

Pneumatic Valve Positioner

For Small Actuators

Model VPE04/05

OVERVIEW

The Pneumatic Valve Positioners (VPE) are designed specifically for small actuators for the CV3000 Alphaplus Series valves, the CV3000 Series valves, NEW10 Series valves, and Small Flow valves to improve characteristics and response of control valves as well as to minimize the effect of changes in fluid pressures.

FEATURES

- 1) The VPE is compact and can be readily installed in small actuators.
- 2) All of the major components are housed in the casing and purged with bleeding air, thereby preventing corrosion caused by adverse atmosphere.
- 3) The VPE provides an air booster mechanism. Although compact, the VPE allows a rapid response speed which is comparable with that of a large positioner.
- 4) The VPE can be effectively used when the controller signal span and the actuator spring span do not mutually conform, so that the valve position can be controlled in direct conformity with the controller signal.

SPECIFICATIONS

Model

VPE04 : Supply air pressure 140 to 190 kPa {1.4 to 1.9 kgf/cm ² }	(1)
VPE05 : Supply air pressure 200 to 390 kPa {2.0 to 4.0 kgf/cm ² }	

	Code
(1) Full range 20 to 100 kPa (Standard)	1
Input signal Half range 20 to 60 kPa (Low range)	2
Half range 60 to 100 kPa (High range)	3

Output characteristics:

Linear

Supply air pressure:

140 to 390 kPa {1.4 to 4.0 kgf/cm²}

Air consumption:

9 Nl/min. (normal state, supply air pressure 350 kPa {3.5 kgf/cm²})

Maximum capacity of air flow:

88 Nl/min. (supply air pressure 350 kPa {3.5 kgf/cm²})



Air connection:

Rc 1/4 internal thread

Ambient temperature:

-20 to +70 °C

Ambient humidity:

10 to 90% PH

Performance:

Accuracy ; $\pm 3\%$ F.S.
Dead band ; 0.3% F.S.

Operating speed:

12 mm/s maximum

Additional specifications (by special order):

Corrosion-resistant and silver finish (Semi-standard specification Y138):

- Corrosion-resistant (Acryl baking) finish (Y138A) ; Resistance for corrosive gases.
- Corrosion-proof (Epoxy baking) finish (Y138B) ; Resistance for corrosive liquids.
- Silver-normal (Acryl baking) finish (Y138C) ; Protection for temperature rise of device caused by direct sun light, radiation heat, etc.
- Silver-corrosion-resistant (Acryl baking) finish (Y138D) ; Protection for above-mentioned temperature rise and resistance for corrosive gases.

Note) Silver finish is not applicable for alkaline gases.

Weight:

1.1 kg

Housing material:

Body : Aluminum alloy

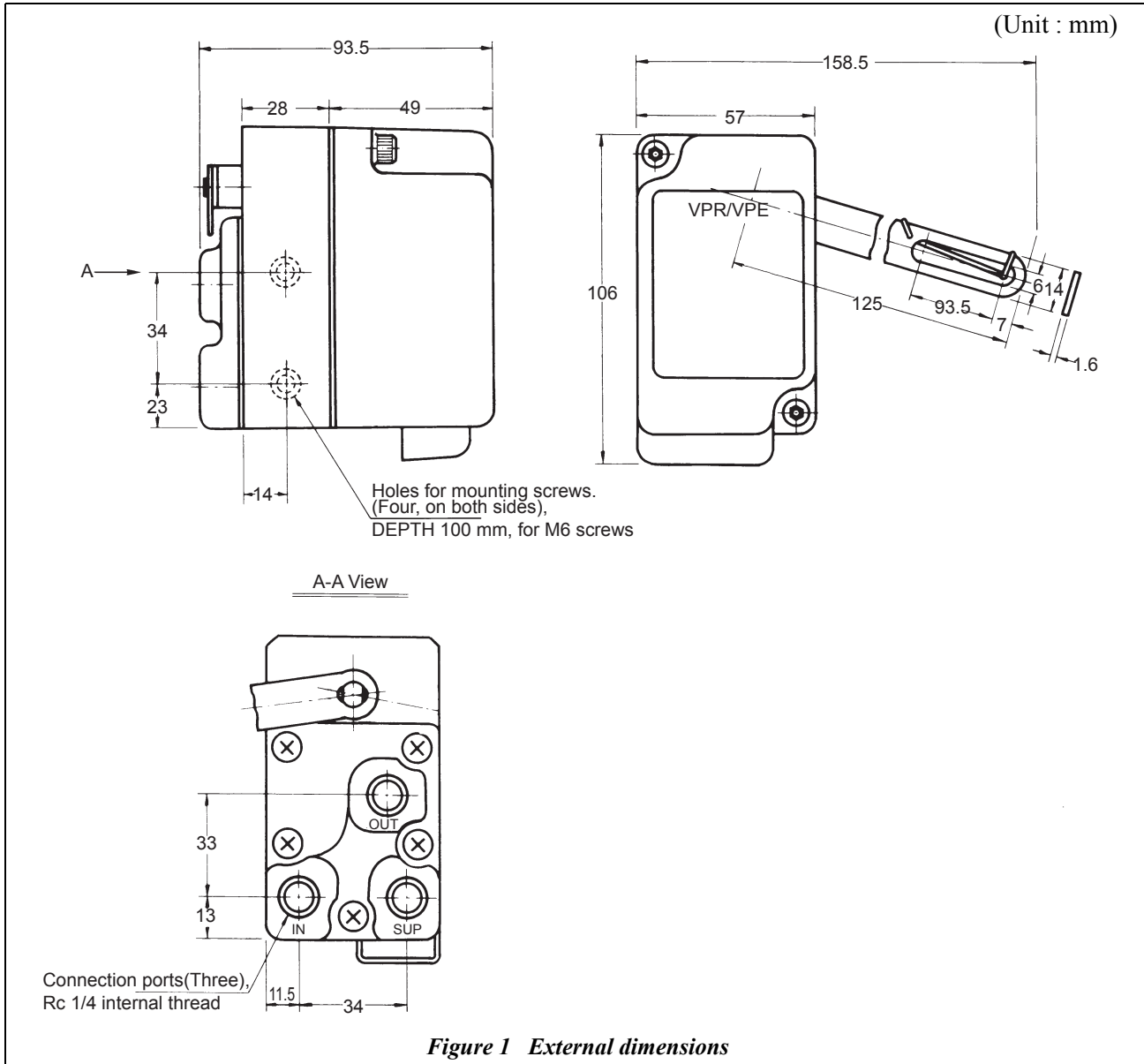
Cover : Polyester resin reinforced with glass

Finish:

Acryl baking finish (For corrosion-resistant and silver finish, refer to the optional specification.)

Color of finish:

Dark beige (Munsell 10YR 4.7/0.5)



Ordering information

When ordering, please specify;

- | | |
|------------------------|--------------------------|
| 1) Model number : VPE | 4) Actuator model No. |
| 2) Input range | 5) Output characteristic |
| 3) Supply air pressure | 6) Option |

Note

Please, read 'Terms and Conditions' from following URL before the order and use.

<http://www.azbil.com/products/bi/order.html>

Specifications are subject to change without notice.

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