OVERVIEW

Model VPP08 valve positioner is designed to operate piston cylinder that require higher supply air pressure than diaphragm actuator. The positioner is a force-balance servo-mechanism to position valve opening correctly and rapidly by bleeding or feeding air of a pneumatic-operated single acting actuator in accordance with a pneumatic signal from a controller.

FEATURES

1) Compact, rigid construction makes it easy for adjustment and maintenance.
2) Changes in characterisitcs can easily be made by changing cams.
3) Anti-corrosive materials are used for components, thus is suitable for sevice in bad operating atmosphere.

SPECIFICATIONS

Model

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<th>Code</th>
<th>Input signal</th>
<th>Full range 20 to 100 kPa (Standard)</th>
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<td>Half range 20 to 60 kPa (Low range)</td>
<td>2</td>
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<tr>
<td>3</td>
<td>Half range 60 to 100 kPa (High range)</td>
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Output characteristics:
Linear, Equal percentage and Quick opening.

Supply air pressure:
350 to 690 kPa {3.6 to 7.0 kgf/cm²}

Air consumption:
20 Nl/min. (normal state, supply air pressure 490 kPa {5.0 kgf/cm²})

Maximum capacity of air flow:
250 Nl/min. (supply air pressure 490 kPa {5.0 kgf/cm²})

Pneumatic tubing connection:
Rc 1/4

Ambient temperature:
-30 to +80 °C

Performance:
Accuracy ; ± 1% F.S.
Dead band ; 0.5% F.S.

Travel adjustable range:
14 to 100 mm

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:
3.5 kg

Housing material:
Aluminum alloy casting

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)
Cam characteristics:
Linear (cam 1, standard) and two other kinds. By selecting the other two cams, valve characteristics can be approximated as follows:

(1) For reverse acting valve
Cam 2
• Linear characteristic valve plug
  --> Quick opening characteristic
• Equal percentage characteristic valve plug
  --> Linear characteristic
Cam 3
• Linear characteristic valve plug
  --> Equal percentage characteristic
• Quick opening valve plug
  --> Linear characteristic

(2) For direct acting valve
The effect of cams 2 and 3 applied to direct action valves is reversed as compared with the case of reverse action valves.

Ordering information
When ordering, please specify:
1) Model number
2) Input range
3) Supply air pressure
4) Actuator model No.
5) Output characteristic
6) Option

[Unit : mm]
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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