quick to initialize

» One-push initialization: initialize at the push of a button

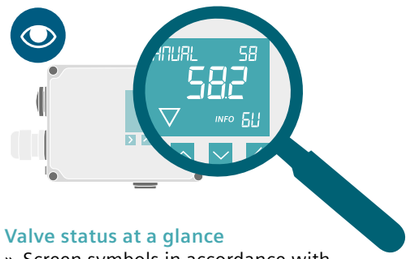
» Device automatically adjusts to the connected valve



Easy selection of the control mode

» Application parameters to select a range of modes, for example: precise control, on/off operation, booster applications

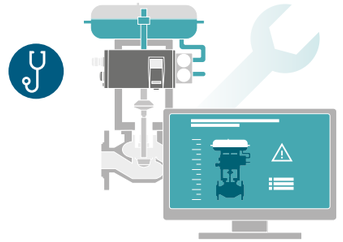
» Maximum performance for every application



Valve status at a glance

» Screen symbols in accordance with NAMUR NE107

» Local operation with large screen and four buttons

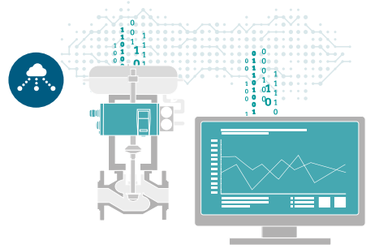


Expanded diagnostic functions

» Integral pressure sensors monitor compressed air supply and signal 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 the "ease of use" approach

Animated video on diagnostic functions

Animated video on valve monitoring app

The future is digital

Valve Monitoring App

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 availability 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.

Wireless access to SIPART PS100 valve positioner

Via easy to retrofit Bluetooth® adapter and SITRANS mobile IQ app

Easy access to SIPART PS100 in difficult accessible locations

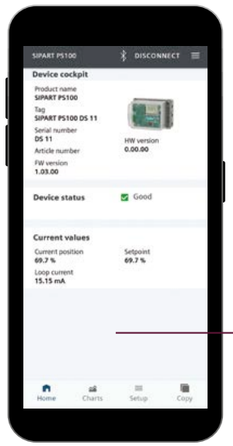
- Time savings and less safety issues to access SIPART PS100 from a distance via mobile phone or tablet

Easy and fast commissioning

- Commissioning via SITRANS mobile IQ app is much easier and comfortable than commissioning via display and buttons of the field device
- Especially time-saving for the case of several devices by copying parameters from one device to another

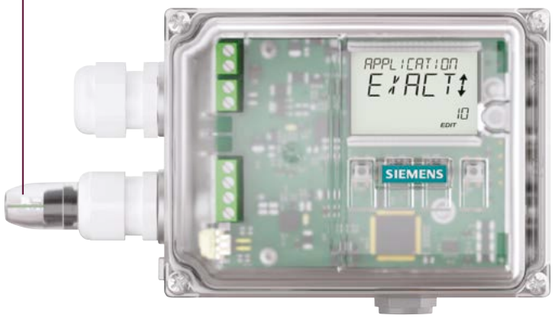
Readout of important information that is not displayed on local device display

- SITRANS mobile IQ app shows trend charts of process values and displays diagnostic data
- Complete error messages and description for corrective actions
- Access to manual, certificates, FAQ's and more



SITRANS mobile IQ app
Smart app that establishes a connection to Bluetooth® enabled SIPART PS100

SITRANS AW050
Easy to retrofit Bluetooth® adapter for SIPART PS100



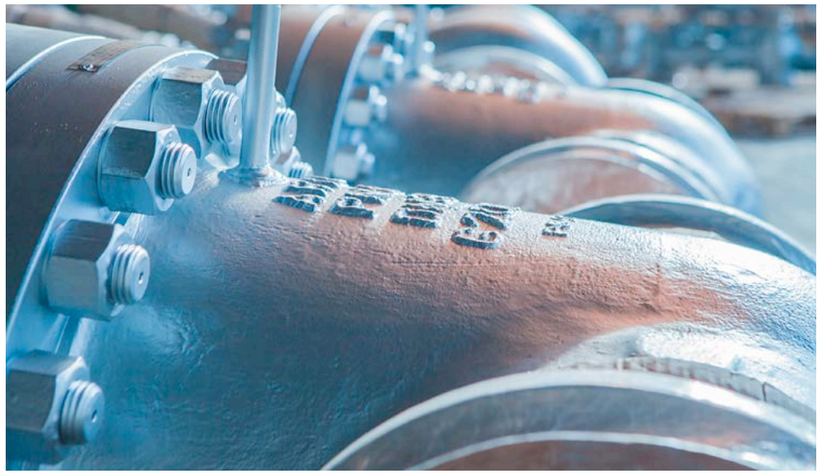
https://siemens.com/sipartps100
https://siemens.com/mobileiq

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.

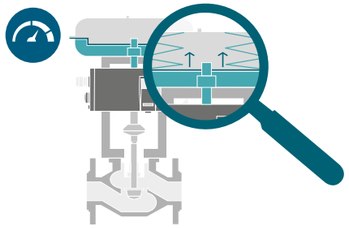
Extremely robust
- Non-contacting sensor
- Non-corrosive sound absorber
- Range of enclosure options

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



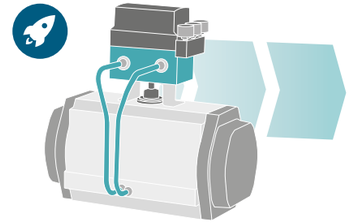
The expanded functions of the SIPART positioners offer you all the benefits needed to ensure that you're optimally prepared for the challenges the market can throw your way.

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

Animated video on fast valve adjustment



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 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



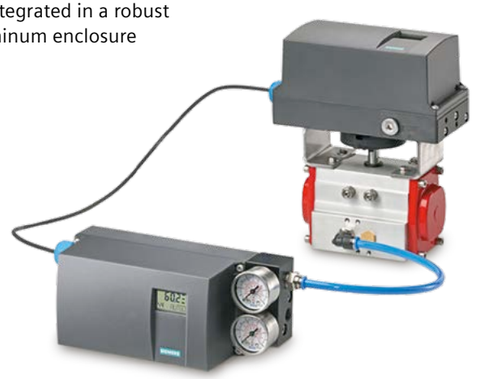
SIPART PS100 in polycarbonate or aluminum enclosure



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



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	1 (electronic))	2 (electronic, mechanical or capacitive)
Digital input / digital output	1 DI / 1 DO	2 DI / 3 DO
External position detection	No	Yes
Communication	4 ... 20 mA, HART, Bluetooth	4 ... 20 mA, HART, PROFIBUS PA, FF
Explosion protection	• ATEX, IECEx: Ex i, Ex e, Ex t • FM, CSA: IS, NI/I/2, DIP • Many more certificates at: http://www.siemens.com/processinstrumentation/certificates	• ATEX, IECEx: Ex i, Ex e, Ex t, Ex d • FM, CSA: IS, NI/I/2, DIP, XP • Many more certificates at: http://www.siemens.com/processinstrumentation/certificates
Ambient air temperature	–20 ... +80 °C, –4 ... +176 °F	–30 ... +80 °C, Option: –40 °C, –22 ... +176 °F, Option: –40 °F
SIL	No	Yes



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.

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