SRD998 Intelligent Positioner with HART Communication



The intelligent positioner SRD998 is designed to operate pneumatic valve actuators and can be operated from control systems (e.g. the Foxboro I/A Series System and Foxboro Evo™), controllers or PC-based configuration and operation tools such as the FDT/DTMs VALcare™. The positioner is available with HART 7 communication protocol. The extra large multi-lingual full text graphical-LCD, in conjunction with the rotary selector, allows a comfortable and easy local configuration and operation. For installations in contact with explosive atmospheres certificates are available.

MAIN FEATURES

Intelligent

- Auto-start with self-calibration
- Self diagnostics, status- and diagnostic messages
- DTM for valve diagnostics and predictive maintenance
- Easy local operation with the rotary selector
- Extra large multi-lingual full text graphical LCD
- · With HART 7 communication
- Stroke 8 to 260 mm (0.3 to 10.2 in) with standard lever; larger stroke with special lever

- Angle range up to 95 ° (up to 120 ° on request)
- Mounting onto any linear or rotary actuator
- Supply air pressure up to 10 bar (145 psig)
- Single or double acting
- Protection class IP 66
- Explosion protection: Intrinsic Safety according to ATEX / IECEx, INMETRO, NEPSI, PESO, CNS, EAC

Equipment should be installed, operated, serviced, and maintained only by qualified personnel.

No responsibility is assumed by Schneider Electric for any consequences arising from the use of this material.



Important Information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.





The addition of either symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

A DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

A CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Please Note

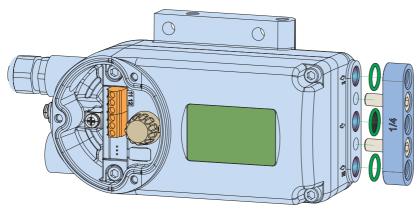
Electrical equipment should be installed, operated, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

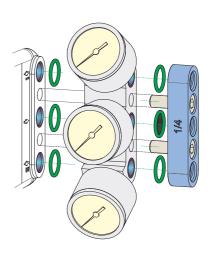
A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

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DESIGN





Thanks to the modular concept of the SRD998, the positioner can be optimally adapted to the application.

In addition to connection manifolds with various threads, mounting kits for each drive and extensive accessories, these also include integrated pneumatic amplifiers in various performance classes.

Pneumatic amplifiers

Depending on the actuator, a single- or double-acting pneumatic amplifier is used.

Codes BxS: single acting Codes CxS: double acting

Single-acting pneumatics have versions B0S, B1S and B2S that differ in air flow, see page 5.

For the double-acting pneumatics, there are the versions C0S, C2S and C3S, which differ in the air performance, see page 5.

For drives with increased air output, a correspondingly powerful supply air station is required, see next page.

TECHNICAL DATA

Supply

Supply air pressure	
B0S, C0S	. 1.4 to 6 bar (20 to 87 psig)
B1S, B2S	1.4 to 10 bar (20 to 145 psig)
C2S, C3S	1.4 to 10 bar (20 to 145 psig)
•	. 0 to ~100 % of supply air at 6 bar supply air pressure)

Air supply according to ISO 8573-1

- Solid particle size and density class 2
- Oil rate class 3
- Pressure dew point 10 K under ambient temperature

The use of a **filter regulator** for the air supply of positioner is strongly recommended. It reduces the air pressure to the actuator's maximum pressure, keeps it constant, and filters the air.

For the pneumatics with standard flow (B0S, B1S, C0S) we recommend the **FRS02**, **FRS03**, or **FRS923** filter regulator. When using other brands a filter grade of 30 μ m or better shall be supported.

For the pneumatics with high flow (B2S, C2S, C3S) we recommend the High Flow Filter Regulator **FRS04** or **FRS05** with a filter grade of 5 μ m. When using other brands a filter grade of 5 μ m shall be supported.

Travel range

Stroke range	. 8 to 260 mm (0.3 to 10.2 in)
with standard feedback le	vers; special levers on request
Rotation angle range	. without mechanical stop
	up to 95 ° angle
	(up to 120° on request)

Response characteristic 1)2)

Sensitivity< 0.1 % of travel span Non-linearity (terminal
based adjustment)< 0.6 % of travel span
Hysteresis< 0.3 % of travel span
Supply air dependence < 0.1 % / 1 bar (15 psi)
Temperature effect < 0.3 % / 10 K
Mechanical vibration effect acc. IEC 60068-2-6 (2007) for
10 to 500 Hz up to 2 g
For Pneumatics B0S, $< \pm 0.25\%$ up to 80 Hz and 1 g
$< \pm 0.25\%$ up to 70 Hz and 2 g
For Pneumatics B1S, B2S< ±0.25% up to 70 Hz and 1 g
$< \pm 0.25\%$ up to 50 Hz and 2 g
For Pneumatics C0S $< \pm 0.25$ % up to 400 Hz and 1 g
< ±0.25 % up to 70 Hz and 2 g

For Pneumatics C2S, C3S $< \pm 0.25$ % up to 55 Hz and 2g In case of high vibrations, we recommend using remote mounting solution.

Note for single / double acting operation

For optimal control performance, the use of *double* acting positioners onto *single* acting actuators is not recommended.

Usability

SRD998 Pneumat	іс Туре	SRD998 Pneumatic Technique	Recommended Filter regulator	Booster, if required
single acting	B0S	Diaphragm Amplifier	FRS923 / FRS02 / FRS04	VBS200 / VBS201 / VBS300 Series
double acting	COS	Diaphragm Amplifier	FRS923 / FRS02 / FRS04	VBS200 / VBS300 Series
single acting	B1S	Diaphragm Amplifier	FRS923 / FRS02 / FRS04	VBS200 / VBS201 / VBS300 Series
single acting	B2S	Diaphragm Amplifier	FRS04	VBS200 / VBS201 / VBS300 Series
double acting	C2S	Spool Valve	FRS04	Booster not recommended
double acting	C3S	Spool Valve	FRS04	Booster not recommended

¹⁾ Data measured according to VDI/VDE 2177 and IEC 61514-2

²⁾ With 90 ° angle, rotary actuator

Pneumatic Performance - Air flow

Air flow at Air Input / output:	3 bar	
Pneumatic Code B0S (single acting - Standar	d Flow, Standard Pneumatic)	
to pressurize actuator	7000	NI/h
to vent actuator	5000	NI/h
Pneumatic Code B1S (single acting - Standar	d Flow, High Performance Pneumatic)	
to pressurize actuator	7000	NI/h
to vent actuator	5000	NI/h
Pneumatic Code B2S (single acting - High Flo	w, High Performance Pneumatic) Cv 0.58	
to pressurize actuator	21500	NI/h
to vent actuator	15000	NI/h
Pneumatic Code COS (double acting - Standa	rd Flow Standard Pneumatic)	
to pressurize actuator	5000	NI/h
to vent actuator	3750	NI/h
Pneumatic Code C2S (double acting - High Fl	ow, High Performance Pneumatic)	
to pressurize actuator	7000	NI/h
to vent actuator	7000	NI/h
Pneumatic Code C3S (double acting - Very H	gh Flow, High Performance Pneumatic) Cv 0.8	5
to pressurize actuator	33500	NI/h
to vent actuator	33500	NI/h

Recommended pneumatics, depending on the actuator size:

- For actuators < 1 dm³ use the C0S, C2S, B0S, or B1S
- For actuators > 1 dm³ use the B2S, or C3S

Pneumatic Performance - Air consumption 1) [NI/h]

Air consumption at steady state:	3 bar	
Pneumatic Code :		
B0S (single acting - Standard Flow)	250	NI/h
B1S (single acting - Standard Flow, High Performance Pneumatic)	400	NI/h
B2S (single acting - High Flow, High Performance Pneumatic)	400	NI/h
C0S (double acting - Standard Flow)	335	NI/h
C2S (double acting - High Flow, High Performance Pneumatic)	400	NI/h
C3S (double acting - Very High Flow, High Performance Pneumatic)	400	NI/h

BOOSTERS for increased air flow

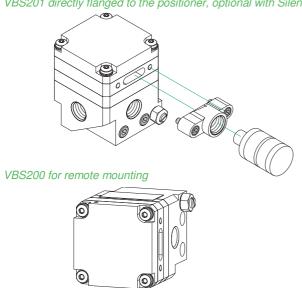
Volume Booster Series (to order as accessory)

For large actuators or to reduce action time, a volume booster may be necessary.

VBS200 / VBS201

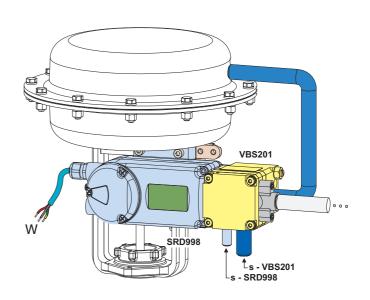
Volume boosters with Cv1.4 and pneumatic connection 1/2" Optional with exhaust collector, or Silencer

VBS201 directly flanged to the positioner, optional with Silencer



For more information please consult PSS EVE0602.

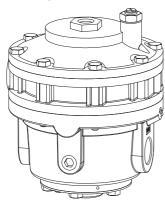
Examples for mounting



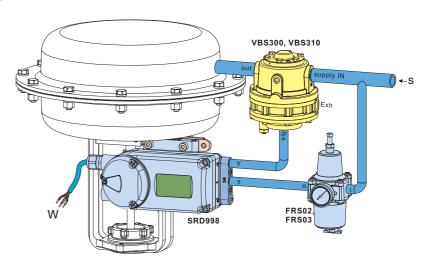
VBS300 / VBS310

Volume boosters with Cv 7 and pneumatic connection 1" for remote mounting

VBS300 in Aluminum, VBS310 in Stainless Steel 316



For more information please consult PSS EVE0603.



FUNCTIONAL SPECIFICATIONS

Features

Automatic start-up(Autostart functionality)
Automatic determination of the mechanical end positions of the valve (initial value and final value), IP motor parameters, direction of action of the spring, and control parameters. The control parameters are optimized dynamically during this routine.

This procedure makes a perfect adjustment and optimization to the actuator possible without additional manual settings! Several Autostart modes are available (details see on next pages).

Operation and Configuration

The local LCD enables a fast and easy configuration as well as clear diagnostic messages.

Local..... with local rotary selector Display..... multi lingual graphic LCD

The positioner contains the following menu languages:

- English German French Chinese Portuguese
- Spanish Polish Korean Swedish Italian Russian
- Turkish

Manual local and remote settings:

Actuator mode Linear valve Rotary actuator	. left or right mounted
	counter-clockwise
Valve characteristic	
	inverse-equal percentage
	or custom (22 points)
Valve action	
0 111	increasing set point
	free upper and lower values
	free upper and lower values
	. free upper and lower values
Stroke range	
Temperature unit	
Autostart	•
	- Standard Autostart
	- Enhanced Autostart
	- Smooth response
	- Fast response
	. Determined during Autostart.
Working range	
	indication on LCD)
Manual adjustment of	
	T63-time, and dead band
Manual operation	. Manual input of set point to
	drive the valve in steps of
	12.5 % or 1 %
Pneumatic test	
	pneumatic output
LCD orientation	. Standard, and upside down

Software supported configurations:

- By means of Hand Held Terminal (HART)
- PC by means of VALcare DTM Software

In case of Single Acting, Safety position at

- I/A Series System, Foxboro Evo and other DCSs

Issue handling

Diagnostic To monitor the high performance of the positioner, we offer several diagnostic utilities:

	Basic Diagnostics	Advanced Diagnostics
Configuration data surveillance	Yes	Yes
Input current adjustment surveillance	Yes	Yes
A/D converter surveillance	Yes	Yes
Position value surveillance	Yes	Yes
Connection to I/P converter surveillance	Yes	Yes
Potentiometer surveillance	Yes	Yes
Angle adjustment surveillance	Yes	Yes
Surveillance of reaching the set point in a specific time	Yes	Yes
Temperature limit min or max surveillance	Yes	Yes
Autostart surveillance	Yes	Yes
Custom Characterization		Yes
Auto diagnostic		Yes
Alarm Management		Yes
Alarm Output for Switching (with Option board)		Yes
Status List acc. NE107		Yes
Position History		Yes
Response History		Yes
Step Response Analyze		Yes

PHYSICAL SPECIFICATIONS (common data for all versions)

Mounting

Attachment to stroke actuators

- for casting yoke

acc. to IEC 534-6 (NAMUR) with attachment kit EBZG-H

- for pillar voke

acc. to IEC 534-6 (NAMUR) with attachment kit EBZG-K

Stroke range with feedback lever:

- standard (EBZG-A) 8 to 70 mm / 0.31 to 2.76 in

60 to 120 mm / 2.36 to 4.72 in - extended (EBZG-B)

- extended (EBZG-A1) 110 to 260 mm / 4.33 to 10.24 in

Larger stroke ranges can be realized with special levers.

Attachment to rotary actuators acc. to VDI/VDE 3845

with attachment kit EBZG -R

- Further attachment kits see ModelCodes page 15/16

- Mounting orientation see attachment dimensions starting from page 17

Materials

Housing and covers Aluminum Alloy No. 230

(GD-AlSi12) Polyester Powder coated

Sealings between coverssilicone elastomer and

silicone core with Ag/Cu particles

LCD Window Polycarbonate,

U.V. stabilized

External Screws...... Stainless Steel V2A 1.4301

Motherboard Coated with protective resin

All moving parts of feedback

system (e.g. shaft) 1.4306 / 1.4571 / 1.4104

Attachment kits V4A 1.4401 or

(depending upon version). Aluminum Alloy No. 230

(GD-AlSi12) finished with DD varnish

Mounting bracket Aluminum Alloy No. 230

(GD-AlSi12)

Pneumatic diaphragms VMQ, PVMQ (Silicone Elastomer, suitable for use in the paint industry)

(depending upon version)

Weight

With pneumatic BOS..... approx. 2.1 kg (4.7 lbs)

B2S approx. 2.2 kg (4.9 lbs)

COS approx. 2.3 kg (5.1 lbs)

C3S approx. 2.2 kg (4.9 lbs)

Pneumatic connection

NAMUR mounting................. G 1/4 or 1/4-18 NPT

via manifold

Electrical Connection

Line entry 1 cable gland M20 x1.5,

1/2-14 NPT (with Adapter AD-)

Cable diameter..... 6 to 12 mm (0.24 to 0.47 in)

Screw terminals 2 terminals for input

Wire cross section 0.3 to 2.5 mm2 (AWG 22-14)

max torque 0.6 Nm

Ambient conditions

Operating conditions acc. to IEC 654-1

The device can be operated at a class Dx location.

Ambient temperature

Transport and storage. . . . -40 to 80 °C (-40 to 176 °F) If the device is exposed to sunlight and the temperature may rise

above 80 °C / 176 °F, we recommend a sun shade.

Storage conditions

acc. to IEC 60721-3-1...... 1K5; 1B1; 1C2; 1S3; 1M2

Indicators

Relative humidity.....up to 100 %

Protection class

acc. to IEC 60529 IP 66

acc. to NEMA..... Type 4X

Electromagnetic compatibility EMC

Operating conditions.....industrial environment

Immunity according to

EN 61326 fulfilled

IEC 61326 fulfilled

EN 61000-6-2.....fulfilled

Emission according to

EN 61326

Class A and Class B fulfilled

EN 61000-6-4.....fulfilled

EN 55011 Group 1,

Class A and Class Bfulfilled

NAMUR recommendation

EMV NE21fulfilled

SAFETY REQUIREMENTS

CE label

Electromagnetic

Compatibility 2014 / 30 / EC

Low-voltage regulation.....not applicable

See also Declaration of Conformity.

Safety

According to EN 61010-1

(or IEC 1010-1)..... Safety class III

Overvoltage Category I

External fuses..... Limitation of power supplies for fire protection shall be observed acc. to EN 61010-1,

appendix F (or IEC 1010-1).

¹⁾ Details see Certificates of Conformity.

²⁾ Below –20 ℃ the LCD reacts only slowly; above +70 ℃ the background becomes dark (no damage when back into -20 to +70 °C range)

Electrical classification 1)2)

See Certificates of Conformity EX EVE0108 A

Intrinsically Safe according to ATEX / IEC Ex

Code A1, A2, or A3

A1 = II 2 G Ex ia IIC T4/T6 Gb / II 1 D Ex ia IIIC T100 $\,^{\circ}$ C Da or

A2 = II 2 G Ex ib IIC T4/T6 Gb / II 2 D Ex ib IIIC T100 $^{\circ}$ C Db or

A3 = II 3 G Ex ic IIC T4/T6 Gc / II 3 D Ex ic IIIC T100 $^{\circ}$ C Dc For use in hazardous areas in certified safe circuits with the following maximum values:

Pi	Ui	li	T4	T6
900 mW	30 V	130 mA	–40°C to	
900 11100	30 V	130 IIIA	80℃	
660 mW	28.1 V	130 mA	–40°C to	–40°C to
000 11100	20.1 V	130 IIIA	80℃	44℃
630 mW	25.7 V	130 mA	–40°C to	–40°C to
030 11100	25.7 V	130 IIIA	80℃	46℃
590 mW	25.3 V	130 mA	–40°C to	–40°C to
390 11100	25.5 V	130 IIIA	80℃	48℃
510 mW	26 V	130 mA	–40°C to	–40°C to
31011100	20 V	130 IIIA	80℃	52℃

 $Li = < 10 \ \mu H$ $Ci = < 2.5 \ nF$

IP degree acc. to IEC 60529.. IP 66

Other electrical certifications in progress

¹⁾ With appropriate order only

²⁾ National requirements shall be observed

SRD998 with HART communication SRD998-Hxxxx

(Frequency Shift Key) modulated on 4 to 20 mA 0.5 Vpp at 1 kOhm load

Input impedance Zi Z = 320 Ohms

for ac voltage 0.5 to 10 kHz with < 3 dB non-linearity Cable capacity and inductance see HART standard specifications (e.g. C < 100 nF).

Impedance of other devices at the input (parallel or serial) shall be within HART spec.

Applications without communication require not to exceeding input capacitance parallel to the input not higher than 5 $\mu\text{F}.$

Start-up time approx. 3 sec

Interruption time without power down . . . typ. 8 ms ²⁾

Configuration

The SRD998 can be configured via HART by any host system whatever is a PC with a HART Modem, Hand Held Terminal or a DCS.

LOCAL (by means of rotary selector and LCD display) See page 6

DTM (Device Type Manager)

We are a leading company in term of FDT-DTM technology

https://www.schneider-

electric.com/en/download/range/63514-

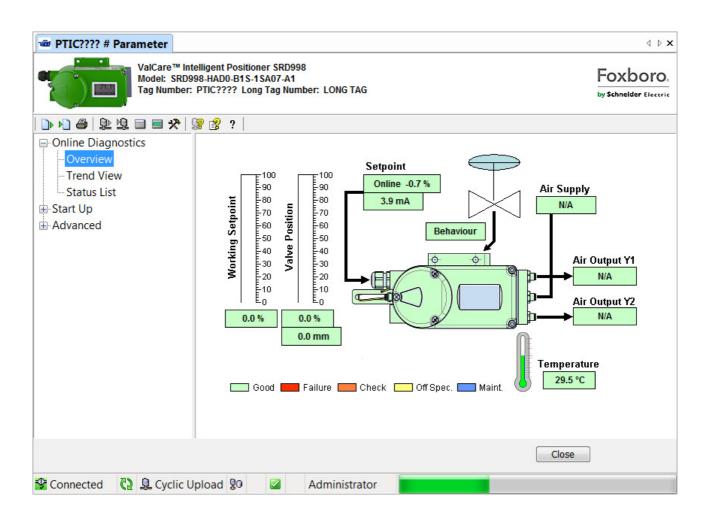
Valve%20Positioners/?docTvpe=4889330-DTM+files

Therefore we provide a DTM fully certified for its interoperability and with the state-of-the-art presentation and diagnostics features.

The DTM can be downloaded from our homepage.

DD (Device Description) and EDD (Enhanced Device Description)

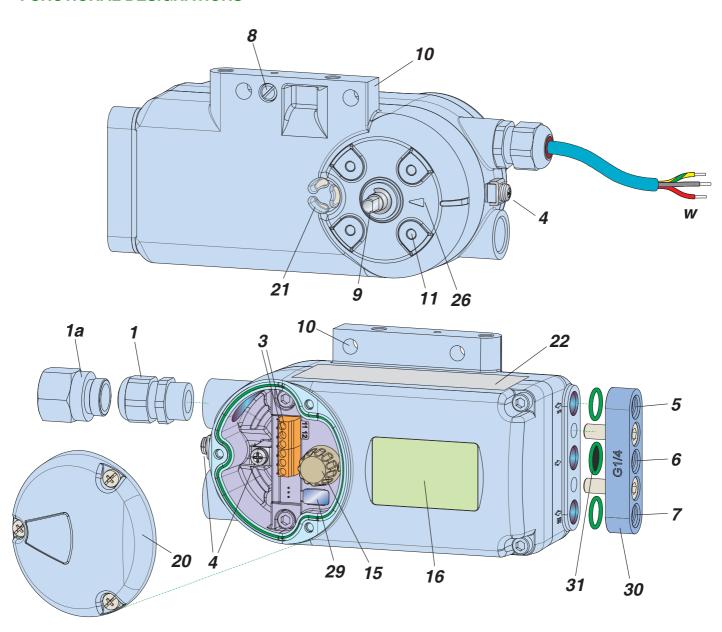
In case the host system is not supporting the FDT-DTM technology, you can download the DD and/or EDD from our homepage.



¹⁾ On request we can specify higher voltage limits

²⁾ Worst case conditions 4-20 mA, I/p-output with max. current

FUNCTIONAL DESIGNATIONS



- 1 Cable gland
- 1a Adapter, e.g. 1/2"-14 NPT
- $\boldsymbol{3}$ Screw terminals (11 / 12) for input (w)
- 4 Ground connection (inner and outer)
- **5** Output I (y1)
- 6 Air supply (s)
- 7 Output II (y2)
- 8 Direct attachment hole for output I (y1)
- 9 Feedback shaft
- 10 Connection manifold for attachment to stroke actuators

- 11 Connection base for attachment to rotary actuators
- 15 Rotary selector for select Menu, and press to confirm
- 16 LCD with true text in many languages
- 20 Cover for electrical connection compartment
- 21 Air vent, dust and water protected
- 22 Data label
- **26** Arrow is perpendicular to shaft **9** at angle 0 degree (to center the coupling and feedback lever at mounting)
- 29 Service only
- 30 Connecting manifold, G 1/4 or 1/4 NPT
- 31 Component O-ring with filter, for air supply

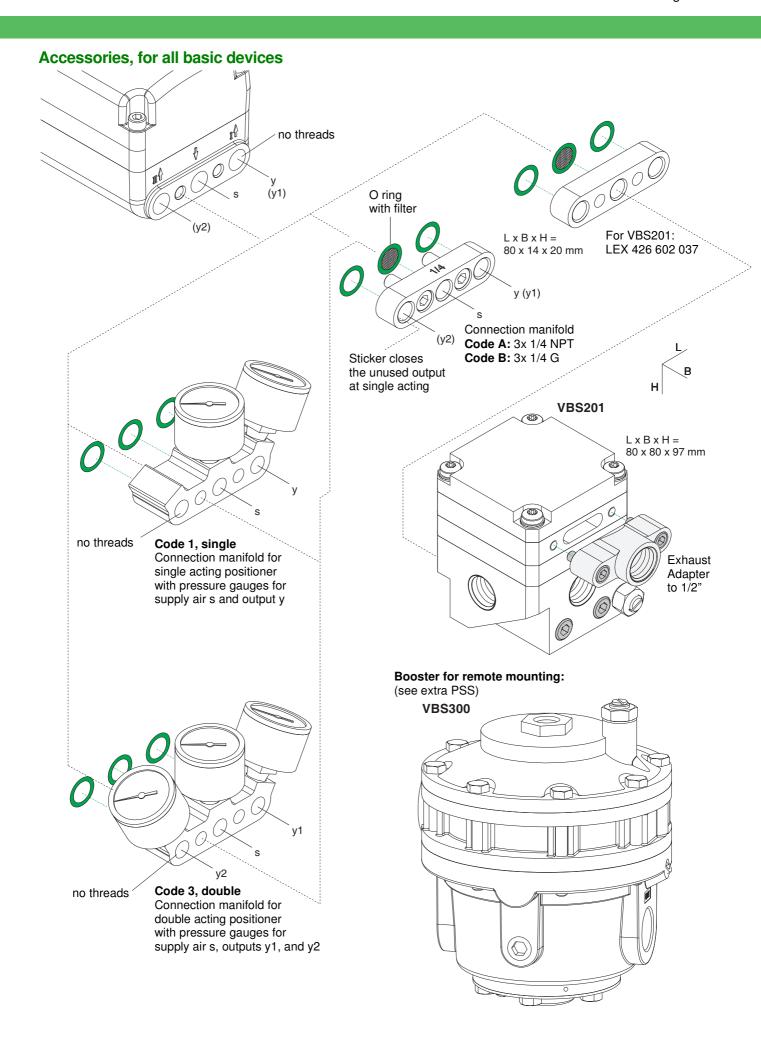
MODEL CODES SRD998

180719 SRD998 -Intelligent Positioner Communication HART H Profibus PA(a)....P FOUNDATION Fieldbus H1.....(a)...Q **Diagnostics Performance** Basic Diagnostics BD Advanced Diagnostics AD Premium Diagnostics(a) .. PD Partial Stroke Testing & Shutdown....(a) .. SA Partial Stroke Testing & SOV Monitoring (a). SB **Electrical In-Out Option** No In-Out Option0 Universal In-Out Option(a).... Version Single acting B Double acting C **Pneumatic Performance** Standard Pneumatic (max 6 bar air supply)0 Standard Flow - - High Performance Pneumatic (10 bar max air supply) 1 High Flow - - - - - High Performance Pneumatic (10 bar max air supply)2 Very High Flow - High Performance Pneumatic Fail in case of lost of power Fail safe Fail freeze(a) Housing Aluminum......1 Aluminum Ex d(a)....... Mounting For direct mountingT For VDI/VDE 3847(a)..... For remote mounting of positioner with side mounting potentiometer unitV For remote mounting of positioner with top mounting potentiometer unitW For remote mounting of positioner w/o potentiometer unit (order pot. separately) .. Y Pneumatic Connection 1/4 NPTA 1/4 NPT with tapped exhaust ... (a)..... Gauges Without gauge0 With 3 standard gauges for double acting.....(c)......3 With 3 Nickel plated gauges connection for double acting.......(c)4 **Electrical Connection** (continued on next page)

MODEL CODES SRD998 (continued)

Electrical Certification		
without certification		
ATEX / IEC Ex: II 2G Ex ia IIC T4/T6 Gb, II 1		
ATEX / IEC Ex: II 2G Ex ib IIC T4/T6 Gb, II 2		
ATEX / IEC Ex: II 3G Ex ic IIC T4/T6 Gc, II 3		
INMETRO: Ex ia IIC T4/T6 Gb, Ex ia IIIC T1		
INMETRO: Ex ib IIC T4/T6 Gb, Ex ib IIIC T1		
INMETRO: Ex ic IIC T4/T6 Gc, Ex ic IIIC T10		
NEPSI: Ex ia IIC T4/T6 Ga, Ex ia D20 T100	Da, IP66	N1
NEPSI: Ex ib IIC T4/T6 Gb, Ex ib D21 T100	Db, IP66	N2
NEPSI: Ex ic IIC T4/T6 Gc, Ex ic D22 T100 I	Dc, IP66	N3
FM certification IS	(a)	F1
FM certification IS	(a)	F2
FM certification IS	(a)	F3
CSA certification IS	(a)	
CSA certification IS		
CSA certification IS		
EAC: 1 Ex ia IIC T4/T6 Gb X, Ex ia IIIC T100)℃ Da	G1
EAC: 1 Ex ib IIC T4/T6 Gb X, Ex ib IIIC T100		
EAC: 2 Ex ic IIC T4/T6 Gc X, Ex ic IIIC T100		
KOSHA certification IS		
KOSHA certification IS	\ /	
KOSHA certification IS	\ /	
TIIS certification IS		
TIIS certification IS		
TIIS certification IS		
CNS certification IS ¹⁾	(a)	
PESO certification IS ²⁾		
r Loo certification to		
Ontions		
Options	and of air augusts (a)	_
Positioner free of conner and its alleve	ead of all supply(a)	
Positioner suitable for use of natural gas inst Positioner free of copper and its alloys Approved for SIL2 / SIL3 application	(a)	
Approved for SILZ / SIL3 application	(a)	
Stainless Steel Label, fixed with wire		
Positioner with ECEP	(a)	

⁽a) Not released
(b) Only to be ordered with single acting model code Version B
(c) Only to be ordered with double acting model code Version C
1) The SRD998 has the CNS certificate for usage in Taiwan
2) The SRD998 has the PESO certificate for usage in India



MODEL CODES Accessories

230916

Accessories for SRD998
Filter RegulatorsFilter Regulator for −30 °C to 70 °C.FRS02Stainless Steel (316) Filter RegulatorFRS03High Flow Filter Regulator 1/2 inch / AluminumFRS04High Flow Filter Regulator 1/2 inch / Stainless Steel.FRS05Mounting Bracket for FRS02 or FRS03EBZG-FR1Orientable Mounting Bracket for FRS02 or FRS03EBZG-FR2Nipple for direct mounting Filter regulator 1/4 NPT both sidesVG-91Mounting Bracket for FRS04EBZG-FR4Mounting Bracket for FRS05EBZG-FR5Nipple 1/2 NPT (FRS04/05 side) to 1/4 NPT (SRD998 side) for direct pipingVG-93
Communication / Modem / DTM HART USB Modem (made by Ifak) with ATEX IS Certification MOD900 DTM for SRD Series for HART / FF / Profibus VALCARE Service Modem EDC90
Booster Relay (in case of double acting, qty. shall be 2 pieces) Remote version for any positioner
Lock-in Relays(a)LIR01Lock In Relay, Single Acting, Aluminum Casing(a)LIR02Lock In Relay, Double Acting, Aluminum Casing(a)LIR02Lock In Relay, Single Acting, SST 316L Casing(a)LIR03Lock In Relay, Double Acting, SST 316L Casing(a)LIR04
Limit switch Mechanical Limit Switch weatherproof and plastic housing (TE Sensors XCKN2118P20)
Cable GlandCable Gland, M20x1.5 Plastics, Color Gray/BlackBUSG-K6Cable Gland, M20x1.5 Plastics, Color BlueBUSG-K7Cable Gland, M20x1.5 Plastics, Color WhiteBUSG-K9Cable Gland, M20x1.5 Stainless SteelBUSG-S6
Adapter Adapter (Brass With Nickel Coating) M20 x 1.5 To 1/2 - 14 NPT (Internal Thread)

⁽a) Not released

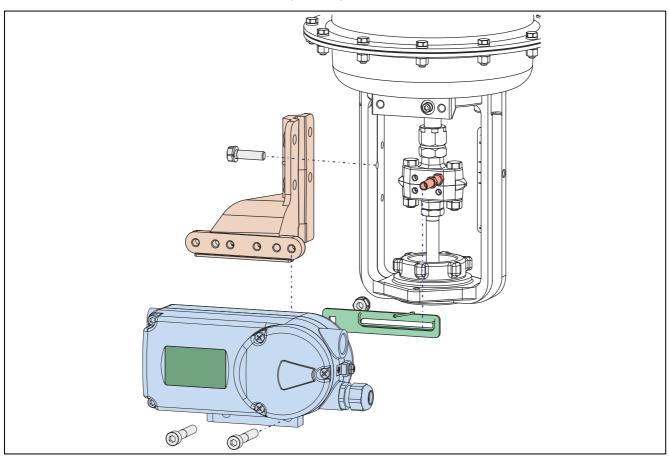
MODEL CODES Accessories

080915

Accessories for SRD998	
Attachment Kits E	BZG
For diaphragm actuators with casting yoke acc. NAMUR (incl. standard Couple lever)	H
For diaphragm actuators with pillar yoke acc. NAMUR (incl. standard Couple lever)	
For FoxTop / FoxPak	
For mounting to rotary actuators acc. VDI/VDE 3845 (without bracket)	
Brackets VDI/VDE 3845 (A = 80 mm / 3.15 in; B = 20 mm / 0.79 in)	
Brackets VDI/VDE 3845 (A = 80 mm / 3.15 in; B = 30 mm / 1.18 in)	
Brackets VDI/VDE 3845 (A = 130 mm / 5.12 in; B = 50 mm / 1.97 in)	C3
Brackets VDI/VDE 3845 (A = 130 mm / 5.12 in; B = 30 mm / 1.18 in)	C4
Universal Brackets VDI/VDE 3845 (A = 80 or 130 mm; B=20 or 30 or 50 mm)	C5
Couple Lever E	BZG
Standard (stroke max. 80 mm)	A
Extended (stroke max. 260 mm)	A1
Reduced (stroke < 8 mm)	
Fold feedback lever (stroke 8 to 70 mm)	
Short stroke (stroke 8 to 35 mm)	
Couple Lever Folded (stroke special)	
Extended (stroke max. 120 mm)	В
	5 1/2
	RXG
Carrier bolt extra short 23 mm	
Adjustable carrier bolt 20 to 37 mm	
Carrier bolt 47 mm	
Carrier bolt 57 mm	
Carrier bolt 65 mm	
Adjustable carrier bolt with fixing system for stem diameter up to 21 mm	
Adjustable carrier bolt with fixing system for stem diameter up to 34 mm	
Carrier Bolt 80 mm	
Adjustable carrier bolt for thread 3/8"	
Adjustable carrier bolt for thread 5/16"	-K
Extension for carrier bolt	
Adjustable carrier bolt with fixing system centered for stem diameter up to 64 mm	
Adjustable carrier bolt with fixing system centered for stem diameter up to 21 mm	
Adjustable carrier bolt with fixing system centered with extension up to 80 mm for stem diameter up to 21 mm	
Aujustable barrier bolt with iking system bentered with extension up to bo mill for stem diameter up to 21 mill	42

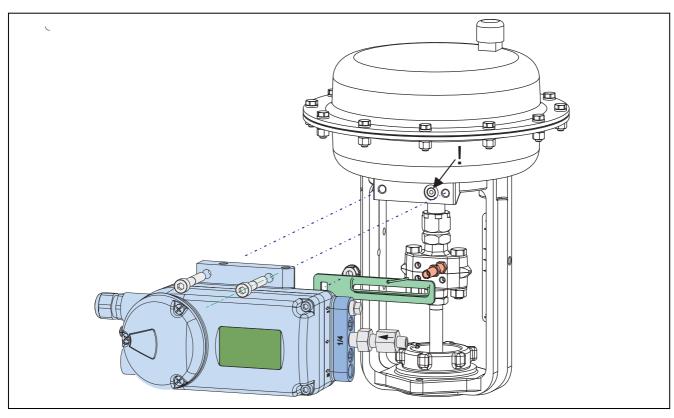
MOUNTING TO LINEAR ACTUATORS

Attachment to stroke actuators acc. to IEC 534-6 (NAMUR), left hand



MOUNTING TO LINEAR ACTUATORS

Direct attachment to stroke actuators

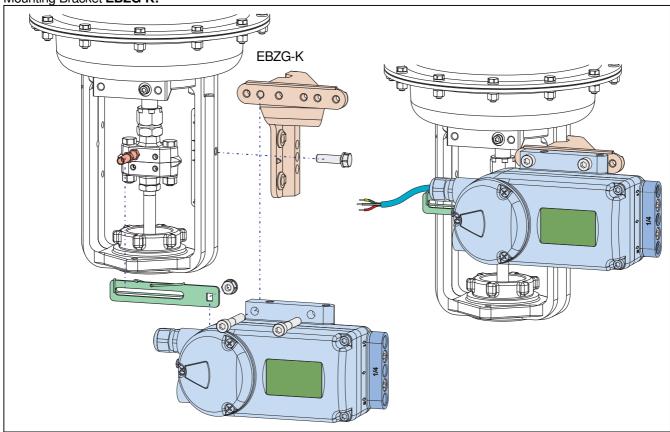


SRD998 MOUNTING Page 19

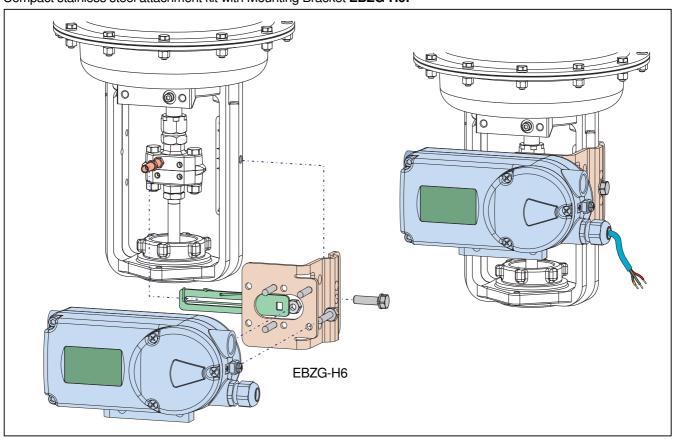
MOUNTING TO LINEAR ACTUATORS

Attachment to stroke actuators acc. to IEC 534-6 (NAMUR), right hand,

Mounting Bracket EBZG-K:

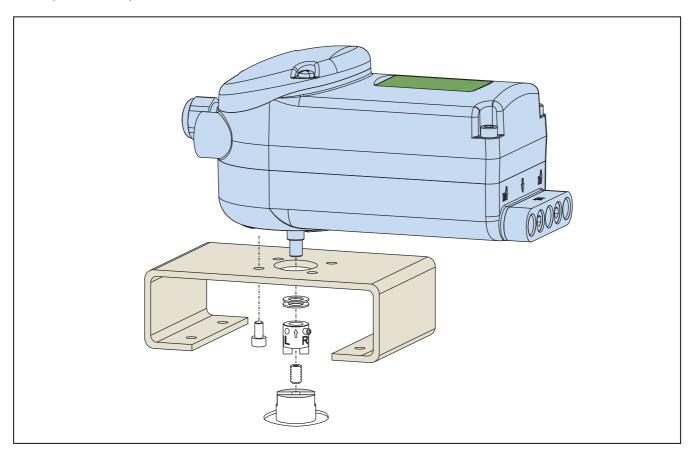


Compact stainless steel attachment kit with Mounting Bracket EBZG-H6:

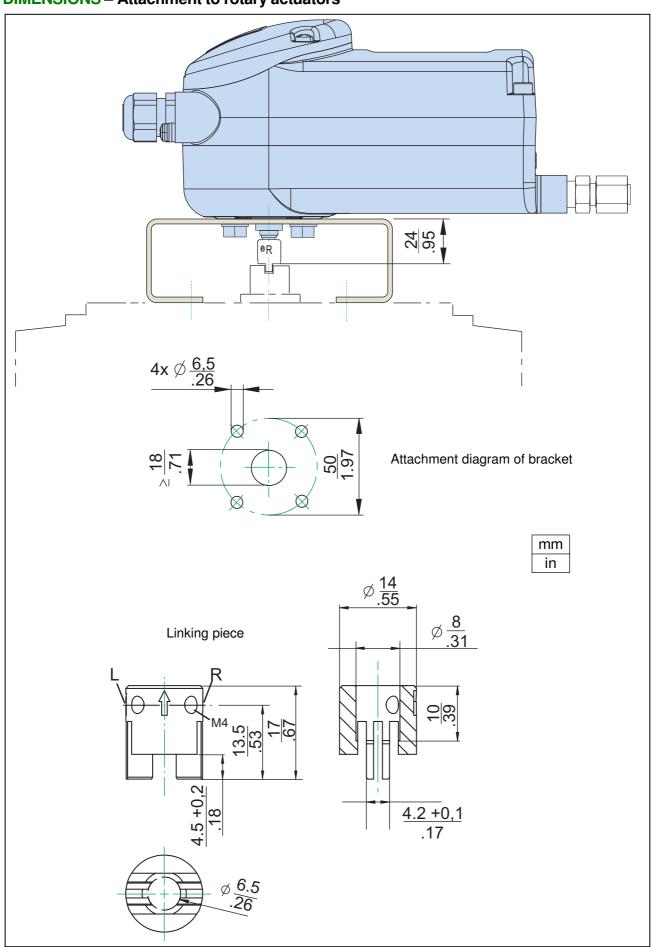


MOUNTING TO ROTARY ACTUATORS

Delivery of bracket by manufacturer of actuator



DIMENSIONS – Attachment to rotary actuators



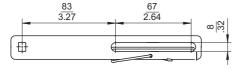
DIMENSIONS

Components of Attachment kits (samples)

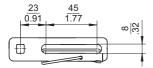
Feedback lever Code EBZG-A for 8 to 70 mm travel



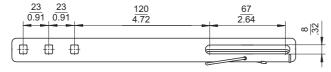
Feedback lever Code EBZG-B for 60 to 120 mm travel



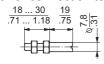
Feedback lever FlowPak/FlowTop in Code EBZG-E

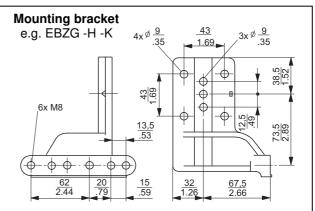


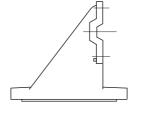
Feedback lever Code EBZG-A1 for 100 to 260 mm travel

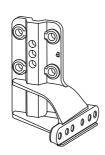


Carrier bolt for connection to valve stem



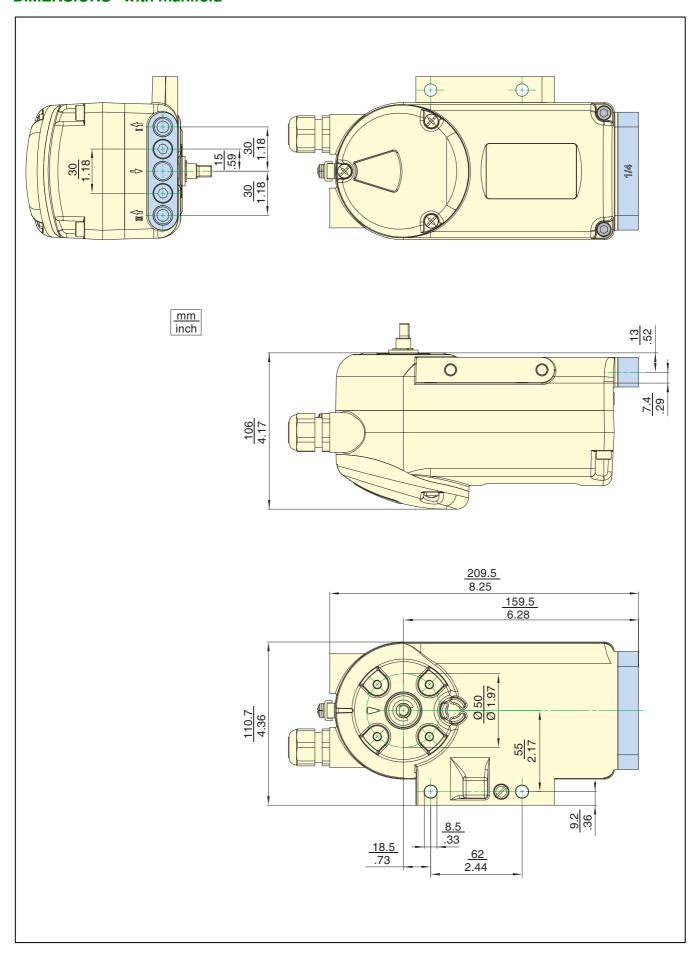




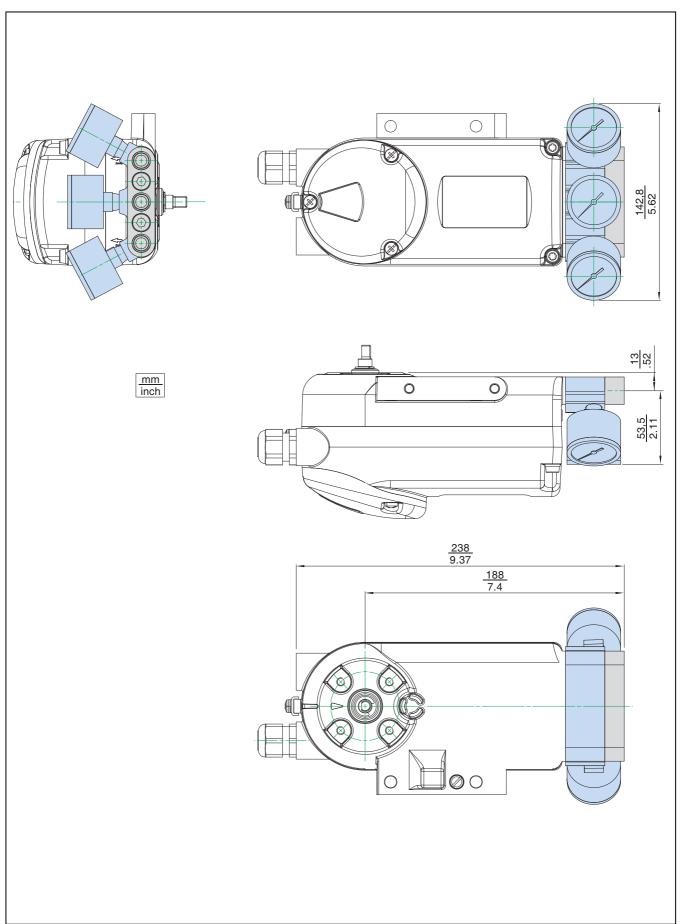


mm in SRD98 DIMENSIONS Page

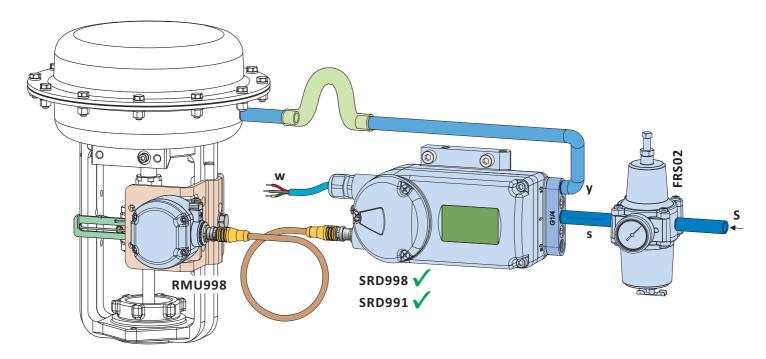
DIMENSIONS with manifold



DIMENSIONS with gauges and manifold

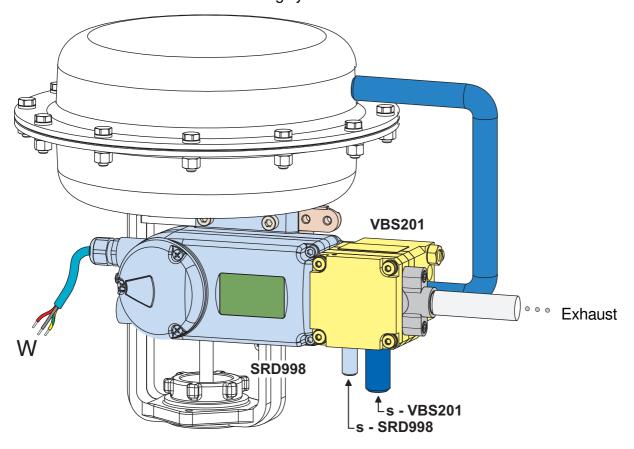


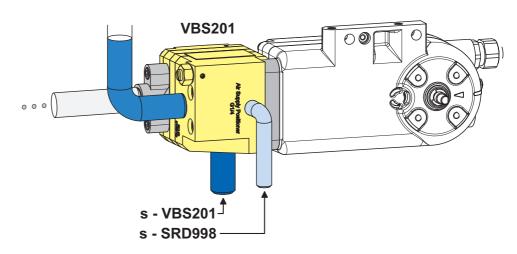
TYPICAL MOUNTING SRD998 with Remote Mounting Unit RMU998-V



(Coming soon)

TYPICAL MOUNTING SRD998 with Booster VBS201, directly flanged to SRD998, with connection to an Exhaust collecting system





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