

**SIEMENS**

# SIPART PS2 has more functionality than ever – see what's new!

Process Instrumentation



Integral Volume Booster

The SIPART PS2 demonstrates the versatility and reliability that you have come to expect from Siemens. While Siemens leads the market with safe, uninterrupted performance, we're striving to develop new technologies to meet the changing market needs and expectations.

With that in mind, this year we are introducing new functionalities to our SIPART PS2 valve positioner: an Integral Volume Booster, Fail in Place functionality, and our Valve Performance Test through a HART update.

[usa.siemens.com/valveinst](http://usa.siemens.com/valveinst)

# New Design

## The Integral Volume Booster

The IVB is designed for pneumatic actuators that require high flow for fast stroking times. The unit reproduces pneumatic signals in a 1:1 ratio for applications that demand increased flow capacity and a reduction in piping, all while maintaining small step accuracy.

## Integrally mounted

The Siemens Integral Volume Booster couples to your PS2 valve positioner and directs a high volume air supply to the actuator. This feature eliminates the complex piping and additional fittings required with external volume booster devices, reducing material and labor costs as much as 60 percent.

## High flow rate

The Siemens Integral Volume Booster also provides a Cv of 2.0. This feature allows users that need high speed performance and accuracy to operate their large actuators and valves.

## Low bleed

Siemens PS2 offers one of lowest air bleed rates available. Air consumption has a monetary value that can be calculated using our Cost-of-Air Calculator. When paired together, the Integral Volume Booster and the PS2 provide a low bleed rate that decreases your total cost of ownership. Visit our website for more information: [www.usa.siemens.com/cost-of-air](http://www.usa.siemens.com/cost-of-air)

## Accurate positioning

The Integral Volume Booster utilizes an internal bypass for small step changes. This feature reduces overshoot and ensures accurate positioning.



Integral Volume Booster Setup



Traditional Volume Booster Setup

# New Capabilities

## Fail in Place Functionality

Traditionally, upon loss of power to the valve positioner, the device will fail to an end stop position. Our new, optional Fail-in-Place (FIP) feature causes the valve to remain in the last position when it loses power. This is particularly useful in damper control applications, but can also be beneficial for critical process control valves.

## Valve Performance Test

We are releasing new diagnostic features and control improvements via a HART Communication protocol update. The key feature in this update is a Valve Performance Test (VPT), which provides hysteresis, non-linearity, non-repeatability, maximum measured error and inaccuracy up/down. This test will provide a baseline as well as current data on your valve that will help you plan upcoming maintenance on your equipment. Users can now add the VPT to the already impressive monitoring capabilities the PS2 provides -all standard. These include continual monitoring of: valves strokes, stiction in the stuffing box and wear of the valve seat. Our Partial Stroke Test has been improved to provide ramping capabilities to reduce the impact on product during test operation. In addition, we've added a Logbook that will record the last 30 SIPART PS2 events and provide a timestamp of when they occurred. This is particularly helpful in identifying specific valve related issues. Lastly, utilize our new "Diagnostic Cockpit" to assess the status of any valve, at any time, with just a glance.

Employ these diagnostic features to efficiently plan your next plant outage and let the SIPART PS2 work for you.

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