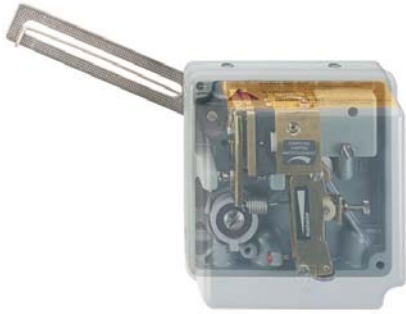


SRP981 Pneumatic Positioner



The SRP981 Positioner is designed to control pneumatic valve actuators with pneumatic control signals.

It is used to reduce the adverse effects of valve friction, for higher thrust and shorter positioning time.

It offers an easy adjustment by two mechanical screws.

Input

Signal range 0.2 to 1 bar (3 to 15 psig)
or split range down to
 Δw 0.2 bar (3 psi)

Response characteristic

Amplification adjustable
Sensitivity < 0.1 % F.S.
Non-linearity
(terminal based adjustment) < 1.0 % F.S.
Hysteresis < 0.3 % F.S.
Supply air dependency < 0.3 % / 0.1 bar (1.5 psi)
Temperature effect < 0.5 % / 10 K
Mechanical vibration
10 - 60 Hz up to 0.14 mm,
60 - 500 Hz up to 2 g < 0.25 % of travel span

Supply

Supply air pressure 1.4 to 6 bar (20 to 90 psig)
Supply air free of oil, dust, water
according to IEC 654-2

Connection

Pneumatic Female threads G 1/8 acc.
to ISO 228

Materials

Base plate Aluminum (Alloy No. 230)
finished with DD-varnish

All moving parts of
feedback system 1.4305 / 1.4571
Mounting bracket 1.4301

- Independent adjustment of stroke range and zero
- Adjustable amplification and damping
- Split range up to 4-fold possible
- Input Signal from 0.2 ... 1 bar (3 ... 15 psig)
- Supply pressure up to 6 bar (90 psig)
- Single or double acting
- Low vibration effect in all directions
- Mounting on linear actuators according to NAMUR: IEC 534 Part 6
Stroke range 8 ... 100 mm (0.3 ... 4 in)
(larger strokes on request)
- Mounting on rotary actuators acc. to VDI/VDE 3845 for rotation angles up to 120°
 - Angular range
linear 30 ° ... 120 °
equal percentage 90 °; linear from 70 °
- Ambient temperature -40 ... 80°C (-40 ... 176°F)
- Protection class IP54 or IP65
- Explosion protection:
II 2 G EEx c (constructive safety) + Accessories in II 2 G EEx i according to ATEX
- Certificate No. 90/20226 (E2) Lloyd's Register of Shipping for use on vessels
- Additional Inputs / outputs (optional):
 - Position feedback 4 to 20 mA
 - Built-in independent inductive limit switches (2-/3-wire) or micro switches
- Accessories
 - Booster relay to minimize stroke time
 - Gauge Manifold
- Gauges (optional)
 - External gauge manifolds
 - Integrated gauges
Indicating ranges:
Input 0 to 1.6 bar (0 to 23 psig)
Output 0 to 10 bar (0 to 150 psig)

For complete specification, refer to Product Specification Sheet PSS EVE0101 A-(en)

Model Codes

Pneumatic Positioner	SRP981									011004				
Version														
Single Acting										-B				
Double Acting										-C				
Input														
Signal Range 0.2 to 1 bar/3 to 15 psi/ 20 - 100 kPa;														
Split-Range Up To 4-Fold Possible, Must Be Specified										-I				
Mode of Action														
Increasing Input Increases Output										D				
Increasing Input Decreases Output										R				
Gauges														
Without Gauges										L				
Two Built-In Gauges (bar/psi) (a)										M				
Two Built-In Gauges (kPa/psi) (a)										N				
Built-In Limit Switch/Position Transmitter														
Without										S				
Inductive Limit Switch Three-Wire Technique, Without Explosion Protection (b)										R				
Inductive Limit Switch (Standard Version) with Expl. Prot. II 2 G EEx ia IIC T6 acc. to ATEX(b)										T				
Inductive Limit Switch (Security Version) with Expl. Prot. II 2 G EEx ia IIC T6 acc. to ATEX(b)										U				
Two Micro Switches, Without Explosion Protection (b)										V				
Position Transmitter 4-20 mA, with Expl. Prot. II 2 G EEx ia IIC T6 acc. to ATEX (b)										W				
Cable Entry														
Without Cable Gland										1				
M20 x 1.5 With One Plastic Cable Gland, Color Gray (c)										7				
Attachment Kit														
Order as Auxiliary										N				
Manifold														
Order as Auxiliary										A				
Options														
Amplifier Free Of Nonferrous Metals (a)										-C				
Manual Bypass Switch (a)										-T				
Protection Class IP65 (b)										-F				
Assembled Free Of Oil And Grease / Designed for Aux. Energy Oxygen										-S				
Tag No. Labeling														
Stamped With Weather Resistant Color										-G				
Stainless Steel Label Fixed With Wire										-L				
<p>(a) Only available with Version -B (b) Not available with Gauge Code M or N (c) Not available with Built-In Limit Switch / Position Transmitter Code S</p>														
<table border="1" style="width: 100%;"> <tr> <td style="width: 20%;">Auxiliary</td> <td>see EVE9902</td> </tr> <tr> <td>Fittings</td> <td>see EOO9001</td> </tr> </table>											Auxiliary	see EVE9902	Fittings	see EOO9001
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