

* Integrated speed control valve is available only for double acting type.

Switch specifications

| Descriptions | Proximity 2 wire | Proximity 3 wire |
| :--- | :---: | :---: |
|  | T2H $/ \mathrm{V}$ | T3H $/ \mathrm{V}$ |
| Applications | Programmable controller | Programmable controller, relay |
| Output method | - | NPN output |
| Power voltage | - | 10 to 28 VDC |
| Load voltage/current | 10 to 30 VDC, 5 to $20 \mathrm{~mA}($ Note 1$)$ | 30 VDC or less, 100 mA or less |
| Light | 1 LmA or less | LED (ON lighting) |
| Leakage current |  | $10 \mu \mathrm{~A}$ or less |

Note 1: Max. load current above: 20 mA at $25^{\circ} \mathrm{C}$. The current will be lower than 20 mA if ambient temperature around switch is higher than $25^{\circ} \mathrm{C}$. ( 5 to 10 mA with $60^{\circ} \mathrm{C}$ )

## How to order



## FH500 series

Internal structure and parts list

- Standard (double acting)/O (normally open) type Speed control valve


Spring of (44 is not contained in standard (double acting) type.

| No. | Parts name | Material | Remarks | No. | Parts name | Remarks |  |
| :---: | :--- | :--- | :--- | :---: | :--- | :--- | :--- |
| 1 | Cylinder guard | Acetar resin |  | 9 | Piston packing seal | Nitrile rubber |  |
| 2 | Body | Aluminum alloy | Labrication |  |  |  |  |
| 3 | aiston | Stainless steel |  | 10 | Rod packing seal | Nitrile rubber |  |
| 4 | Master key | Alloy steel | 11 | Hexagon socket head set screw | Stainless steel |  |  |
| 5 | Snap ring | Stainless steel |  |  |  |  |  |
| 6 | Fulcrum axis | Alloy steel | Heat treatment | 14 | Spring | Nickeling |  |
| 7 | Operation axis | Alloy steel | Heat treatment | 12 | Steel ball | Urethane rubber |  |
| 8 | Cylinder gasket | Nitrile rubber |  | 16 | Speed control valve assembly |  | Stainless steel |

## Gripping power performance data

Gripping power that functions to open and closed directions with jaw length $\ell$ of hand at supply pressure 0.15 to 0.7 MPa is shown.

- Open direction ( $\langle$ )---- (shown with broken line) - Closed direction ( - - (shown with continuous line)

(Note) Closed side gripping power of single acting type decreases 25 to $30 \%$ comparing to double acting type.
Grip performance data indicates the grip for one jaw. Since two jaws are used, double the grip in the graph when making a selection.



FH500 series
Feather hand (min-fulcrum hand)

Speed control valve (FH510-Z)


FH512-D/FH512-O





## FH500 series

| RRC |
| :---: |
| GRC |
| RV3* |
| NHS |
| HR |
| LN |
| FH100 |
| HAP |
| BSA2 |
| $\begin{aligned} & \text { BHA } \\ & \text { BHG } \end{aligned}$ |
| LHA |
| LHAG |
| HKP |
| $\begin{aligned} & \text { HLA/ } \\ & \text { HLB } \\ & \hline \text { HLAG/ } \\ & \text { HLBG } \end{aligned}$ |
| HEP |
| HCP |
| HMF |
| HMFB |
| HFP |
| HLC |
| HGP |
| FH500 |
| HBL |
| HDL |
| HMD |
| HJL |
| BHE |
| CKG |
| CK |
| CKA |
| CKS |
| CKF |
| CKJ |
| CKL2 |
| $\begin{aligned} & \text { CKL2 } \\ & -{ }_{-}-\mathrm{HC} \end{aligned}$ |
| CKH2 |
| CKLB2 |
| $\begin{aligned} & \text { NCK } \\ & \text { SCKFFK } \end{aligned}$ |
| FJ |
| FK |
| Ending |

Dimensions
CAD

- FH516-D/FH516-O
- Flow control valve (FH516-Z)


FH520-D/FH520-O

- Flow control valve (FH520-Z)


M5 (open port)

- With end mount


