

SIPART PS2  
Cost of Air Seminar

Estimating Compressor Leakage  
Leakage (%) =  $\frac{V}{(T+t)}$

T = on-load time (s)  
t = off-load time (s)

## Do you know the true cost of air in your plant?

SIPART PS2 Seminar

[usa.siemens.com/sipartps2](http://usa.siemens.com/sipartps2)



SIPART PS2

As a source of power, air is one of the easiest to transmit and use. Unfortunately, air power is one of the most costly to generate. Information from the United States Department of Energy (DOE) indicates a wide variety of factors determine the cost of compressed air. These include, but are not limited to, local electrical energy cost, efficiencies of electric motors and compressors, load factors, and service time.

Recently, users have become more aware of air leaks and the amount of money spent to replace lost power due to those leaks. Process plants use air as a power source to operate control valves. The air needed to operate these valves, sometimes

hundreds in one plant, is a necessary power source. Each one of these control valves uses a positioner to move the valve actuator, based on a set point signal from a controller. It is the positioner where we focus our attention on potential savings.

### Learn how valve issues affect valve performance

- Learn how to recognize and eliminate lost air energy
- Calculate the financial benefits in eliminating lost energy
- Review lost air from both "leak" sources and "equipment use" sources
- Learn how devices can pay for themselves within the first year

[usa.siemens.com/sipartps2](http://usa.siemens.com/sipartps2)



#### Why measure the cost of air?

Sixty years ago, when valve positioners were first introduced into the control loop, customers were not concerned with something called the “bleed rate” of the positioner. At that time, electrical energy was inexpensive. Over the years, we have taken for granted that a positioner is just part of the system and it operates on air.

Today, a modern process facility such as a power plant, refinery, or chemical plant can have several hundred control valves with positioners. The combined air loss due to the positioner “bleed rate” can be significant.

Siemens four-hour Cost of Air seminars compare the traditional positioner construction and its bleed rate to the Siemens Piezo-technology. We review the difference in cost based on electrical energy cost, service time, equipment efficiencies, and more.

#### Register today!

To find your local representative visit our cost of air web site: [www.usa.siemens.com/cost-of-air](http://www.usa.siemens.com/cost-of-air). Under Contact & Partner, select USA Sales locator by Zip code or call 1-800-365-8766.

Siemens Industry, Inc.  
100 Technology Drive  
Alpharetta, GA 30005

1-800-365-8766  
info.us@siemens.com

Subject to change without prior notice  
Order No.: PIFL-00086-0216  
All rights reserved  
Printed in USA  
© 2016 Siemens Industry, Inc.

These savings often pay for the positioner within the first year of use.

Let us prove to you the cost-saving benefits that can be achieved through the use of Siemens SIPART PS2 Piezo-technology. Each attendee will experience the simplicity of the unit as they calibrate their own working positioner.

#### Why you should attend?

We have indicated the cost of air can become a significant factor to your company’s bottom line. Come and learn how a wide range of unknown errors can generate unnecessary expense. Learn how to select and use air consuming instrumentation that can improve your carbon footprint and save you money. If you are in Plant Engineering, Operations, or I/E support this seminar will help you now and tomorrow.