# Actuator for flanged globe valve AVFF

**AVFF**

## Description

The AVFF actuator series has been designed to control the flanged globe valves of the VFF series and is available in ON-OFF, floating, proportional and Modbus RS485 (RTU) control versions. The 1500 N actuator is equipped with a high-efficiency brushless DC motor, while the 3000 N actuator is equipped with a bidirectional synchronous motor. Fast and easy assembly.
All AVFF actuators are fitted with a manual override for manual operation in the event of power failure.

## Technical specifications

| | |
|---|---|
| **Power supply** | see schedule |
| **Electrical connection** | screw terminal |
| **Torque** | see schedule |
| **Max. stroke** | see schedule |
| **Running time** | see schedule |
| **Materials** | ABS cover, self-extinguishing<br>aluminium bracket |
| **Protection degree** | IP54 |
| **Protection class** | III 24 V AC/DC, I 230 V AC, ±10% |
| **Working range °C** | -10...+55°C |
| **Storage temperature and humidity** | -15...+55°C, 1...95% RH, non-condensing |
| **Fluid temperature** | < 130°C |
| **Maintenance** | free |

| Model | Torque N | Action | Stroke mm | Power supply | Consump. VA | DN | Running time s/mm |
|---|---|---|---|---|---|---|---|
| **AVFF15**<br>**AVFF15B** | 1500 | on-off | 22 | 24 V AC/DC<br>230V AC | 12 | 50-80 | 1,5 or 3,8 |
| **AVFF15M**<br>**AVFF15BM** | 1500 | proportional | 22 | 24 V AC/DC<br>230V AC | 12 | 50-80 | 1,5 or 3,8 |
| **AVFF30**<br>**AVFF30B** | 3000 | on-off | 50 | 24 V AC/DC<br>230 V AC 50/60 Hz | 18 | 100-200 | 3,1 (50 Hz) |
| **AVFF30M**<br>**AVFF30BM** | 3000 | proportional | 50 | 24 V AC/DC<br>230 V AC 50/60 Hz | 20 | 100-200 | 3,1 (50 Hz) |

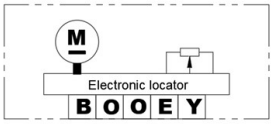
Suffix: **S** for 2x SPDT microswitches (excluding modulating version)

**MOD** Only for proportional models. Actuators with RS485 (RTU) control also include built-in analog control capability. The control mode, either Modbus RS485 RTU or analog, can be selected via RS485 (RTU) communication commands. When RS485 control is active, the analog input is disabled, while the analog output remains functional.

## Electrical wiring

### 1 - AVFF15M... proportional version

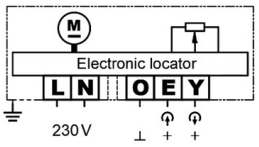
**AVFF15M**
(power supply 24 V AC/DC)




| | | |
|---|---|---|
| B | System potential 24 V | ∽ \| + |
| O | System neutral 0 V | ∽ \| + \| ⊥ |
| O | Signal neutral (-) | |
| E | Positioning signal | (+) |
| Y | Position feedback | (+) |

Wiring: max. 1.5 mm²

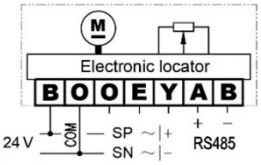
**AVFF15BM**
(power supply 230 V AC)




| | | |
|---|---|---|
| L | System potential 230 V | ∽ \| + |
| N | System neutral 0 V | ∽ \| - |
| O | Signal neutral (—) | ⊥ |
| E | Positioning signal (+) | |
| Y | Position feedback (+) | |

Wiring: max. 1.5 mm²

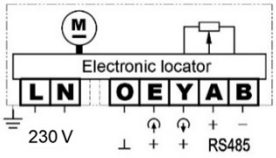
**AVFF15M/MOD, modbus RS485**
(power supply 24 V AC/DC)




| | | |
|---|---|---|
| B | System potential 24 V | ∽ \| + |
| O | System neutral 0 V | ∽ \| - \| ⊥ |
| O | Signal neutral (—) | |
| E | Positioning signal (+) | |
| Y | Position feedback (+) | |
| A | 485 Forward signal input (+) | |
| B | 485 Reverse signal input (—) | |

Wiring: max. 1.5 mm²

**AVFF15BM/MOD, modbus RS485**
(power supply 230 V AC)

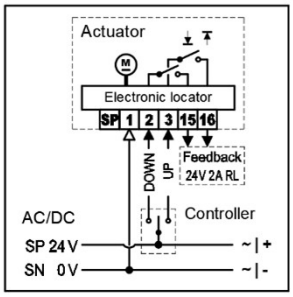



| | | |
|---|---|---|
| L | System potential 230 V | ∽ \| + |
| N | System neutral 0 V | ∽ \| - |
| O | Signal neutral (—) | ⊥ |
| E | Positioning signal (+) | |
| Y | Position feedback (+) | |
| A | 485 Forward signal input (+) | |
| B | 485 Reverse signal input (—) | |

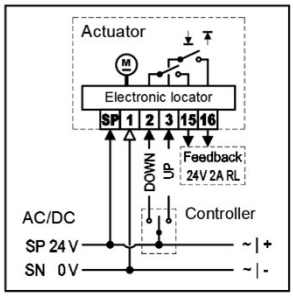
Wiring: max. 1.5 mm²

### 2 - AVFF15... on-off floating version

**AVFF15**
(power supply 24 V AC/DC)




Optional: Connected as 3 wire



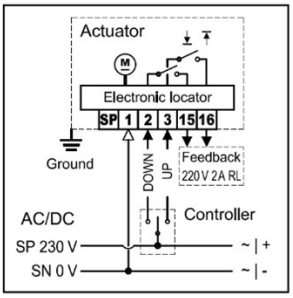

Optional: Connected as 4 wire

| | | |
|---|---|---|
| SP | System Potential 24 V AC/DC | |
| 1 | System Neutral 0 V AC/DC | |
| 2 | Stem extends ↓ | Power Supply 24 V AC/DC |
| 3 | Stem retracts ↑ | |
| 15 | Bottom limit | Output Power Supply Max. 3 A |
| 16 | Top limit | |

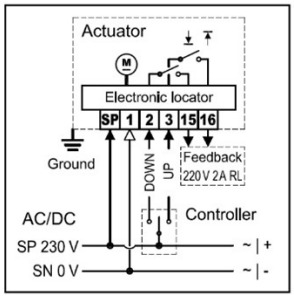
***For*** Precise control and fast response in 3-point mode (0. 02s)

Wiring: max. 1.5 mm²

**AVFF15B**
(power supply 230 V AC)




Optional: Connected as 3 wire




Optional: Connected as 4 wire

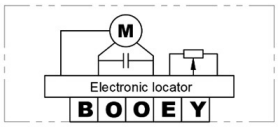
| | | |
|---|---|---|
| SP | System Potential 230 V AC/DC | |
| 1 | System Neutral 0 V AC/DC | |
| 2 | Stem extends ↓ | Power Supply 230 V AC/DC |
| 3 | Stem retracts ↑ | |
| 15 | Bottom limit | Output Power Supply Max. 3 A |
| 16 | Top limit | |

***For*** Precise control and fast response in 3-point mode (0. 02s)

Wiring: max. 1.5 mm²

### 3 - AVFF30M... proportional version

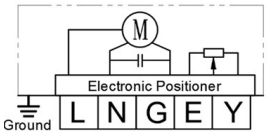
**AVFF30M**
(power supply 24 V AC)




| | | |
|---|---|---|
| B | System potential 24 V AC | ∽ |
| O | System neutral 0 V AC | ∽ |
| O | Signal neutral (—) | ⊥ |
| E | Positioning signal (+) | |
| Y | Position feedback (+) | |

Wiring: max. 1.5 mm²

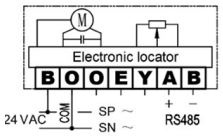
**AVFF30BM**
(power supply 230 V AC)




| | | |
|---|---|---|
| L | Power supply 230 V AC | ∽ |
| N | Power neutral 0 V AC | ∽ |
| G | Signal neutral (—) | ⊥ |
| E | Input \| 0-10 V or 4-20 mA (+) | |
| Y | Output \| 0-10 V or 4-20 mA (+) | |

Wiring: max. 1.5 mm²

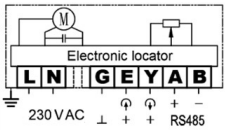
**AVFF30M/MOD, modbus RS485**
(power supply 24 V AC)




| | | |
|---|---|---|
| B | System potential 24 V | ∽ |
| O | System neutral 0 V | ∽ \| - \| ⊥ |
| O | Signal neutral (—) | |
| E | Positioning signal (+) | |
| Y | Position feedback (+) | |
| A | 485 Forward signal input (+) | |
| B | 485 Reverse signal input (—) | |

Wiring: max. 1.5 mm²

**AVFF30M/MOD, modbus RS485**
(power supply 230 V AC)

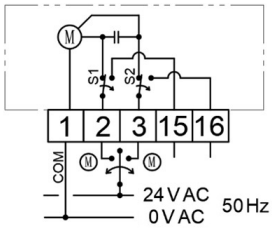



| | | |
|---|---|---|
| L | System potential 230 V | ∽ |
| N | System neutral 0 V | ∽ |
| G | Signal neutral (—) | ⊥ |
| E | Positioning signal (+) | |
| Y | Position feedback (+) | |
| A | 485 Forward signal input (+) | |
| B | 485 Reverse signal input (—) | |

Wiring: max. 1.5 mm²

4 - AVFF30... on-off floating version

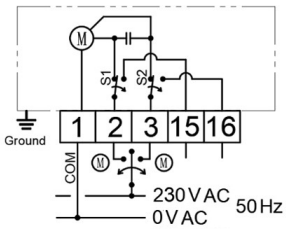
**AVFF30**
(power supply 24 V AC)




| | | |
|---|---|---|
| 1 | Power Neutral 0 V AC | |
| 2 | Stem extends ↓ | Power Supply 24 V AC 50 Hz |
| 3 | Stem retracts ↑ | |
| 15 | Bottom limit | Output Power Supply Max. 3 A |
| 16 | Top limit | |

Wiring: max. 1.5 mm²

**AVFF30B**
(power supply 230 V AC)




| | | |
|---|---|---|
| 1 | Power Neutral 0 V AC | |
| 2 | Stem extends ↓ | Power Supply 230 V AC 50 Hz |
| 3 | Stem retracts ↑ | |
| 15 | Bottom limit | Output Power Supply Max. 3 A |
| 16 | Top limit | |

Wiring: max. 1.5 mm²

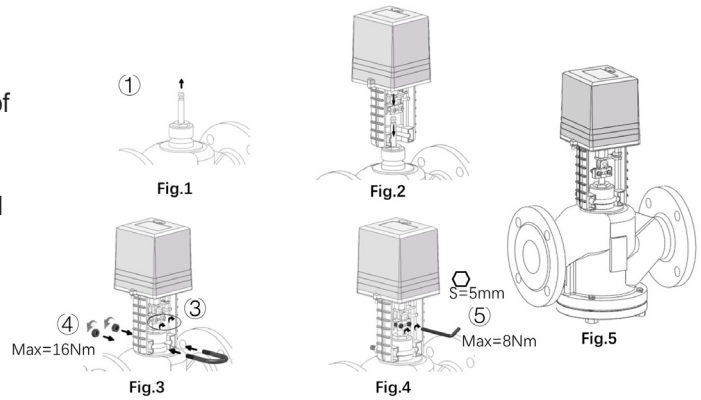
## Installation

As shown in the steps in the figure beside, install the electric actuator onto the control valve body:

**Fig.1:** First, use a tool (pliers or a wrench) to pull the valve stem of the control valve out of the valve body to its highest position (*1*).

**Fig.2:** Remove the U-bolt from the actuator and loosen the clamp on the actuator rod. Align the actuator rod with the valve stem and push them down together until the bottom surface of the actuator rests on the valve body mounting plane (*2*).

**Fig. 3:** Connect the actuator rod to the valve stem (*3*). Before assembly, ensure that the actuator rod and the valve stem are tightly butted against each other with no gaps. Using a 5 mm hex key, pre-connect the clamp clips, but do not fully tighten the screws yet.




Note: The clamp clips of AVFF15.. and AVFF30.. differ slightly. For AVFF30.., ensure the clamp is oriented so that the direction of the clamp relative to the notch aligns correctly with the side of the actuator rod.
Insert the U-bolt into the mounting hole between the actuator and the valve body, and tighten it using two M8 nuts (max torque = 16 Nm) (*4*).

**Fig. 4:** Tighten the two clamp screws with a 5 mm hex wrench, applying a maximum torque of 8 Nm (*5*).

**Fig. 5:** Finally, slide the two pointer rings (one red, one blue) along the actuator bracket until they are close to the pointer position.

## Setting AVFF15… ON/OFF, FLOATING

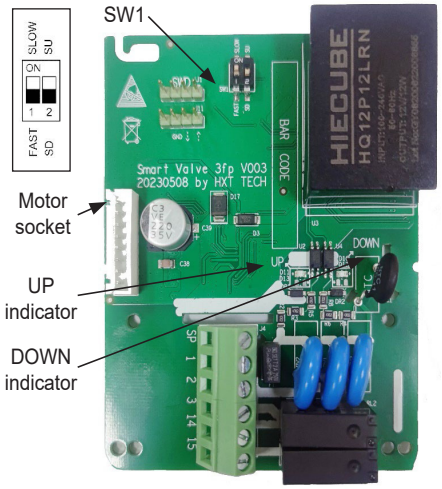
The floating actuator is equipped with an electronic positioner, as shown in the figure beside:

**1. Fully connect the actuator to the valve body**
Install according to the diagram and the steps described in “Complete Machine Assembly”.

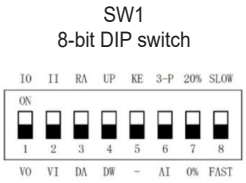
**2. Correctly connect the power cable or control wiring**
Perform wiring according to the “Wiring Diagram” included with the product.

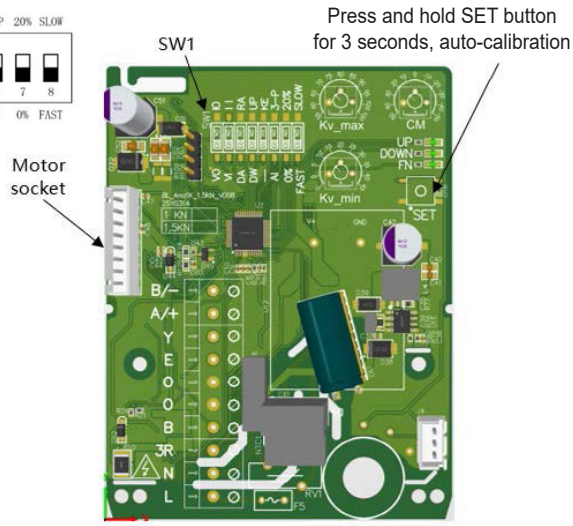
**3. Set the DIP switch to the required configuration**
Adjust the DIP switch only after disconnecting the power supply.

**4. Operate the actuator through the controller to perform a full run test**
Once the test run is completed, the equipment commissioning is finished.



## Setting AVFF15… PROPORTIONAL




**DIP 1 – Feedback Signal Type**
**ON**: DC current signal
**OFF**: DC voltage signal

**DIP 2 – Input (Control) Signal Type**
**ON**: DC current signal
**OFF**: DC voltage signal

**DIP 3 – Positioner Action Mode (Direct / Reverse Acting)**
**OFF – Direct Acting**: When the input signal increases, the actuator rod moves upward.
**ON – Reverse Acting**: When the input signal increases, the actuator rod moves downward.

**DIP 4 & DIP 5 – Signal Loss Response Mode** (Applicable only when the input signal is DC 4–20 mA or DC 2–10 V)

**> When DIP 5 = OFF:**
**DIP 4 = ON**: Upward fail-safe – on input signal loss, the actuator rod moves to the upper limit position.
**DIP 4 = OFF**: Downward fail-safe – on input signal loss, the actuator rod moves to the lower limit position.

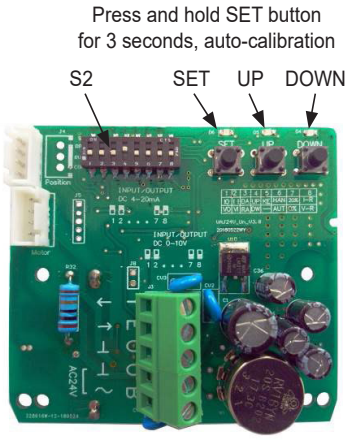
**> When DIP 5 = ON:**
**Position Hold** – regardless of DIP 4, on input signal loss the actuator rod remains at its current position.
Note: This function is not available with DC 0–10 V or DC 0–20 mA input signals.
For these signal types, if the input signal is lost, the actuator defaults to operating according to the 0% signal level.

**DIP 6 – Positioning Mode** (Refer to the wiring diagram for system connections)
**OFF**: Modulating signal control mode
**ON**: 3-position control mode or manual control (manual operation possible using the mechanical handle)

**DIP 7 – Starting Point of Input and Feedback Signals (0% / 20%)**
**OFF**: 0% (e.g., DC 0–10 V, DC 0–20 mA)
**ON**: 20% (e.g., DC 2–10 V, DC 4–20 mA)

**DIP 8 – Running Speed Selection**
**OFF**: High-speed mode – 1.5 s/mm
**ON**: Low-speed mode – 3.8 s/mm

## Setting AVFF30M… PROPORTIONAL 24 V AC




The proportional actuator is equipped with an electronic positioner, as shown above:

**1. Connect the actuator to the valve body**
Install according to the diagram and the steps described in “Complete Assembly”.

**2. Perform correct wiring**
Follow the “Wiring Diagram” provided inside the product.

**3. Set the DIP switches to the required configuration**
Refer to “Positioner Setting” below; make all adjustments with the power disconnected.

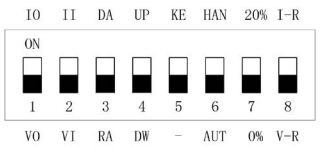
**4. Turn on the actuator power supply**
All three indicators will illuminate simultaneously and then turn off, indicating that the positioner self-test is complete.

**5. Start the auto-calibration procedure**
Press and hold the **SET** button for more than 3 seconds to initiate the full auto-calibration sequence:
> The actuator rod first moves **downward**: During downward movement, the **SET** and **UP** indicators flash, while the **DOWN** indicator remains steadily lit. Once the rod reaches the valve’s lower end position and the position is recorded, it begins to move upward.
> The actuator rod then moves **upward**: During upward movement, the **SET** and **DOWN** indicators flash while the **UP** indicator remains steadily lit. After reaching the valve’s upper end position and recording it, all indicators stop flashing and turn off.

Auto-calibration is now complete, and the system returns to the normal control state.

## Switch S2 – DIP Function Overview (Compact Table)

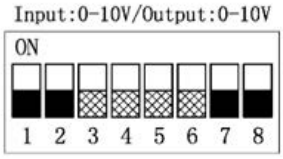
S2



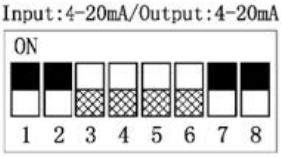

| S2 | Setting status | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Output signal | | Input signal | | Positioner Action modes | | Signal loss response | | | Manual/ Auto selection | | Starting point | | Resi-stance matching | |
| | Voltage | Current | Voltage | Current | Direct Acting | Reverse acting | Down | Up | Position hold | Auto | Manual | 0% | 20% | Voltage signal | Current signal |
| | VO | IO | VI | II | DA | RA | DW | UP | KE | AUT | HAN | 0% | 20% | V-R | I-R |
| 1 | OFF | ON | | | | | | | | | | | | | |
| 2 | | | OFF | ON | | | | | | | | | | | |
| 3 | | | | | OFF | ON | | | | | | | | | |
| 4 | | | | | | | OFF | ON | - | | | | | | |
| 5 | | | | | | | OFF | OFF | ON | | | | | | |
| 6 | | | | | | | | | | OFF | ON | | | | |
| 7 | | | | | | | | | | | | OFF | ON | | |
| 8 | | | | | | | | | | | | | | OFF | ON |

Standard signal
DIP switch status
Setting map

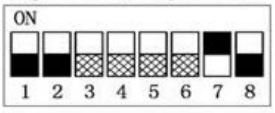
Input:0-10V/Output:0-10V



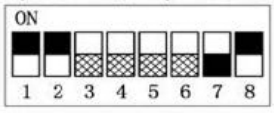

Input:4-20mA/Output:4-20mA



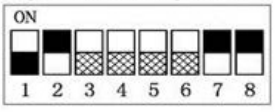

Input:2-10V/Output:2-10V



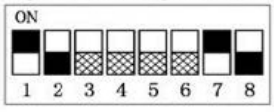

Input:0-20mA/Output:0-20mA



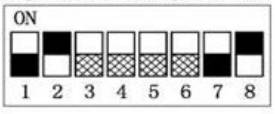

Input:4-20mA/Output:2-10V



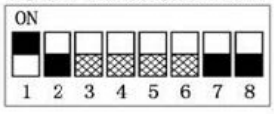

Input:2-10V/Output:4-20mA




Input:0-20mA/Output:0-10V




Input:0-10V/Output:0-20mA




**DIP 1 – Feedback Signal Type**
**ON**: Current (DC mA)
**OFF**: Voltage (DC V)

**DIP 2 – Input (Control) Signal Type**
**ON**: Current (DC mA)
**OFF**: Voltage (DC V) Use together with DIP 7 and DIP 8.

**DIP 3 – Action Mode**
**OFF**: Direct acting (signal ↑ → rod up)
**ON**: Reverse acting (signal ↑ → rod down)

**DIP 4 & DIP 5 – Signal Loss Response**
(For 0–10 V / 2–10 V / 4–20 mA)
**DIP 5 OFF + DIP 4 ON**: Fail-safe Up (rod → upper limit)
**DIP 5 OFF + DIP 4 OFF**: Fail-safe Down (rod → lower limit)
**DIP 5 ON**: Position Hold (rod stays in place)
Note: Not functional for 0–20 mA (defaults to 0 mA behavior).

**DIP 6 – Manual / Auto Mode**
**OFF**: Auto (follows input signal)
**ON**: Manual (operate via handle or UP/DOWN buttons)

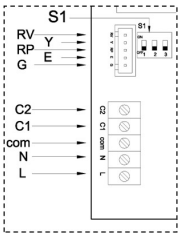
**DIP 7 – Signal Start Point**
**OFF**: 0% (0–10 V, 0–20 mA)
**ON**: 20% (2–10 V, 4–20 mA)

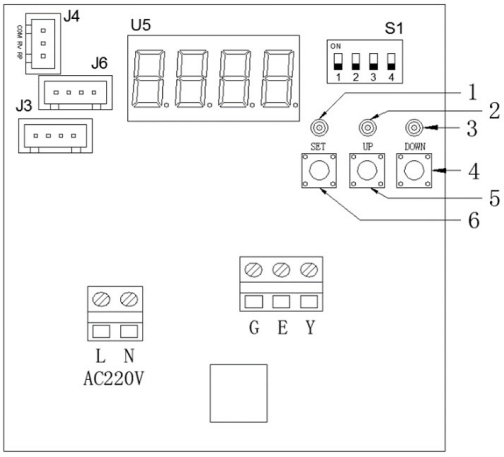
**DIP 8 – Signal Resistance Matching**
**ON**: Current input matching
**OFF**: Voltage input matching

## Proportional 230 V AC (AVFF…B)

### Instructions for the actuator panel with an electronic locator

Press and hold
SET button
for 3 seconds,
auto-calibration

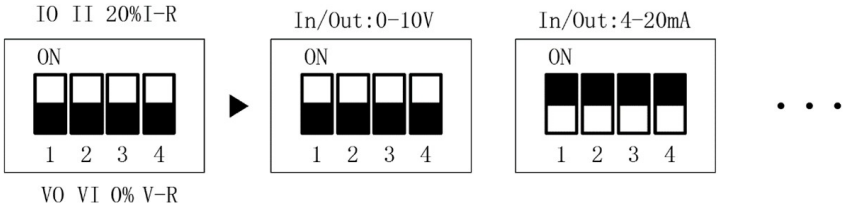



U5: Display
1: “SET” Indicator light
2: “UP” Indicator light
3: “DOWN” Indicator light
4: “DOWN” button
5: “UP” button
6: “SET” button

S1: Signal type selector
J3: Motor socket
J4: Power socket
J6: Limit switch socket

Status and setting of 4-digit DIP switch S1




**DIP1**: Feedback signal type
ON: current output
OFF: voltage output

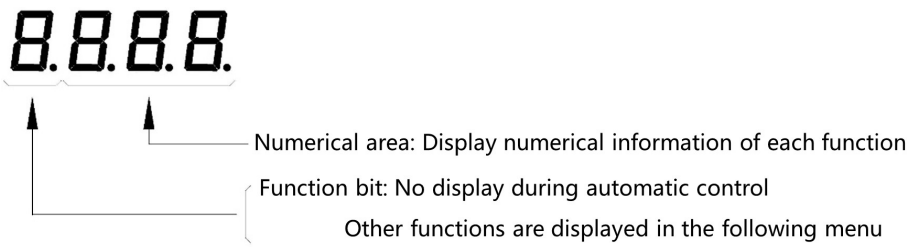
**DIP2**: input signal type:
ON: current output
OFF: voltage input

**DIP3**: Starting point selector, i.e., percentage of the starting point and full point of input and output signals.
OFF: 0%; e.g., DC0-10V–DC0-20mA etc.
ON: 20%; e.g., DC2-10V–DC4-20mA etc.

**DIP4**: Resistance matching for input signals (The same as the DIP2)
ON-Perform resistance matching for the current input signal
OFF- Perform resistance matching for the voltage input signal

| S1-DIP | Signal type selector | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Output signal | | Input signal | | Starting point selector | | Resi-stance matching for input signals | |
| | Voltage | Current | Voltage | Current | 0% | 20% | at voltage | at current |
| DIP1 | OFF | ON | | | | | | |
| DIP2 | | | OFF | ON | | | | |
| DIP3 | | | | | OFF | ON | | |
| DIP4 | | | | | | | OFF | ON |

## Proportional 230 V AC (AVFF…B)




**1. Quick debugging ( Auto-calibration of valve stroke):**

After each power - on of the device, it directly enters the “automatic control” state. In the “automatic control” state, press and hold the [“SET”] key for three seconds, then the auto-calibration program will be started:

> The actuator rod moves downward first. The “SET indicator light” and “UP indicator light” flash, and the “DOWN indicator light” is always on.

> Stop slightly at the bottom dead center, memorize it and then move upward. The “SET indicator light” and “DOWN indicator light” flash, and the “UP indicator light” remains on. Move upward to the limit position, stop slightly, memorize it, and then all indicator lights stop flashing. The auto-calibration is completed.

**2. Manual/Auto control status**

In the normal “automatic control” state, when the [“SET” + “UP”] two keys are pressed simultaneously for three seconds, the “automatic control” and “manual control” states can be switched alternately.
In the “manual control” state, the function bit displays “H”, and at this time, the up and down actions of the actuator can be operated through the [“UP”] key or the [“DOWN”] key.

**3. Automatic control state**

3.1. Feedback signal display
Under the normal “automatic control” state, there is no display of the function bit. At this time, the value displayed in the numerical area of the display screen is the percentage value of the valve position feedback signal.

3.2. Input Signal Display
In the normal “automatic control” state, by switching the [“DOWN”] key, the percentage value of the valve position feedback signal and the percentage value of the input signal can be alternately displayed in the numerical area of the display screen. When the percentage value of the input signal is displayed in the numerical area, the function position shows “ ”. After the percentage value of the input signal is displayed for 10 seconds without any operation, it will automatically return to the normal “automatic control” state.

**4. Overload alarm function**

For the actuator, stalling (when the resistance value of the potentiometer does not change within 30 seconds) at non - extreme positions (near the two dead - point positions, that is, within 5% of approaching zero and full scale) is regarded as a fault. At this time, the current feedback value and E01 are displayed alternately, and the output of the thyristor is cut off. Then, try to output again after 30 seconds, and repeat this process.

## Engineers set parameters

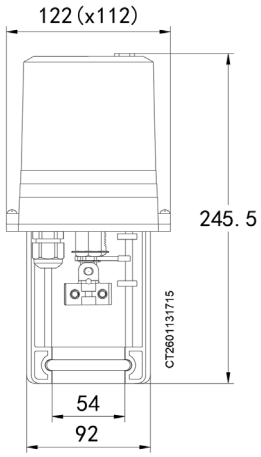
In the “Automatic Control” state, press and hold the three keys [“SET” + “UP” + “DOWN”] simultaneously for three seconds to enter the engineer parameter setting state. Press the [“SET”] key in sequence, and the function bit and the value area will flash alternately. When the function bit is flashing and the value area is not flashing, you can change the function bit through the [“UP”] and [“DOWN”] keys. When the value area is flashing and the function area is not flashing, you can change the value in the value area through the [“UP”] and [“DOWN”] keys. In the parameter setting state, if there is no operation for more than 10 seconds, it will return to the “Automatic Control” state.

| Conventional “Function Bit” Display Table | | | |
|---|---|---|---|
| **Function description** | **Function bit** | **Display** | **Explanation** |
| Position feedback | No display | 0 ▼ 100 | Numeric range: 0% - 100%<br>In automatic mode, only the position feedback value is displayed.<br>In the automatic state, if you need to view the input signal values, you can use the DOWN key to switch between the position feedback values and the input signal values.<br><br>Note: After 10 seconds of no operation while the input signal value is displayed, the positioner automatically reverts to the state of displaying the position feedback value. |
| Input signal | P | P0 ▼ P100 | |
| Manual function | H | H0 ▼ H100 | Numeric range: 0% - 100%<br>Only display the position feedback value. It is not allowed to switch to the input signal display state. In this state, the actuator can be operated to run by pressing the “UP” key or the “DOWN” key.<br>Phenomenon: Flashing the current feedback value; |
| Stroke calibration alarm | E | E00 | E00 = Warning that the stroke calibration has not been completed correctly.<br>Phenomenon: The UP and DOWN indicator lights flash alternately with an interval of 1 second. |
| Locked Rotor Alarm | | E01 | E01 = Locked Rotor Alarm (The overload switch has been triggered)<br>1. Upward rotation blocking alarm<br>Phenomenon-The alarm code E01 flashes, and the SET and UP indicator lights flash together with a cycle of 1 second.<br>2. Downward blocking alarm<br>Phenomenon-The alarm code E 01 flashes, and the SET and DOWN indicator lights flash together with a cycle of 1 second. |
| Lost signal alarm | | E02 | E02= Lost signal alarm<br>In the automatic state, if the input signal line is disconnected, the positioner determines it as a lost signal alarm. |
| Potentiometer Upper Limit Alarm | | E03 | E03= Potentiometer upper limit alarm<br>In the automatic state, when the output shaft of the mechanism moves upward to the potentiometer protection position, the positioner determines it as an upper limit alarm. |
| Potentiometer Lower Limit Alarm | | E04 | E04= Potentiometer lower limit alarm<br>In the automatic state, when the output shaft of the mechanism descends to the potentiometer protection position, the positioner judges it as a lower limit alarm. |
| Operating failure | | E05 | E05 = Actuator running failure, such as abnormal transmission system, or abnormal potentiometer operation, etc.<br>1. Downward failure<br>Phenomenon: Display E05, and the DOWN indicator light flashes 3 times and pauses for 1s.<br>2. Upward failure<br>Phenomenon: Display E05, and the UP indicator light flashes 3 times and pauses for 1s. |

| Level 1 parameter table | | | |
|---|---|---|---|
| **Function description** | **Function bit** | **Display** | **Factory values** |
| Starting point selector | 1 | 1 00<br>1 01 | Selection of the starting point of the input signal.<br>Value range: 00 = 0%, 01 = 20%<br>Note: The DIP switch settings take precedence. This parameter does not need to be set and can use the default value. |
| Direct or inverse acting selector | 2 | 2 00<br>2 01 | Value range: 00, 01<br>00= Direct acting (Signal increases, the output shaft of the actuator moves upward)<br>01= Inverse acting (Signal increases, the output shaft of the actuator moves downward)<br>Note: When not specified, the factory default is “00”. |
| The working mode of the lost signal | 3 | 3 00<br>3 02 | Value range: 00, 01, 02<br>00= Downward movement<br>01= Upward movement<br>02= Hold the position,<br>Note: The default setting at the factory is “00”. |
| Lower limit value of the stroke Kv-min | 4 | Value range: 0-55 | Stroke limit setting when the input signal is at 0%<br>00= Disable<br>The factory default is “00”. |
| Upper limit value of the stroke Kv-max | 5 | Value range: 55-100 | Stroke limit setting when the input signal is at 100%<br>100= Disable;<br>The factory default is “100”. |
| Flow characteristic | 6 | Value range: 00, 01, 02 | The curve relationship between the percentage of the input signal and the percentage of the stroke:<br>00= Linear, 01= Equal percentage, 02= Reverse equal percentage<br>The factory default is “00”. |
| Rangeability | 7 | Value range: 25, 30, 33, 50, 60, 80, 100 | Only available when the equal percentage characteristic is used.<br>Note: The factory default is “30”. |
| Level 2 parameters unlocking bit | 8 | | Users cannot change it at will.<br>Note: The default factory setting is “08”. Set it to “16”, and after confirmation, enter the level 2 parameters setting. |

| Level 2 parameter table | | | |
|---|---|---|---|
| **Function description** | **Function bit** | **Display** | **Factory values** |
| Signal dead zone setting | 9 | 9 05<br>9 100 | Value range: 0.4-10.0<br>!! Please change with caution.<br>Note: The default facto ry setting is “0.6”, and the dead zone parameter is 0.6%. If it is set to “2.0”, after confirmation, the dead zone parameter will be 2.0%. |

## Dimensions (mm)

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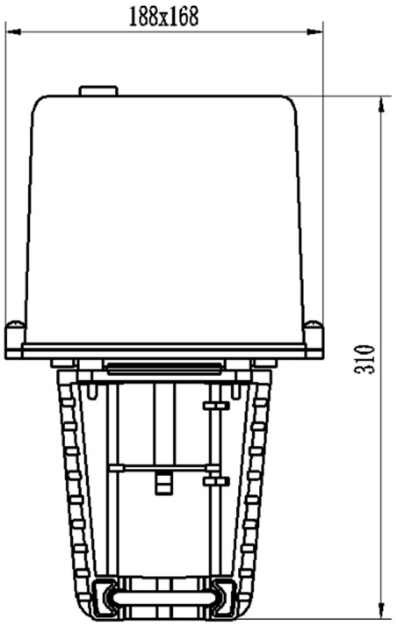


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