

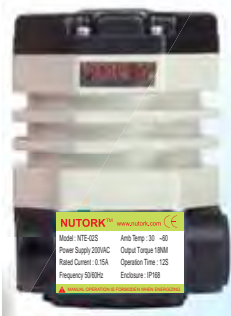
NUTORK®

Actuators & Valves



NTE Series Quarter Turn Electric Actuator

NTE - 02S Type



NTE - 02L
ABS Enclosure



Visual Indicator
+Handwheel (Option)



Internal Magnet
Contactor For 24VDC (Option)



Standard Type



Modulating Type



Approved by:
Low Voltage Directive 2006/95/EC
Machinery Directive 2006/42/EC
Electromagnetic Compatibility
Directive 2004/108/EC

NUTORK CORPORATION



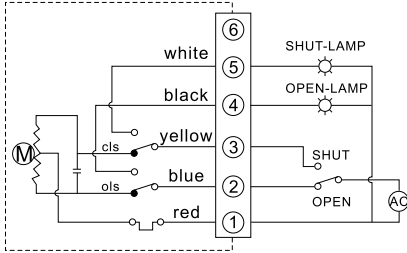
1. Due to characteristics of valve, the electric actuator must be able to provide high start up torque with full load whenever the valve is at open, closed or any other position. NUTORK NTE series electric actuators are designed for such working requirement.
2. Gear driving unit is made of alloy steel with heat treatment featuring high strength, excellent wear resistance and long term fatigue load impact.
3. The crank handle is designed as detachable to minimize the dimension of the actuator.
4. The integral construction of the wormgear and drive shaft provides long term dependable operation with high output torque.
5. The captive cover bolt prevents bolt from dropping when cover is opened.
6. The stainless steel stroke bolt and cam provide 0 - 90° adjustability.
7. The tempered glass visual position indicator provides anti-aging, temperature resistance and anti-deformation.
8. The epoxy encapsulated control servo unit provides heat insulation, moisture and dust proofing, thus suitable for various industrial process requirements.

Technical Data(NTE Series Electric Actuator)

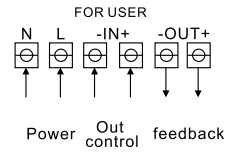
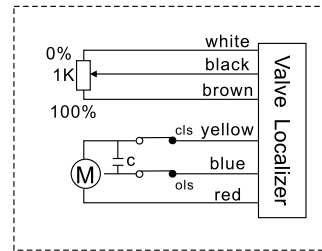
Model	NTE-03	NTE-05	NTE-10	NTE-20	NTE-40	NTE-60	NTE-100	NTE-160	NTE-200	NTE-400	NTE-600	
Output Torque(Nm)	30	15/30/50	50/60/100	80/100/150/200	150/250/300/400	600	300/800/1000	1600	2000	4000	6000	
Operation Speed (Sec.)@0-90°/ 50Hz	20	10/20/30(std.)	15/20/30(std.)	9/15/20/30(std.)	9/15/20/30(std.)	30	15/30/50(std.)	88	100	100	150	
Operation Angel(Max.)	0-360°	0-360°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	0-90°	
Valve Conn./ ISO5211	9/11-F03/F05 or 14-F05/F07		14/17-F05/F07	17/22-F07/F10	17/22/27-F07/F10		22/27 - F10/F12 or 36 - F14/F16			Bare Shaft		
Power (Watts)	DC motor	20	20	40	40	90	90
	AC motor	10	10	23	40	90	90	100	100	100	200	200
Rated Current 50HZ(A)	24VDC	2	2	2.4	8.5	11.5	11.8	11.5
	110VAC	0.48	0.48	0.64	0.9	2	2.06	2.2	2.2	2.2	4.10	4.10
	220VAC	0.24	0.24	0.32	0.48	0.92	0.95	1.20	1.20	1.20	2.10	2.10
	380VAC	0.15	0.15	0.19	0.25	0.45	0.46	0.48	0.48	0.48	0.90	0.90
Weight-(Kg)	2.2	2.2	4	7	7.8	7.8	11.2	11.5	11.8	31	31	
Duty Cycle (ON/OFF)	S2 : 35%,10min. ~ 30min.											
Duty Cycle (Modulating)	S4 : 30~50%, 300~1200 Start/Hour											
Power Supply	1 Phase:110/220VAC±10%@50/60Hz, 3 Phase:380/440VAC±10%@50/60Hz, 12VDC.24VDC/VAC											
Stall Protection	standard accessory , built-in , auto-reset type											
Anti-Vibration	XYZ 10g , 0.2~34Hz , 10 minutes											
Ambient Humidity	90%RH Max.(non-condensing)											
Ambient Temperature	-30°C ~ +60°C											
Enclosure Rating	IP67(standard), IP68(option)											
Mounting Direction	All Directions											
Electrical Conduit	M20x1.5 with cable gland for standard type(2 - M20x1.5 with cable gland for modulating type)											
Manual Operation	Detachable Crank Allen-Key (standard accessory)											
Stopper	In operation : limit switches at full & closed position ; manual operation:mechanical stopper											
Housing Material	Die-casting aluminum alloy											
Various Option	1. Type A standard type											
	2. Type B additional limit switches (2xSPST) or Type B1 additional limit switches(2xSPDT)											
	3. Type C potentiometer unit (1KΩ or 5KΩ)											
	4. Type D potentiometer unit (1KΩ or 5KΩ) with additional limit switches (2xSPST)											
	5. Type E modulating controller (input signal : 4-20mA or 1-5VDC.output signal : 4-20mA)											
	6. Type F current position transmitter(output signal : 4-20mA)											
	7. H : Space heater											
	8. Torque switches(2 units)											
	9. Various mounting brackets											

Type A: Standard Type

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

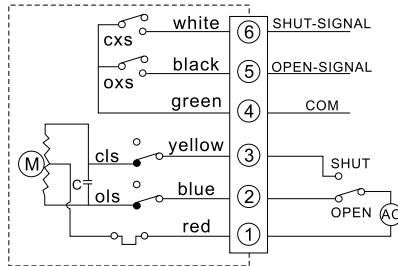


Input Signal:
4-20mDC or 0-5VDC
Output Signal:
4-20mADC

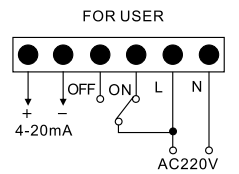
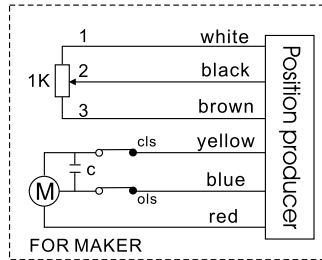


Type B: 2xSPST(NO)

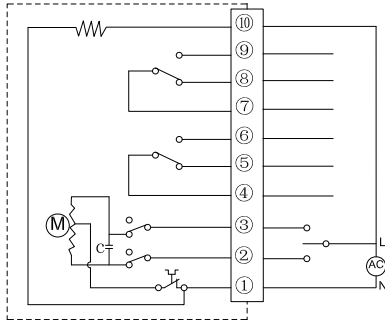
Output Signal:
1xSPST(NO)
micro-switch each at
open & close position.



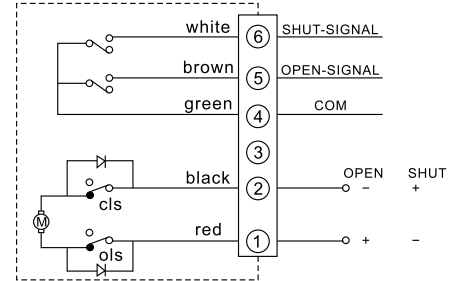
Output Signal:
4-20mADC



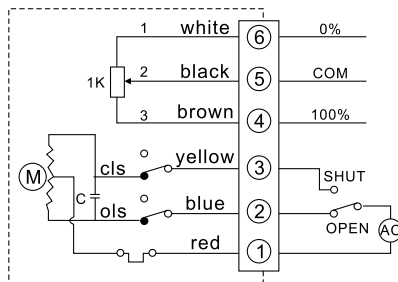
Output Signal:
1xSPDT(NC/NO)
micro-switch each at
open & close position



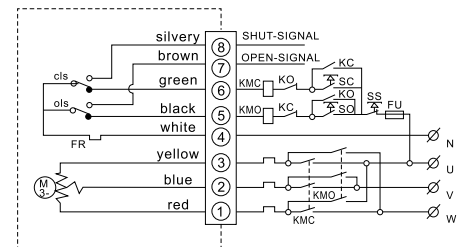
Output Signal:
1xSPST(NO)
micro-switch each at
open & close position.

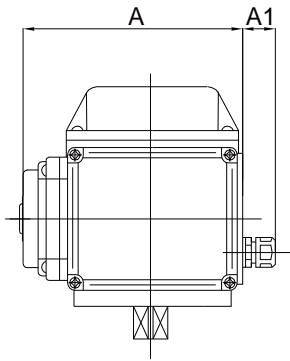


Output Signal:
0-500Ω or 0-1000Ω

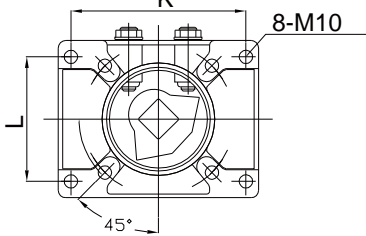


Output Signal:
1xSPST(NO)
micro-switch each at
open & close position.

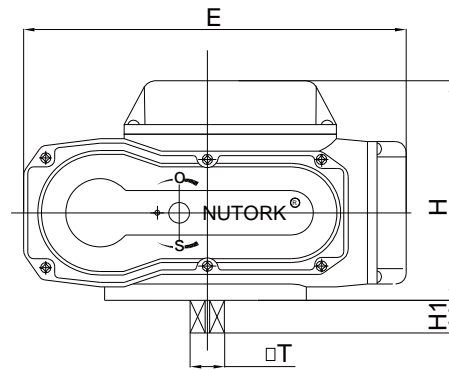




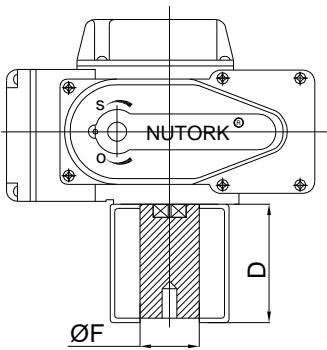
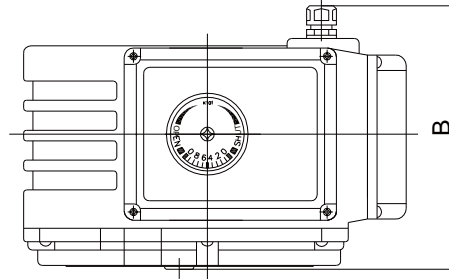
Bare Shaft



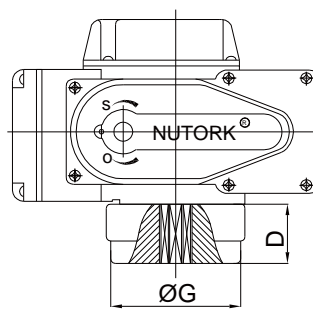
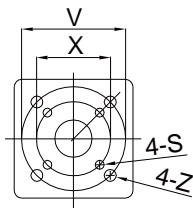
Bare Shaft



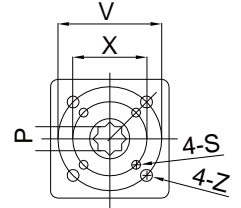
Bare Shaft



Bracket + Coupler



ISO5211



MM

Model	A	A1	E	H	H1	T	K	L	B	X	V	◇P	S	Z	ØG	ØF	D
NTE-03	115	22	160	103	12	12*12	68	60	138	36	50	9/11/14	4-M5	4-M6	70	28	Followed by Valve
NTE-05	115	22	160	103	12	12*12	68	60	138	36	50	9/11/14	4-M5	4-M6	70	28	
NTE-10	123	22	208	124	19	15*15	82	70	105	50	70	9/11/14	4-M6	4-M8	90	35	
NTE-20	148	22	258	148	22	23*23	118	84	178	70	102	14/17	4-M8	4-M10	125	48	
NTE-40	148	22	258	148	22	23*23	118	84	178	70	102	17/22	4-M8	4-M10	125	48	
NTE-60	148	22	258	148	22	23*23	118	84	178	70	102	17/22	4-M8	4-M10	125	48	
NTE-100	156	27.5	280	159	25	30*30	148	84	187	102	125	22/27	—	4-M10	135	65	
NTE-160	156	27.5	280	159	25	30*30	148	84	187	102	125	22/27	—	4-M10	135	65	
NTE-200	156	27.5	280	159	25	30*30	148	84	187	140	165	36	—	4-M16	175	65	
NTE-400	266	—	439	179	48	52*52	180	180	266	159	254	52	—	4-M18	—	—	
NTE-600	266	—	439	179	48	52*52	180	180	266	159	254	52	—	4-M18	—	—	