



CONTROL VALVES POSITIONER



APP 1000 SERIES
APP 1200 SERIES



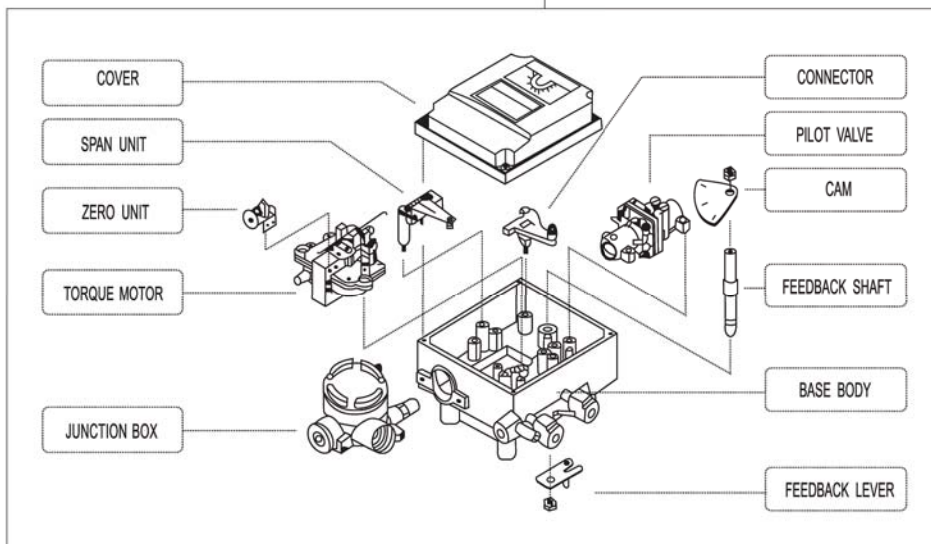
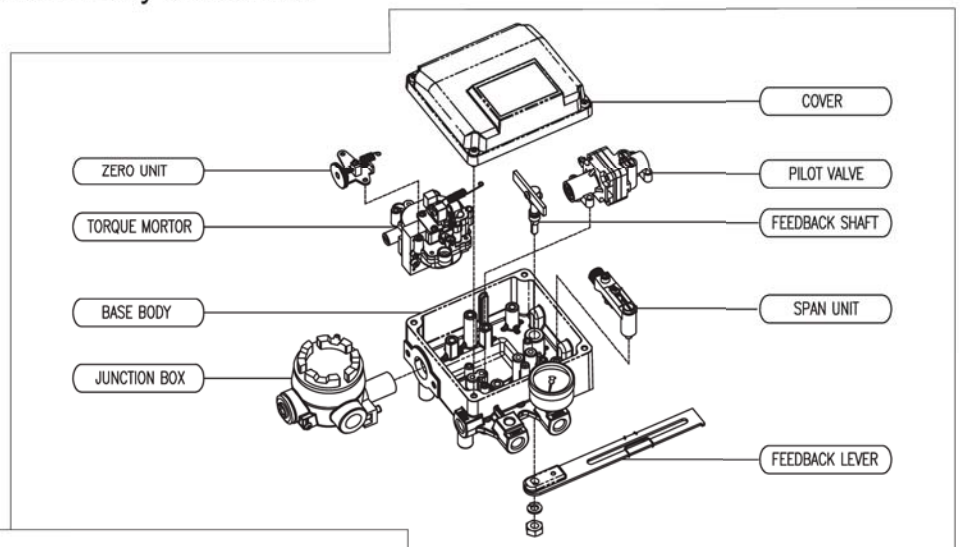
Design and Features

We have product two types of APP1000 series E-P valve positioner. The Linear one is used for pneumatic linear valve actuator. The rotary one is used for rotary pneumatic actuator. They control valve stroke accurately through compressed air, according to input signal of 4-20mA being input from electrical controller control system.

In addition, the internal position transmitter and/or limit switches are easily to be assembled inside of the positioner in order to senses mechanical position change of stem being on the valve or similar device and converses to current signal of DC 4~20mA outputs for computers or Industry Processing Control System. It is flame proof type attached internally.

The APP-1000 series E-P valve positioner is provided with following features:

- There is no resonance in the range of 5~200Hz.
- Performing ½ Split Control without any other substitutes.
- Easy to adjust zero and span.
- Easy to convert from Reverse Action to Direct Action or vice versa.
- Easy to convert from Spring Return to Double Action actuator or vice versa.
- Easy Feedback Connection.
- Fast and accurate response.
- Low air consumption.
- Easy to protect from hunting effect by using output orifice in small size of actuator.
- Easy to install air tubing connection in any direction.



Specification

Model	APP-1000
Input signal	4-20mA DC
Impedance	250±15Ω
Supply pressure	1.4~7kgf/cm ² (20~100psi)
Stroke	Rotary: 0°-90° Linear: 10-150mm
Air connection	PT(NPT)1/4
Gauge connection	PT(NPT)1/8
Conduit	1/2PF, 1/2NPT
Explosion Proof	ExdmlIB(C)T6, ExialIBT6, Non-Explosion
Protection	IP66
Ambient temperature	-20°C~70°C
Linearity	±1%F.S.
Hysteresis	1%F.S.
Sensitivity	±0.2%F.S.(Single) ±0.5%F.S.(Double)
Repeatability	±0.5%F.S.
Air consumption	3LPM(Sup=1.4kgf/cm ² , 20psi)
Flow capacity	80LPM(Sup=1.4kgf/cm ² , 20psi)
Material	Aluminum alloy
weight	2.7kg(6.1lb)



positioner with limit switch

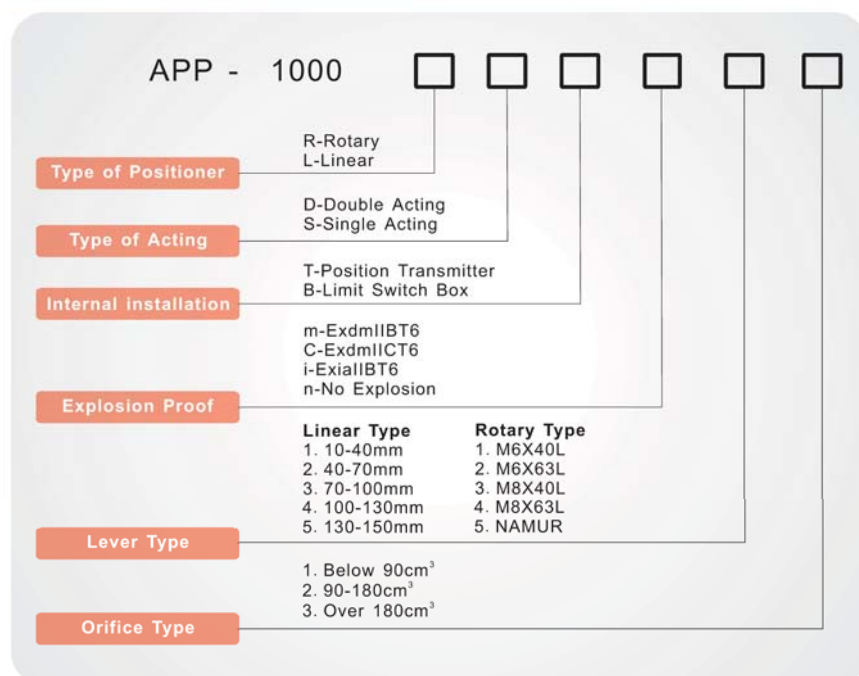


PT unit



positioner with position transmitter

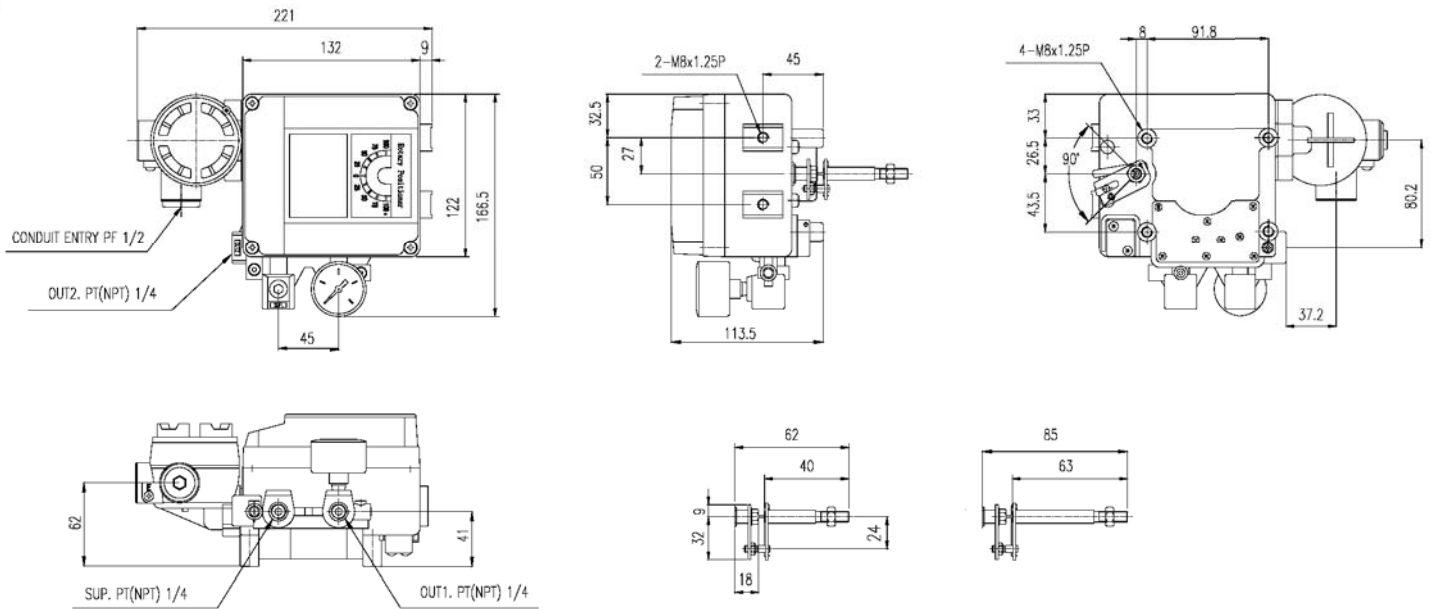
Ordering Symbols and Specifications



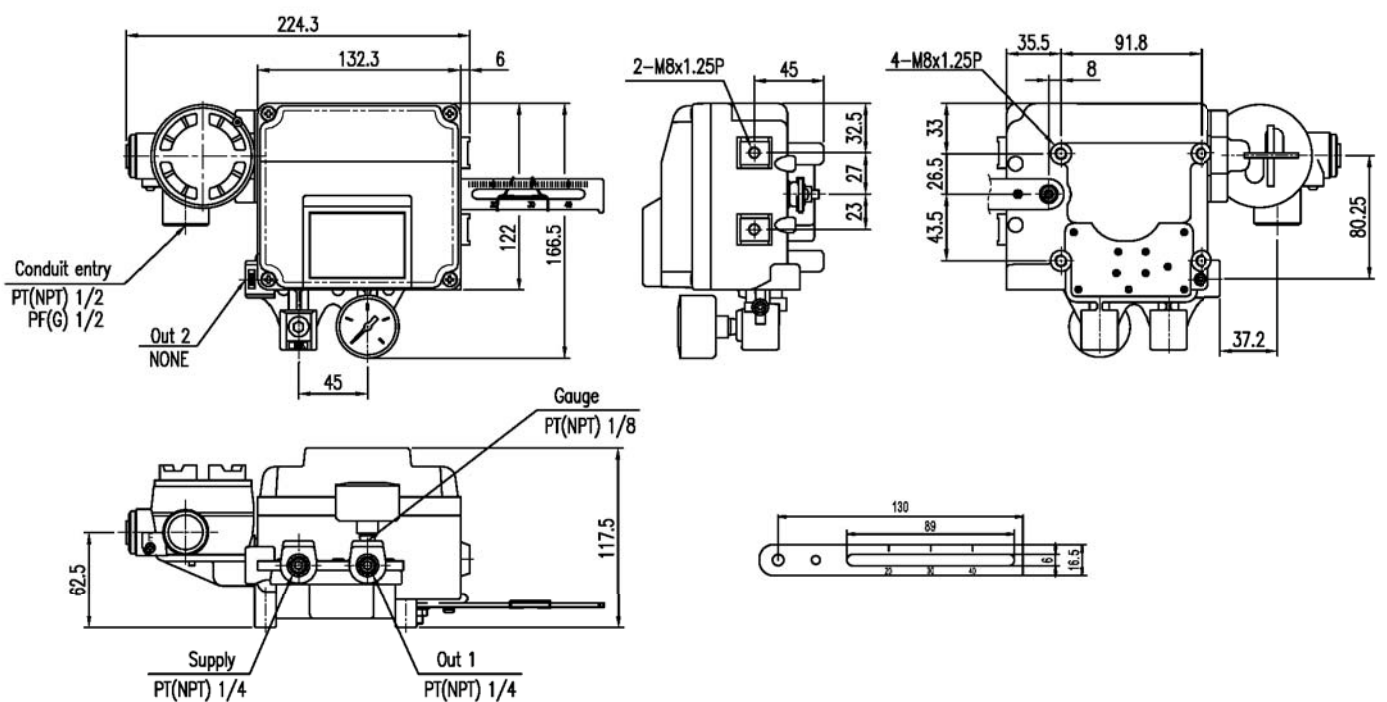
Example: APP-1000RDTn13

electro-pneumatic valve positioner is a rotary and double acting type, it is no explosion proof and within position transmitter. The lever type of positioner is M6X40L and the orifice type is over 180cm³.

Rotary type



Linear type



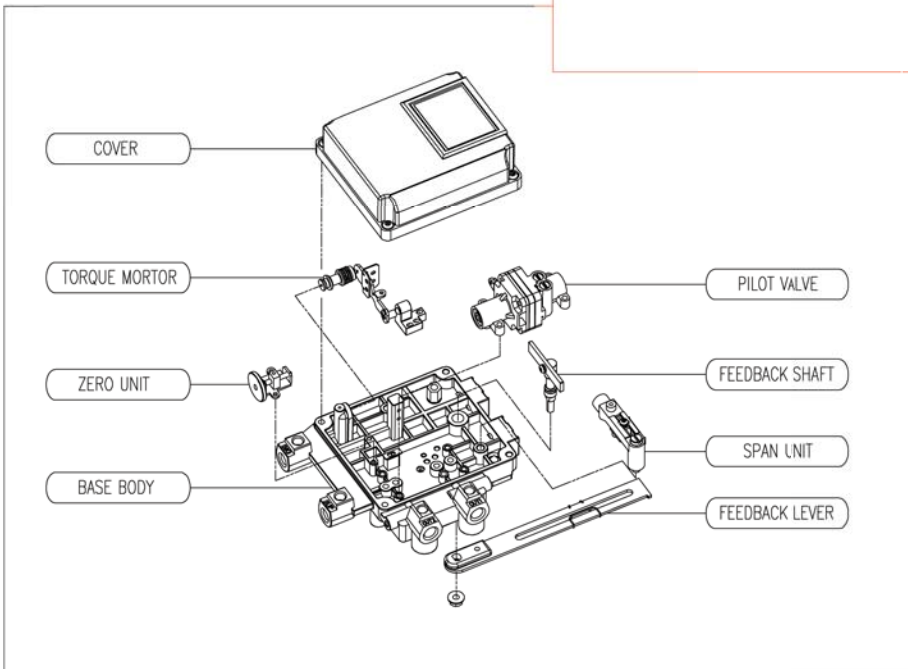
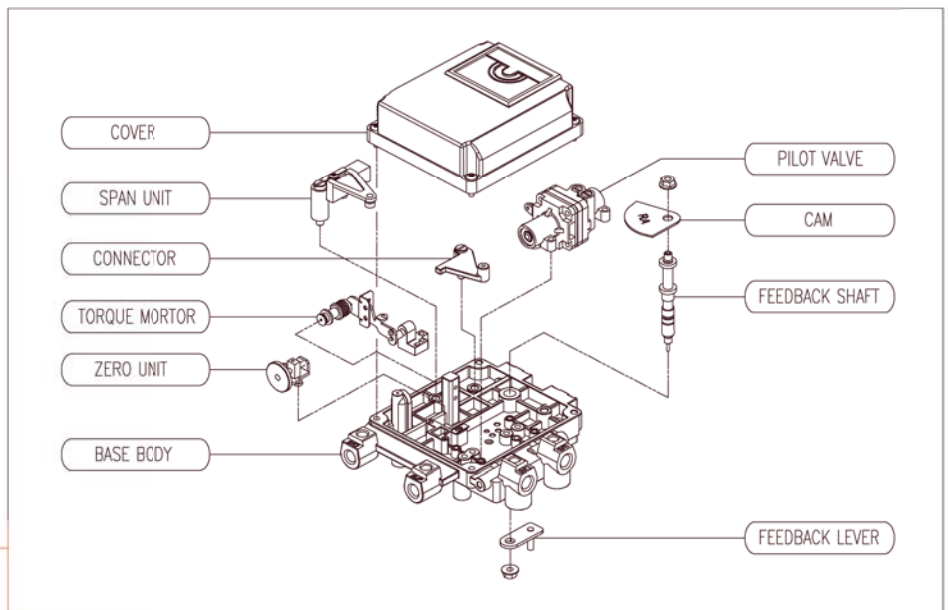
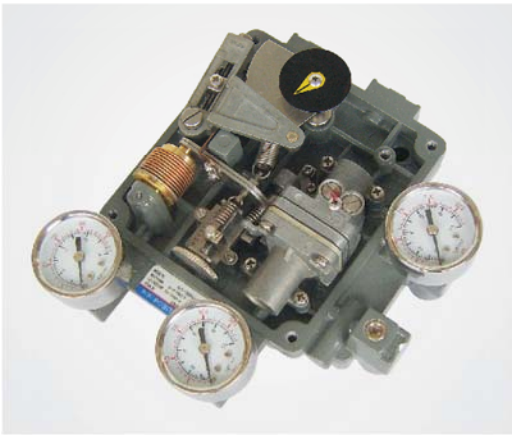
Pneumatic-Pneumatic Positioner

Design and Features

we have produced two types of APP1200 series P-P valve positioner. The Linear one is used for pneumatic linear valve actuator. The rotary one is used for rotary pneumatic actuator. They control valve stroke accurately, through pressure air, according to input air signal of 3-15psi being input from electrical-pneumatic converter.

The APP-1200 series P-P valve positioner is provided with following features:

1. There is no resonance in the range of 5~200Hz.
2. Performing ½ Split Control without any other substitutes.
3. Easy to adjust zero and span.
4. Easy to convert from Reverse Action to Direct Action or vice versa.
5. Easy to convert from Spring Return to Double Action actuator or vice versa.
6. Fast and accurate response.
7. Low air consumption.
8. Easy to protect from hunting effect by using output orifice in small size of actuator.
9. Easy to install air tubing connection in any direction.



Specification



Model	APP-1200L	APP-1200R
Input signal	0.2~1.0kgf/cm ² (3~15psi)	
Stroke	10~150mm	0~90°
Supply pressure	1.4~7.0kgf/cm ² (20~100psi)	
Air connection	PT(NPT)1/4	
Gauge connection	PT(NPT)1/8	
Protection	IP66	
Ambient temperature	-20°C~70°C	
Linearity	±1%F.S.	±2%F.S.
Hysteresis	±1%F.S.	
Sensitivity	±0.2%F.S.	±0.5%F.S.
Repeatability	±0.5%F.S.	
Air consumption	3LPM(Sup=1.4kgf/cm ² ,20psi)	
Flow capacity	80LPM(Sup=1.4kgf/cm ² ,20psi)	
Housing Material	Aluminum alloy	
weight	1.7kg	

Ordering Symbols and Specifications

APP - 1200



Type of Positioner

R-Rotary
L-Linear

Type of Acting

D-Double Acting
S-Single Acting

Internal installation

T-Position Transmitter
B-Limit Switch Box

Explosion Proof

n-No Explosion

Lever Type

Linear Type

1. 10-40mm
2. 40-70mm
3. 70-100mm
4. 100-130mm
5. 130-150mm

Rotary Type

1. M6X40L
2. M6X63L
3. M8X40L
4. M8X63L
5. NAMUR

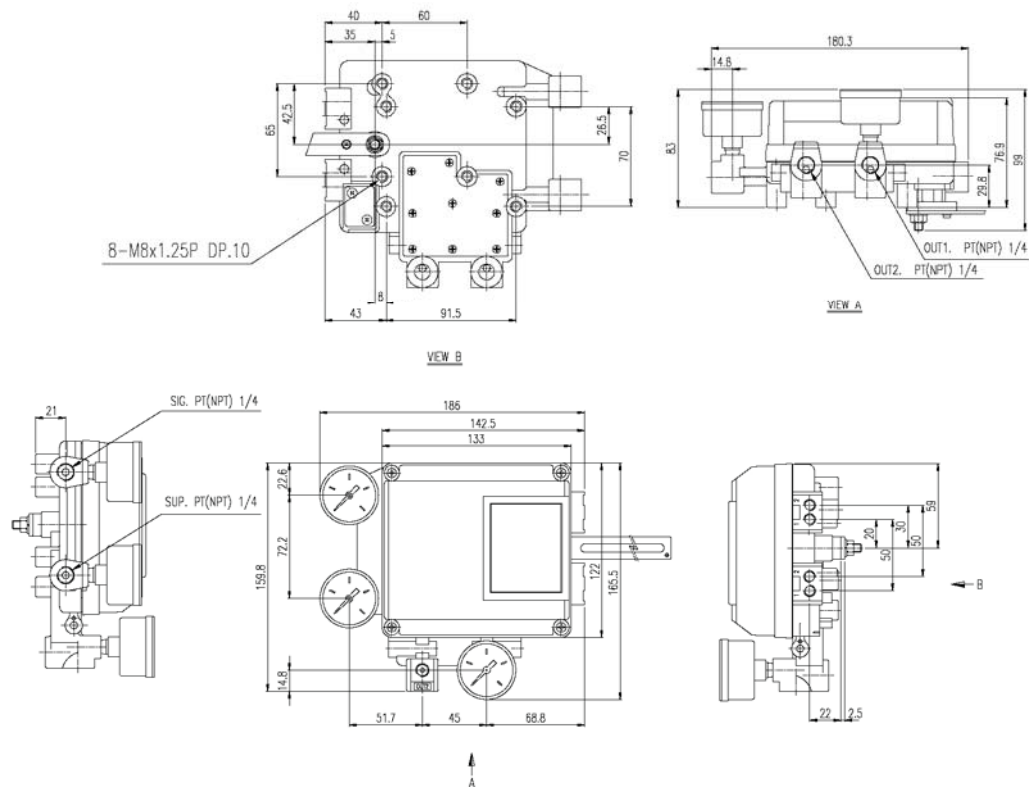
Orifice Type

1. Below 90cm³
2. 90-180cm³
3. Over 180cm³

Example: APP-1200LSn13

pneumatic-pneumatic valve positioner is a linear and single acting type, it is no explosion proof. The lever type of positioner is 10-40mm and the orifice type is over 180cm³.

Linear type



Rotary type

