



**SIEMENS**

# Designed for Safety

The SIPART PS2 puts the power in your hands with the “Fail Safe” or “Fail in Place” options.

## Process Instrumentation

The SIPART PS2 -the most widely used intelligent electro-pneumatic valve positioner for linear and rotary valve actuators- demonstrates the versatility and reliability that you’ve come to expect from Siemens. It not only has the ability to safely position a valve in the event of loss of air but also upon loss of control signal. The addition of this configurability allows you to safely utilize the SIPART PS2 in virtually every valve application, throughout your plant.

### **Failure modes with pneumatic actuators**

Pneumatic actuators are designed with failure modes in mind. Failure modes are defined as the position the valve will fail to upon loss of control signal or pneumatic air. Primarily, you see spring return actuators being used to control the fail method of the valve. Another way to control the failure mode is through the valve positioner. At times, both the actuator and positioner are setup to operate in conjunction.

[usa.siemens.com/ps2diagnostics](http://usa.siemens.com/ps2diagnostics)



### SIPART PS2 - "Fail Safe"

The SIPART PS2 has several failure modes and they vary based on the type of positioner (single acting or double acting) and the type of failure (electrical signal or pneumatic air). The PS2 comes standard as "fail safe". This means that for single acting actuators the output pressure will vent upon loss of control signal and air supply. For double acting applications, Y1 will go to maximum pressure and Y2 will vent upon loss of control signal. However, upon loss of air in double acting applications, the PS2 will block and trap the output pressure in the actuator. If an end-stop position is desirable, we offer a Venting Gauge Block (VGB). This VGB will allow one of the output ports to vent upon loss of air and safely position the valve at an end stop.

### SIPART PS2 - "Fail in Place"

At times, a process requires the valve to stay in its last position upon loss of control signal or air. This is particularly true in damper control applications as well as critical process control valves. For these applications, the SIPART PS2 has the answer. We've designed a Fail in Place option that will meet these specifications. Again, in the event of loss of control signal or pneumatic air the PS2 will trap the existing output pressure which, in turn, means the valve will maintain its position. This new design increases the configurability and adaptability of the PS2 for these specific applications.



Siemens Venting Gauge Block

Let us show  
you what  
better is.

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