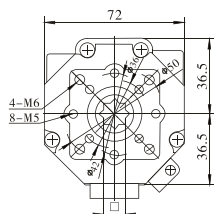
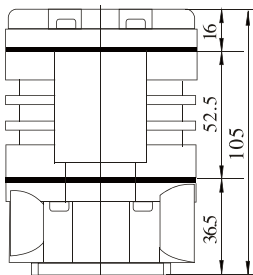


Operation Manual

NTE-02S Electric Actuator



Square	□ 9x9、□ 11x11
Flange	F03、F04、F05
Valve shaft	Height: ≤ 16mm

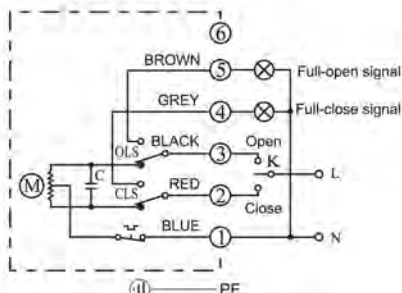
Modle	NTE-02S							
Power	DC24V		AC24V		AC110V		AC220V	
Motor Power	8W		6W		6W		6W	
Rated Current	0. 7A		1. 3A		0. 3A		0. 15A	
Output Torque	9Nm	18Nm	9Nm	18Nm	9Nm	18Nm	9Nm	18Nm
Opertion Speed	6S	12S	6S	12S	6S	12S	6S	12S
Opertion Angle	0~90° 、 0~180°							
Control Type	G Type (24VDC)		A Type , B Type					
Total Weight	1. 0kg							
Insulation Resistance	100M Ω /250VDC				100M Ω /500VDC			
Voltage-withstand Class	500VAC, one minute				1500VAC, one minute			
Enclosure	IP67							
Installation	360°, at any angle							
Lead Wire	7-core lead wire(std.) or 9-core lead wire							
Ambient Temperature	-30℃ ~+60℃							
Fuse	2A		3A		1A		1A	

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Actuators & Controls

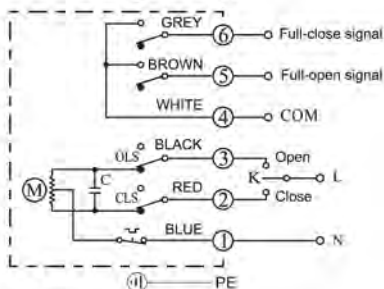
Type A: Standard Type

Output Signal: 2xSPST(NO) with line power switch



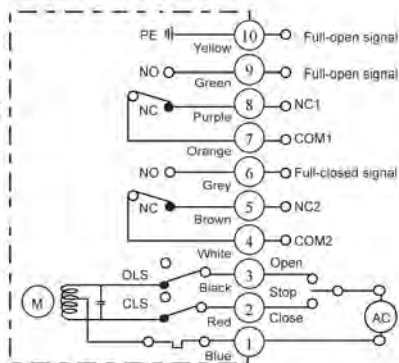
Type B: 2xSPST(NO)

Output Signal: 1xSPST(NO) micro-switch each at open & close position.



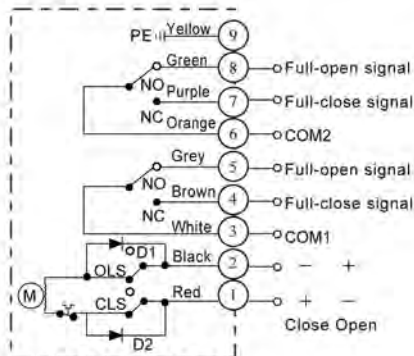
Type B1: 2xSPDT(NO/NC)

Output Signal: 1xSPDT(NC/NO) micro-switch each at open & close position



DC Motor with 2xSPDT(NO/NC)

Output Signal: 1xSPDT(NO/NC) micro-switch each at open & close position.



REQUIREMENT OF INSTALLATION CONDITIONS

- The product can be installed not only indoors, but also outdoors.
- The product is not explosion-proof, Care shall be taken to avoid inflammable and explosive environment.
- It is necessary to have protective cover installed, if it operates in such conditions of long time raining, directly receiving sunshine or spatter.
- Maintenance space shall be reserved for connection and manual operation.
- The ambient temperature shall be within the rang of $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$.

Special hint: This type of product is not for high temperature environment.

REQUIREMENT OF WORKING MEDIUM TEMPERATURE

- When it operates with valve, the heat of working medium will be conducted to the body of the unit, care shall be taken to the temperature rising.
- It is possible to directly install the unit if the temperature of working medium is below 80°C .
- If the temperature of working medium is higher than 80°C , direct installation is forbidden. The heat radiation device shall be additionally installed.

REQUIREMENT OF INSTALLATION AND APPLICATION

- This type of actuator is suitable for the valve with ISO5211 standard: Installation size: F03, F04, F05, square valve rod with sizes of 11x11 or 9x9; Height: $\leq 16\text{mm}$.
- During the connection with valve, both actuator and valve must be situated at full close position.
- After connection with the valve, drive the electric actuator by crank for full open and full close once per each and confirm the operation is stable without off center and distortion. Check the valve, see if the full close and full open positions can be realized within the indication range of opening indicator of electric actuator.

Special hint: 1. Too much force will lead the electric actuator over-travel and being damaged.

2. Not to operate the electric actuator outside the range of opening indicator.

ELECTRIC TEST-RUN

- Make correct wiring according to the control circuit drawing adhered inside the cover for Junction Box. After confirming, switch on the power supply.
- The switch is turned to CLOSE; execute the operation of mechanical driving of valve to close position (clockwise) till the closing of the limit switch (K1) being actuated. The electric actuator will stop turning.
- The switch is turned to OPEN; the actuator drives the valve to the operation of full open position (anti-clockwise) till the opening of the limit switch (K2) being actuated. The electric actuator will stop turning.

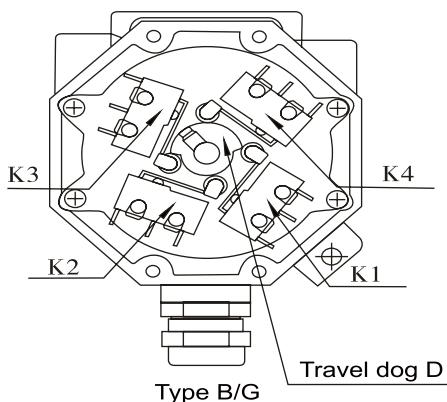
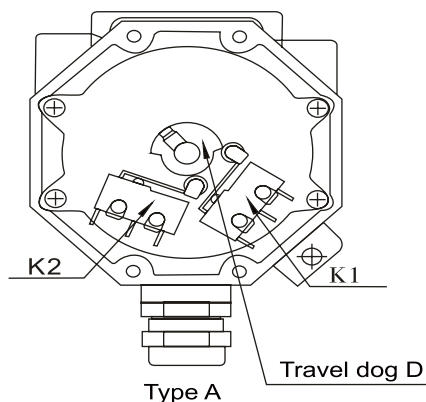
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Actuators & Controls

ADJUSTMENT OF LIMIT POSITION SWITCH (ELECTRIC LIMIT)

- ① Drive the valve to Full Close position by crank.
- ② Loose the fixing screw on travel dog, D; Turn D clockwise, making the corresponding micro switch, K1 move. When the micro-switch being initiated, you can hear a sound of "click", and then stop turning D and fasten the screws on D, so as to fix D. The adjustment is finished.

Note: The adjustment of limit position switch for all types of NTE-02S series is the same.



MAINTENANCE

- Since the molybdenum-base grease with long service life and good pressure resistance is employed, no lubrication and periodical maintenance are needed.
- If the operation of valve is rare, periodically driving the actuator is necessary and check if there is any abnormal condition.

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