

# Foxboro® Valve Positioner SRD998 Intelligent Control

Make the Most of Your Valve



## CVPPLUS

The intelligent positioner SRD998 is designed to operate pneumatic valve actuators and can be operated from control systems, controllers or PC-based configuration and operation tools such as the FDT/DTMs or VALcare™. The enhanced functionalities of the SRD998 Intelligent Valve Positioner enable a significant reduction in commissioning time and reduction of the total installation cost.

The new device offers an improved control performance with or without external accessories such as volume boosters for optimal efficiency of your process. The modular design makes maintenance simpler, and the advanced technology increases the total life time of the device.

### SRD998 Basic Diagnostic Version at a Glance

- **Fast Commissioning** with user-friendly LCD, rotary selector and intuitive menu
- **Full Valve Compatibility** with improved control performance and largest range of mounting kit and accessories
- **Seamless DCS Integration** – based on HART® 7

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## Valve Positioner SRD998 - Features

### Designed to protect

With a single user-dedicated compartment for cabling and configuration, the pneumatic and electronic parts remain isolated to avoid accidental damage.

### Fast commissioning

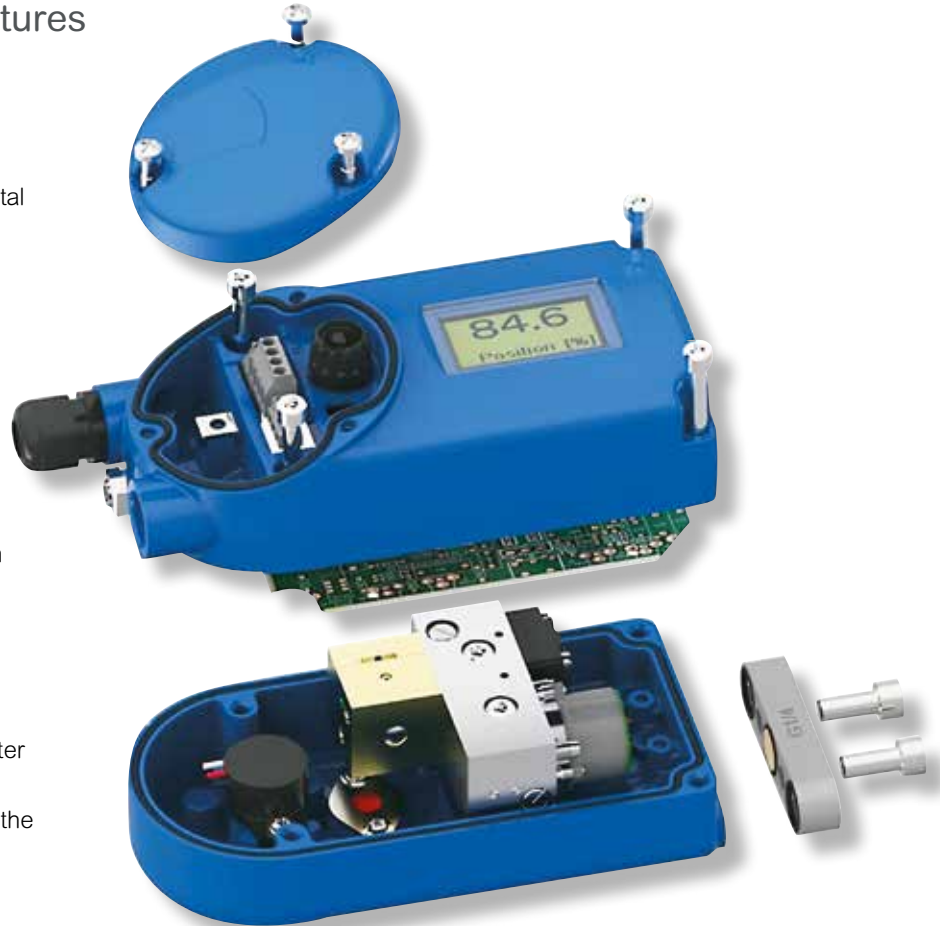
With 'turn & push' rotary selector and intuitive menu for fast local configuration and troubleshooting.

### Full Valve Compatibility

Proven in use with direct mechanical linkage, the SRD998 is supplied with the largest range of mounting kits, and an improved control algorithm for best performance of your valve.

### Stable accurate control

Based on the Foxboro best-in-class Flapper-Nozzle technology, the SRD998 provides unmatched stable control. Foxboro is the master of IP converter technology. This principle is a result of 20 years expertise and innovation; it is the heart of the positioner and ensures best control performance and unbeatable control stability.



## SRD998 Software and Diagnostics

**Full interoperability and integration into DCS for improved process performance**

### Communication Protocol

#### HART® 7

- Continuous diagnostic status monitoring
- Long 32-character tag for seamless reference to applications in the plant

### DTM (Basic diagnostic version)

#### Best in Class DTM (Device Type Manager)

Comprehensive graphical data for fast configuration

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## Valve Positioner SRD998 - Features continued

### User-friendly interface

#### Large visible LCD

- Readable at 4 meter distance
- Full Text Message display with Help File
- Chinese ideograms

#### Quick & Easy language selection

Easy selection of displayed language (6 embedded languages available)

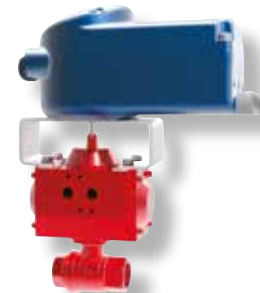
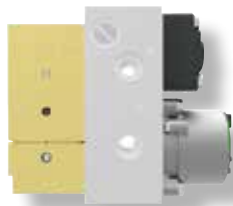
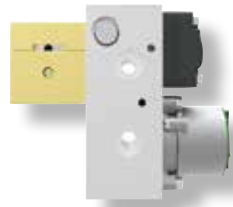
### Widest application coverage

#### Modular Pneumatic bloc

Selectable pneumatic amplifier airflow and type, to 'best fit' the application: single or double acting, with or without volume booster when needed.

#### To be fitted on any type of valve

Widest range of mounting kits to fit any valve



### Increased life-time

A controlled air consumption, not only increases energy savings but also reduces exposure of the IP convertor to damaging particles. This beneficial impact on the life-time is reinforced by the 2 stages of built-in filters for air supply, further protecting the internal pneumatic parts.

### Sustainability

Sustainability of SRD998 is achieved thanks to the increased life-time and an innovative modular design enabling the engineer to simply and easily change the defective part.

## Voice of Customer

"SRD Series are the most user friendly positioners!"

"Whichever control valve you choose, mounting and commissioning can be accomplished much more quickly, thus limiting shutdown operation."


"By standardizing SRD Series on our plant, we have reduced inventory, having only one device in stock and a bunch of mounting kits."

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## Valve Positioner SRD998 HART Basic Diagnostic - Specifications

<b>Input</b>	
<b>Signal range</b>	4-20mA
<b>Communication</b>	HART® 7
<b>Diagnostics</b>	Auto-diagnostics
<b>Pneumatic Performance</b>	
<b>Air pressure supply</b>	Supply air pressure...1.4 to 6 bar (20 to 145 psig) for SRD998-Basic Diagnostic (BD)
<b>Air flow</b>	<b>Choice of 2 pneumatics units:</b> Single acting BOS: Standard flow at 6 bars air supply: 14 Nm <sup>3</sup> /h (500 scfh) Double acting COS: Standard flow at 6 bars air supply pressure: 10 Nm <sup>3</sup> /h (350 scfh)
<b>Mechanical Performance</b>	
<b>Mounting</b>	One device for linear and rotary mounting. Mounting onto any valve
<b>Materials</b>	Housing and cover: Aluminum (Alloy No. 230) Powder coated
<b>Ambient temperature</b>	Operation... -40 to 80°C (-40 to 176°F)
<b>Protection class</b>	IP 66 / Type 4X
<b>Pneumatic connection</b>	G ¼ or ¼- 18 NPT
<b>Weight</b>	Single acting: 2.1 Kg/ 4.6 lbs (Double acting: 2.4 Kg/5.3 lbs)
<b>Electrical Classification</b>	Intrinsically Safe according to ATEX / IECEx II 2 G Ex ia IIC T4/T6 INMETRO EX ia IIC T4/T6 GB NEPSI Ex ia IIC T4/T6
<b>Human Machine Interface</b>	
<b>LCD Display language selection</b>	Embedded language...EN, DE, FR, ES, PT, CN
<b>Rotary Selector</b>	Turn & Push rotary selector to enable access to configuration, diagnostics messages
<b>Trouble-shooting</b>	<b>Auto-diagnostics with local alert pictograms according to NAMUR NE107:</b> Good, Maintenance, Alarm, Out of Specifications Easy access to local Help File for trouble-shooting
	 <div style="display: inline-block; background-color: #ffffcc; padding: 5px; margin-left: 10px;"> <p style="font-size: 24pt; margin: 0;">84.6</p> <p style="font-size: 12pt; margin: 0;">Position [%]</p> </div> <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> <p style="font-size: 10pt; margin: 0;">Potentiometer outside calibrated range</p> </div>
<b>Host Interface</b>	EDD for HOST using EDD technology EDD for Handheld terminal Certified DTM for use into an FDT frame, a standalone PC or any DCS
<b>Spare Parts</b>	Modular spare parts for easy maintenance and service
<b>Accessories</b>	<b>Complete range of accessories</b> • Fully compatible gauge manifolds • Volume booster • Adapted filters regulators

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