

DAV Electric Actuator



General

DAV series electric actuator has 2500N, 4000N, 5000N force to match different valve body, which can regulate the fluid flow, aim to system constant temperature, constant pressure, constant humidity, widely used in HVAC application.

Features & Benefits

Features and Benefits	
Quality components	<ol style="list-style-type: none">1. Forged aluminum bracket and ABS actuator cover.2. Actuator can meet different differential pressure demand.3. Synchronous motor, equip with shut off power function, which can open at any position due to supply stable torque.4. forward and reversal control setting meet different valve body.
More choices	On-Off, floating or modulating(0-10Vdc/4-20mA) 24Vac, 220Vac 2500N, 4000N, 5000N force

Actuator (2500N)

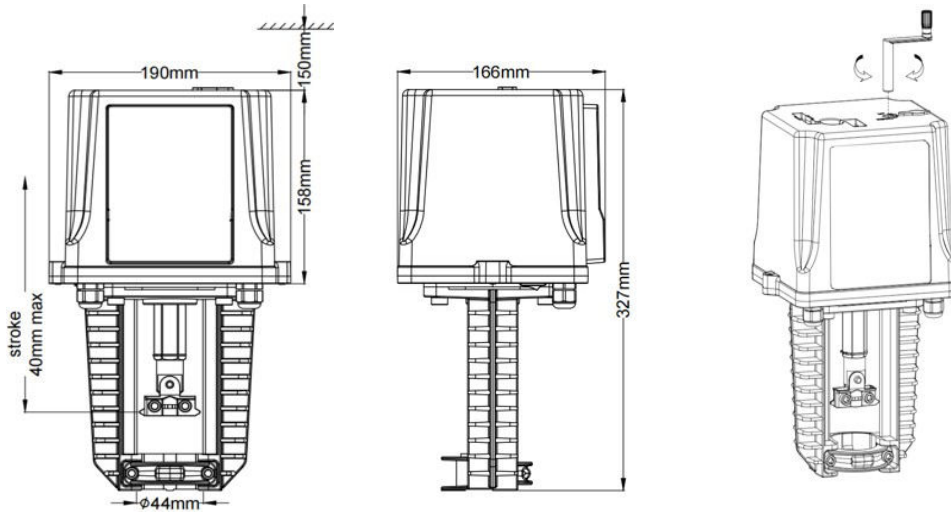
Item No.	DAV-2500-44-1-24-IP54	DAV-2500-44-1-24-IP54	DAV-2500-44-3-24-IP54
Voltage	AC220V±15%	AC24V±15%	AC24V±15%
Power	16VA		
Input Signal	On/Off	3-point	0-10Vdc or 4-20mA
Feedback Signal	-----	-----	0-10Vdc or 4-20mA
Act Speed(mm/s)	40mm/240s±5%		
Max. Stroke(mm)	44mm		
Output Force(N)	2500		
End Connection	Buckle		
Height(mm)	327		
Weight(kg)	4.7		

Actuator (4000)

Item No.	DAV-4000-44-1-220-IP54	DAV-4000-44-1-24-IP54	DAV-4000-44-3-24-IP54
Voltage	AC220V±15%	AC24V±15%	AC24V±15%
Power	16VA		
Input Signal	On/Off	3-point	0-10Vdc or 4-20mA
Feedback Signal	-----	-----	0-10Vdc or 4-20mA
Act Speed(mm/s)	40mm/400s±5%		
Max. Stroke(mm)	44mm		
Output Force(N)	4000		
End Connection	Buckle		
Height(mm)	327		
Weight(kg)	4.7		

Actuator (5000)

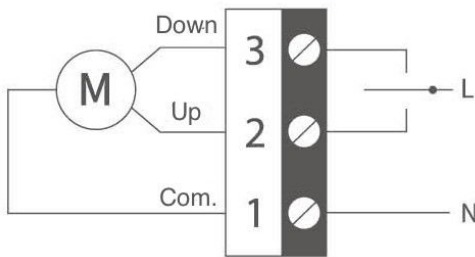
Item No.	DAV-4000-44-1-220-IP54	DAV-4000-44-1-24-IP54	DAV-4000-44-3-24-IP54
Voltage	AC220V±15%	AC24V±15%	AC24V±15%
Power	16VA		
Input Signal	On/Off	3-point	0-10Vdc or 4-20mA
Feedback Signal	-----	-----	0-10Vdc or 4-20mA
Act Speed(mm/s)	40mm/400s±5%		
Max. Stroke(mm)	44mm		
Output Force(N)	5000		
End Connection	Buckle		
Height(mm)	327		
Weight(kg)	4.7		



Manual Operation:

1. Insert handle
2. Rotate "UP" and "DOWN" .

Wiring



1-2 Up/1-3Down

Modulating Wiring: Power Input:AC24V 50/60Hz

Caution

1. Power positive(L) and negative(N) must be distinguished when more than one actuators wire parallel.
2. Power must be cut off before adjust DIP.

Commissioning:

1. Press and hold K1 till LED display (--) and flash 3 times.
2. Release K1, then press once again.
3. The actuator will run a full travel automatically.
4. When act finished, commissioning complete.

Power Switch(bottom) ↓

① Terminal: AC24V + (L) ② Terminal: AC24V - (N)
Control Signal:DC0~10V/4~20mA
 ③ Terminal: - (Input/Output Com.)
 ④ Terminal: + Input DC0~10V/4~20mA
 ⑤ Terminal: + Output DC0~10V/4~20mA

DIP switch setting

Valve Stroke

DC 0-10V Up	DC 0-10V Down	DC 0-10V Down	DC 0-10V Down
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On/off Wiring(AC24V)

① Terminal: Com.
 ⑥ Terminal: Up.
 ⑦ Terminal: Down.

K1

Floating and Modulating

Caution: 1. Power positive(L) and negative(N) must be distinguished when more than one actuators wire parallel.

2. 0-10VDC transfer to 4-20mA just set DIP switch, no need to change wiring

Commissioning Process

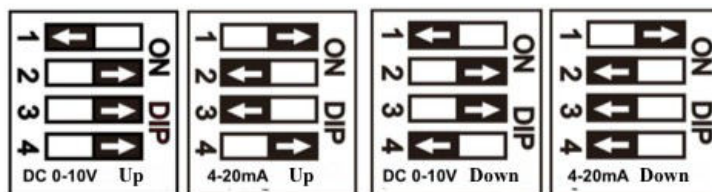
Commissioning:1. Press and hold K1 till LED display -- and flash 3 times.

2. Release K1, then press once again.

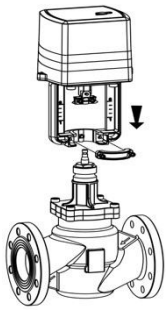
3. The actuator will run a full travel automatically.

4. When act finished, commissioning complete.

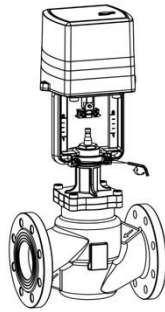
DIP switch setting



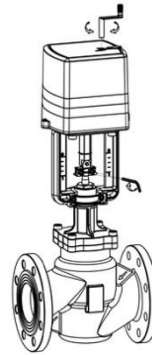
Install Actuator



1. Insert the actuator into valve stem



2. Tight two screws use 4mm Allen key



3. Use manual lever to adjust the stroke, then put stem into slot, last tighten the screw use 5mm Allen key.

