



11-3

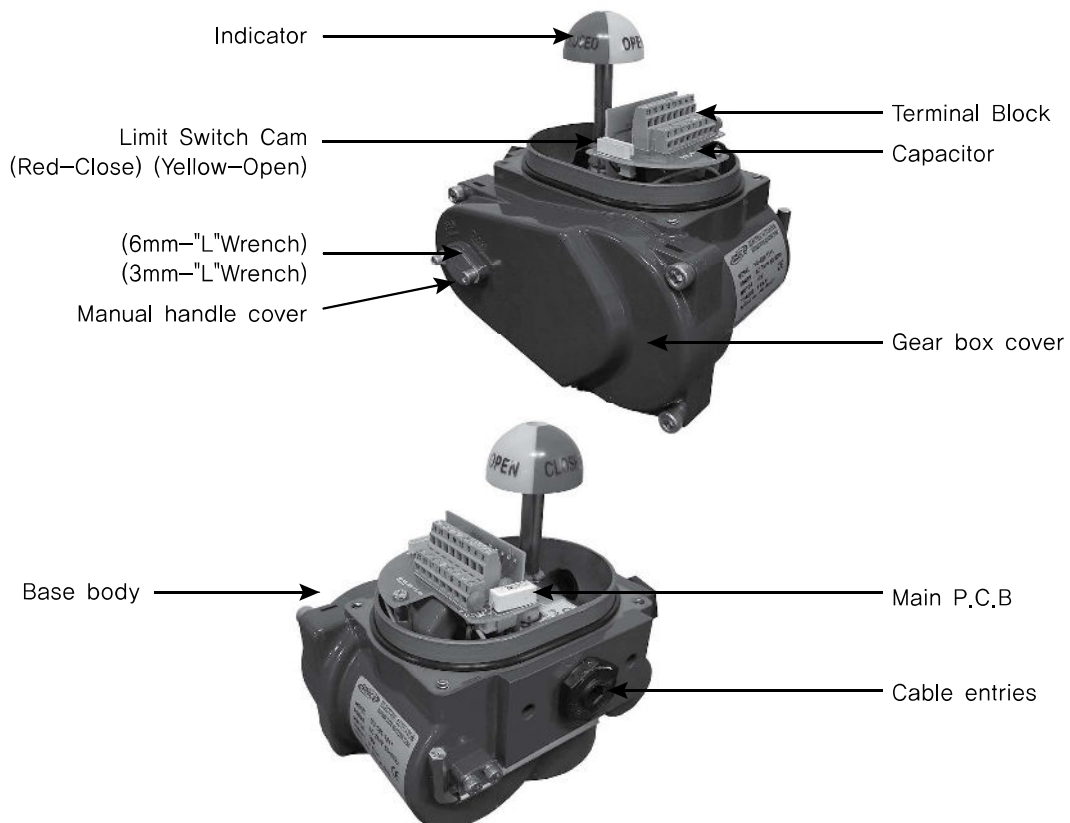
Quater-turn actuator GQ-006, 008, 10N



Features

- Compact designed
- Output torque : 6kg.m(60Nm), 8kg.m(80Nm), 10kg.m(100Nm)
- Manual handle
- Mounting base : standard ISO5211(F05,F07)
- Limit switches for easy setting
- Weather proof IP67(IP68 Optional))
- Standard color : Red or Blue

Construction



Performance

Model	Maximum Output torque	Operating Time(sec.) 50/60Hz	Mounting base (Double square Female shaft)	Rated current (A)			Duty Cycle IEC 34-1	Number of Handle turn	Weight
					1 Phase				
	Kg.m	90°	mm	DC 24V	AC 110V	AC 220V	S4(%)	N	Kg
GO-006	6	15/17	14x14mm	0.8	0.92	0.49	30	7	3.5
GQ-008	8	15/17	14x14mm	0.9	0.99	0.55	30	7	3.5
GQ-10N	10	15/17	14x14mm	1.0	1.03	0.58	30	7	3.5

Standard specifications

Enclosure	Weather proof enclosure IP67(IP68 Optional)
Power supply	110/220V AC 1 Phase 50/60Hz ±10%,
Control power supply	110/220V AC 1 Phase 50/60Hz ±10%
Duty cycle (on-off)	S2, Max 30Min
Duty cycle (modulating)	S4, 30% Max 1,600 c / hour
Motor	Induction motor (Reversible motor)
Limit switches	Open / close, SPDT, 250V AC 10A rating
Auxiliary limit switches	Open / close, SPDT, 250V AC 10A rating
Travel angle	90° ±5° (0~100°)
Indicator	Continuous mechanical indicator with arrow
Manual override	By wrench (M6) directly to the worm gear
Self locking	Provided by means of worm gearing
Mechanical stopper	2 x external adjustable screws
Space heater	2W (110/220V AC) anti-condensation
Cable entries	PF1/2"x 2
Lubrication	Grease (EP type)
Terminal block	Terminal block type
Materials	Aluminum alloy, Steel, Al bronze, Polycarbonate
Ambient temp.	-20°C ~ +70°C (except option electronic board)
Ambient humidity	90% RH Max. (non-condensing)

Table for available valves

Actuator \ Valve	Butterfly valve 10K, ANSI 150 #	2-Way ball valve 10K, ANSI 150 #	3-Way ball valve 10K, ANSI 150 #
GQ-006	40A~65A(2 1/2")	40A (1 1/2")	25A (1")
GQ-008	80A (3")	40A (1 1/2"), 50A	32A(1 1/4")
GQ-10N	100A(4")	50A(2")	40A(1 1/2")

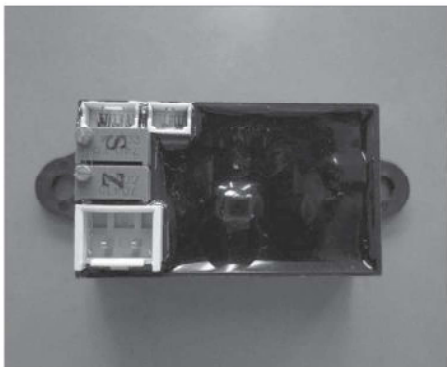
Electric ball valve(2-way)

PU	Potentiometer unit : output signal (0~1k Ω)
PTM	Position transmitter (output 4 ~ 20mA)
PCU	Proportional control unit



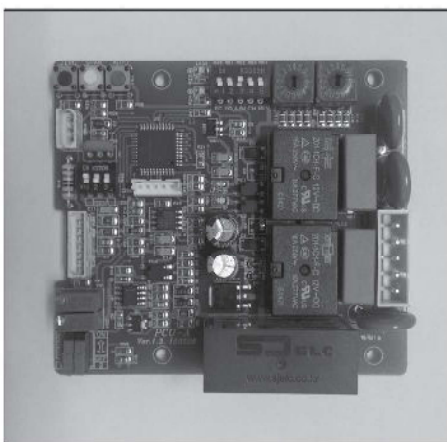
▶ Potentiometer Unit

- Small size ($\varnothing 16$)
- Output signal : 0 ~ 1k Ω
- Metal gear



▶ Position Transmitter

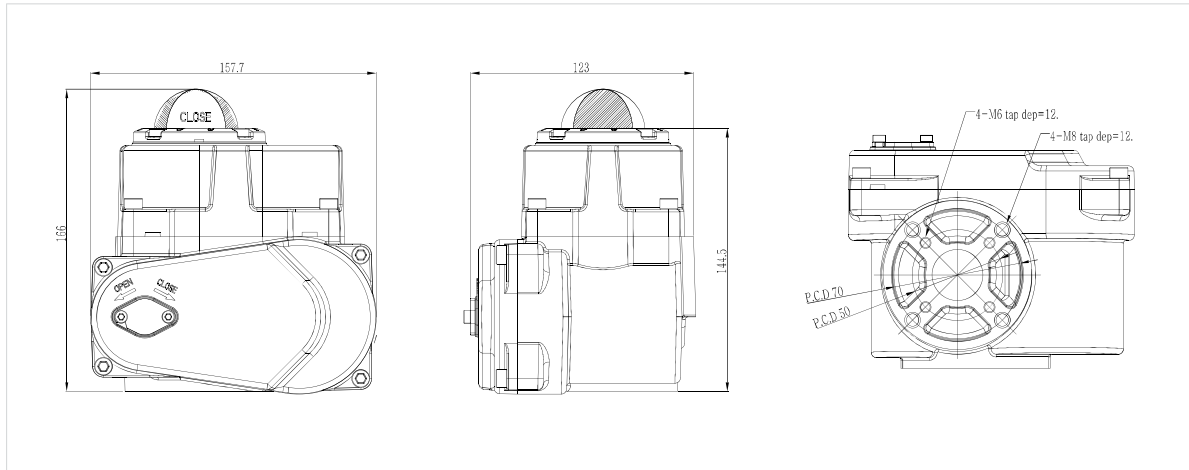
- Small and high performance
- Input : AC/DC 24V, AC 110/220V
- Output : 4 ~ 20mA
- Zero, span setting



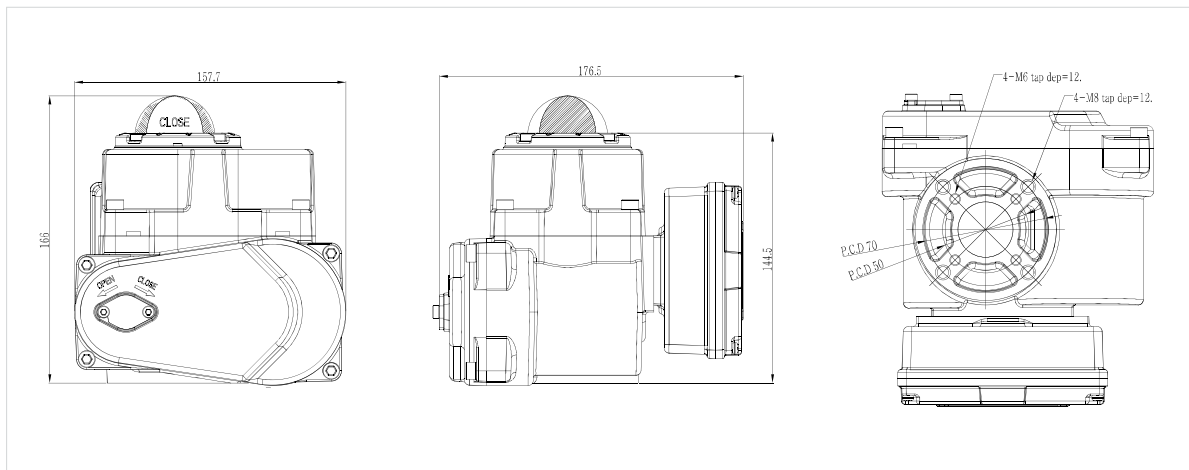
▶ Proportional Control Unit

- Power : 95 ~ 245VAC , 50/60Hz
4VA Max – Changeable by DIP switch
- Input signal : 4 ~ 20mA, 0 ~ 10VDC,
2 ~ 10VDC, 0 ~ 5VDC, 1 ~ 5VDC
- Output signal : 4 ~ 20mA, 0 ~ 10VDC,
2 ~ 10VDC, 0 ~ 5VDC, 1 ~ 5VDC
- Auto setting, dead band, delay time setting etc.

Shape dimension - ON/OFF type(GQ-006/008/10N)



Shape dimension - PTM & PCU type(GQ-006/008/10N)



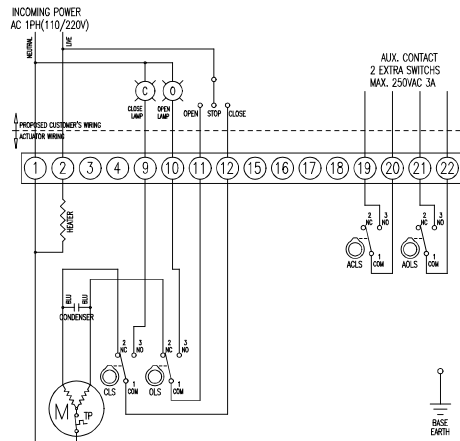
Standard

Model No.	Phase	Voltage[V]	Frequency[Hz]	Consumption Power [VA]
GQ-006, 008, 10N	1PH	24	50	62.16
			60	53.28
		110	50	64.9
			60	79.2
		220	50	55
			60	59.4

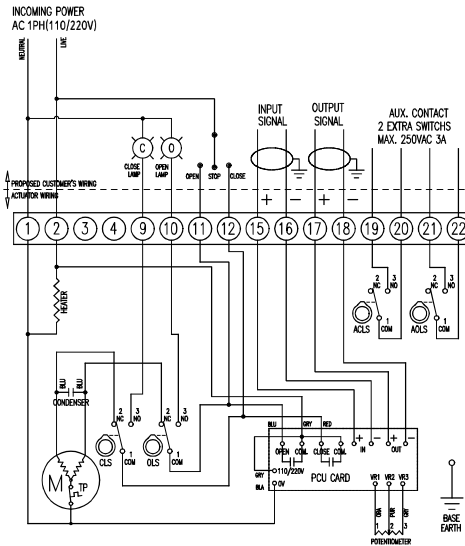
※ This table is for reference

Wiring diagram

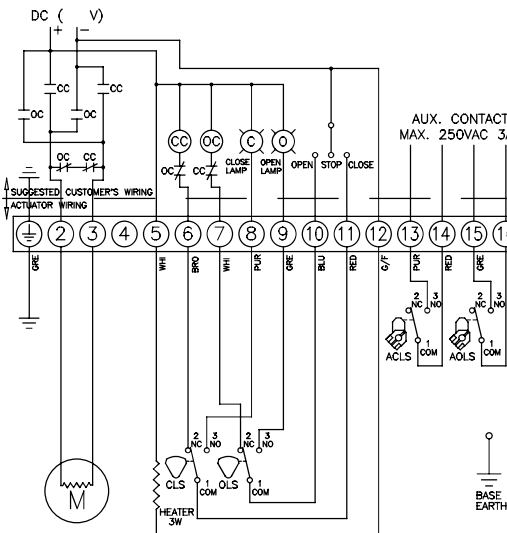
▶ 110V/220VAC(ON-OFF)



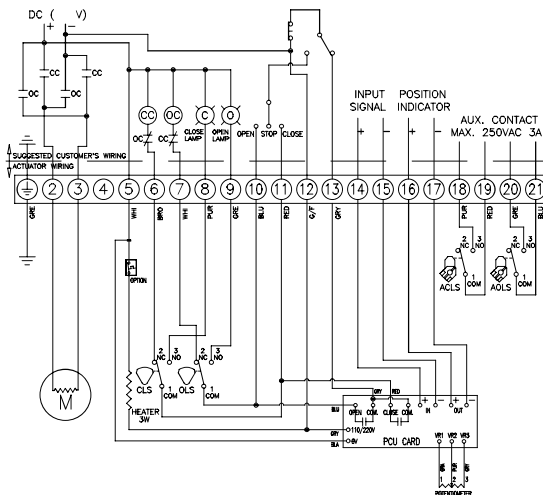
▶ 110V/220VAC(PCU)



▶ DC24V(ON-OFF)

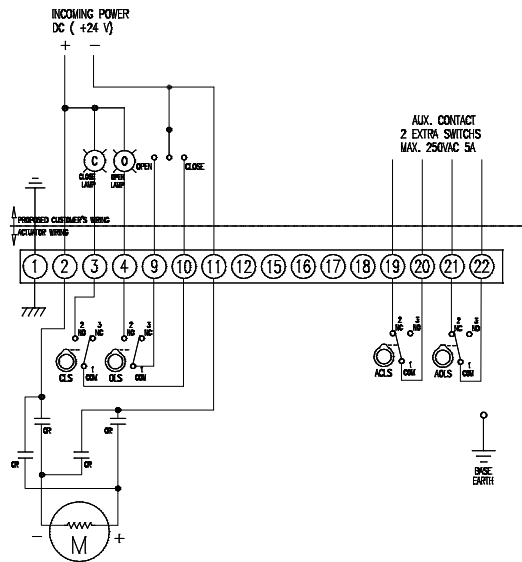


▶ DC24V(PCU)

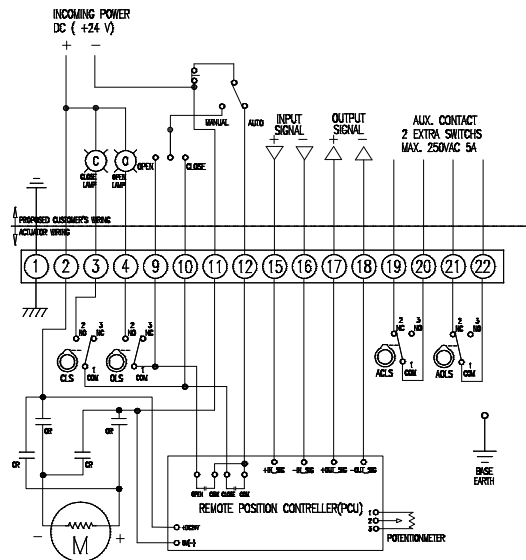


Wiring diagram

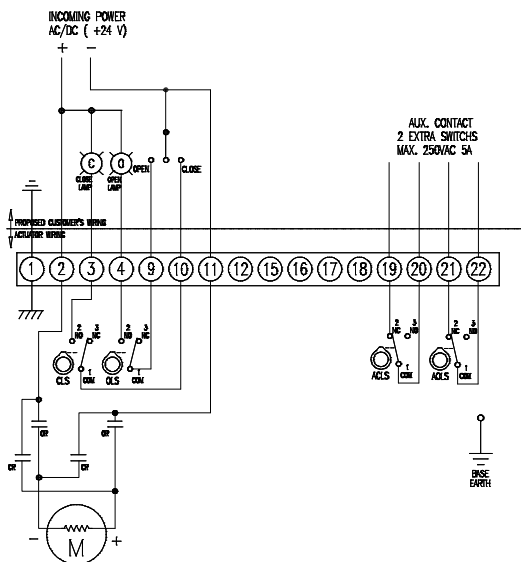
▶ DC24V(ON-OFF)Inner type



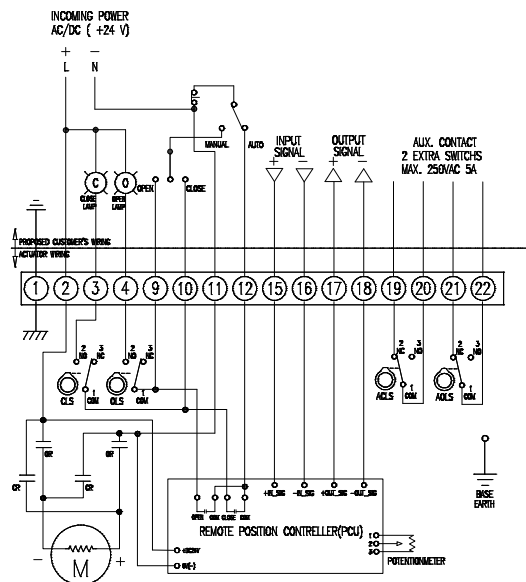
▶ DC24V(PCU)Inner type



▶ AC/DC24V(ON-OFF)



▶ AC/DC24V(PCU)



Order coding system

