



(Quarter turn)

ELECTRIC ACTUATOR

GQ - 001, 002, 004

High Speed Operating Time (3-7 sec)
Simple Position Indicator
Smart & Compact Design
With Manual Lever
Weatherproof (IP67)
3-Wire Type

DESCRIPTION

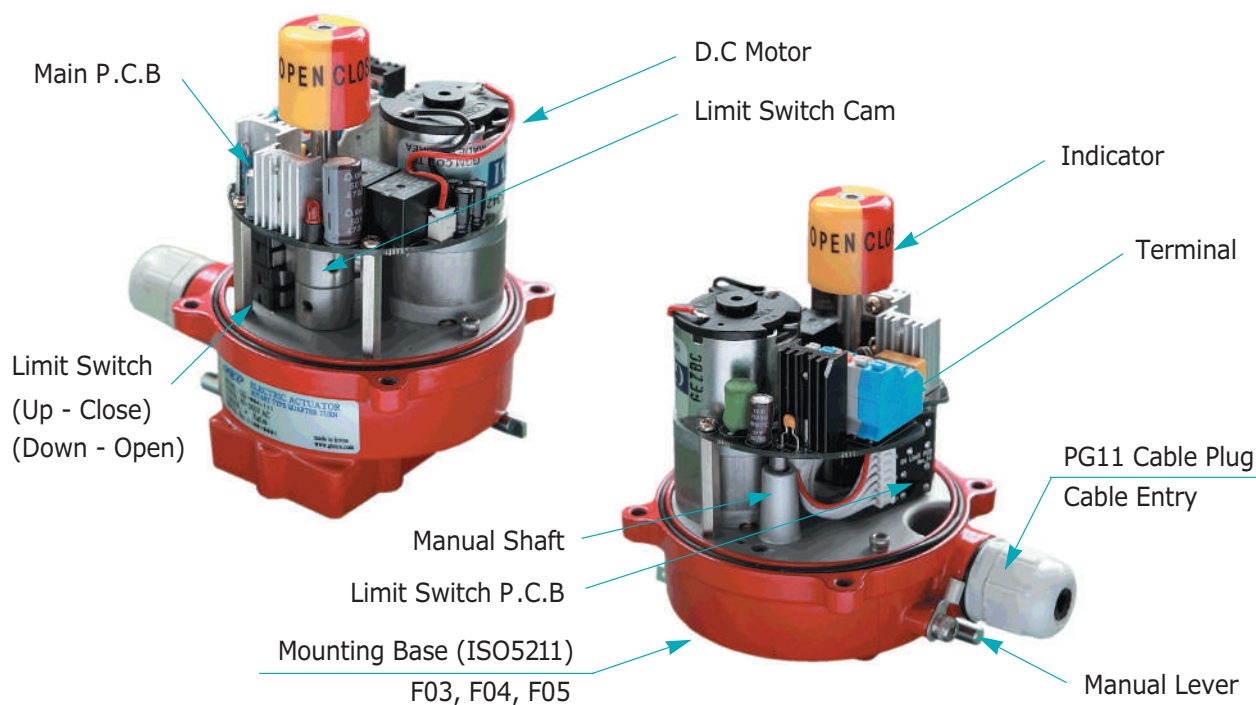
Electric actuator is specially designed for small size quarter turn valve operation such as Ball valves / Small dampers and similar usages.

FEATURES

- Free-Voltage : (95~245VAC / 1 PH)
(24VAC/DC) (12VAC/DC)
- Weather proof (IP67)
- Manual lever
- Mounting base : Standard ISO5211 (F03/F04/F05)

CONSTRUCTION

Actuator Appearance (INSIDE)



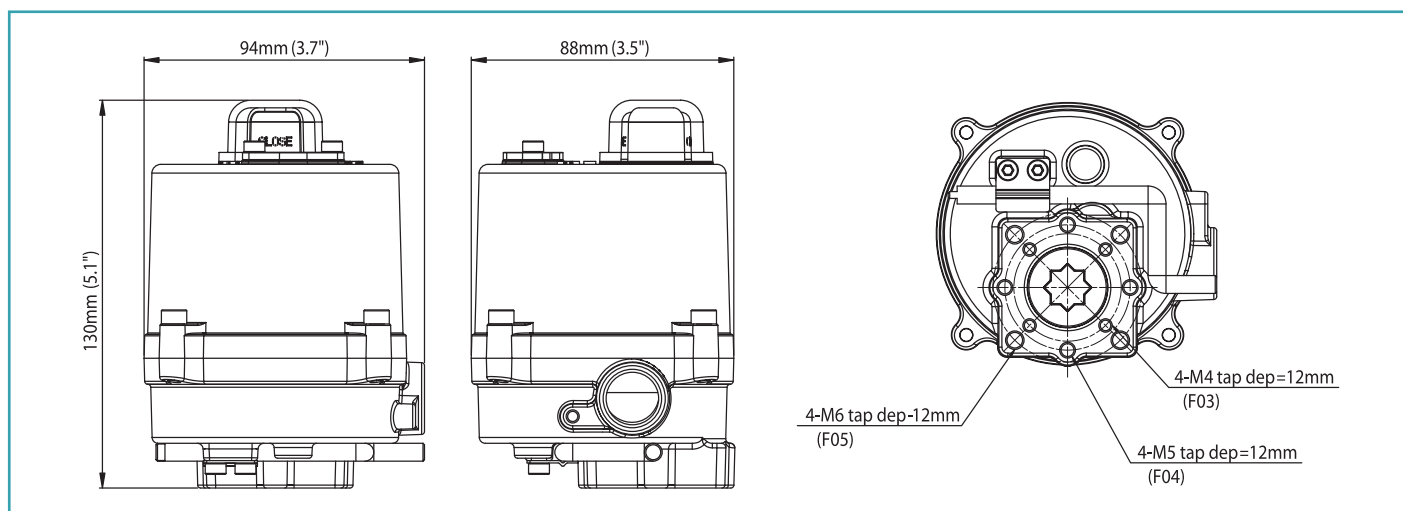
ORDERING SPECIFICATION

GQ				-	X	X	X	-	X	X	X	X
001 : 1.5kg.m								1 : 11x11				
002 : 2kg.m								2 : 14x14				
004 : 4kg.m								1 : ON-OFF (3-Wire)				
								2 : ON-OFF (4-Wire)				
								1 : 110V~220V AC / 1PH				
								2 : AC/DC 24V				
								3 : AC/DC 12V				
								1 : IP 67				

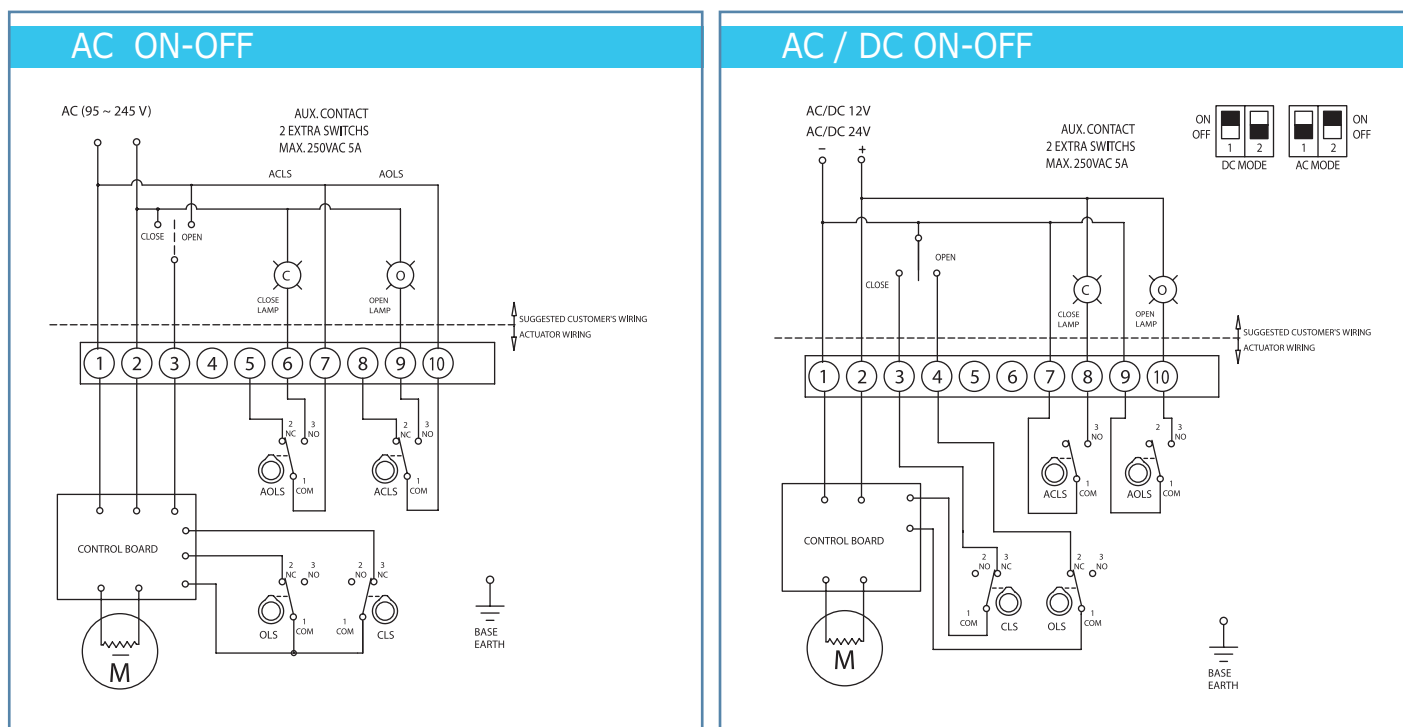
PERFORMANCE

Model	Output Torque		Operating Time 60/50Hz	Supplying power (60 / 50Hz, 1 phase)	Duty Cycle IEC 34- 1	Electric Motor Stop	Mounting (ISO 5211)	Lower Part Bore (mm)	Weight
	Kg.m	N.m	90°						
GQ - 001	1.5	15	3 sec	V1=95V ~245VAC (Free) V2=24V AC/DC V3=12V AC/DC	S2 70%	2A	F03, F04, F05	11 x 11	1.2Kg
GQ - 002	2	20	4 sec		S2 70%	2A	F03, F04, F05	14 x 14	1.2Kg
GQ - 004	4	40	7 sec		S2 70%	2A	F03, F04, F05	14 x 14	1.2Kg

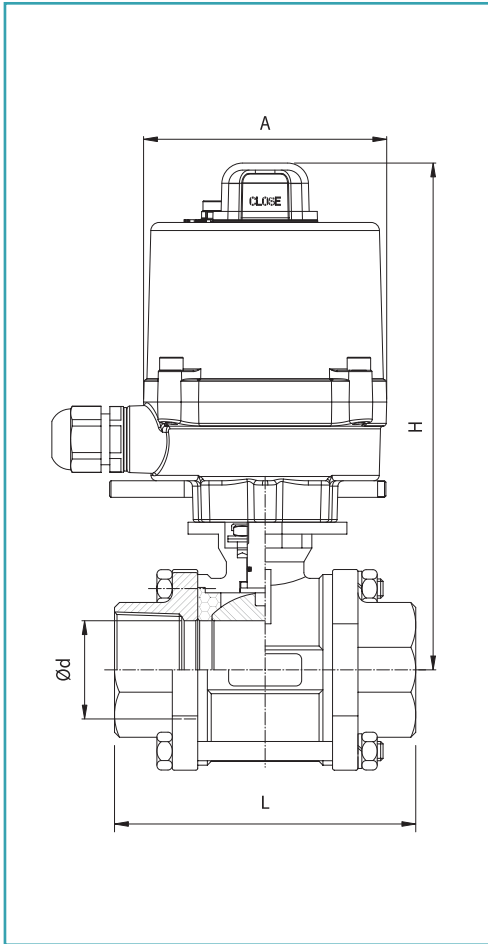
DIMENSION



CONNECTION WIRING (3-WIRE)



ELECTRIC BALL VALVE (2-WAY) : (3-PIECE)



Dimensions (3-Piece)

(Unit : mm)

SIZE		Ød	L	H	A	Body/Actuator	Stem (mm)	ISO5211 (PCD)	WT (Kg)	TORQUE
Inch	mm									N.m
1/4"	8A	11.6	63.5	166.9	94	DV23-08 / GQ-004	9	F03, 05	2.4	4
3/8"	10A	12.8	63.5	166.9	94	DV23-10 / GQ-004	9	F03, 05	2.4	4
1/2"	15A	15	63.5	166.9	94	DV23-15 / GQ-004	9	F03, 05	2.3	4
3/4"	20A	20	72.5	175	94	DV23-20 / GQ-004	9	F03, 05	2.5	6
1"	25A	25	81	183.4	94	DV23-25 / GQ-004	9	F03, 05	3.5	9.8
1-1/4"	32A	32	94.5	188.9	94	DV23-32 / GQ-004	11	F03, 05	4.0	16.4
1-1/2"	40A	38	108	204.7	94	DV23-40 / GQ-004	11	F05, 07	4.6	18.3
2"	50A	50	121.5	213.5	94	DV23-50 / GQ-004	14	F05, 07	6.5	25.8

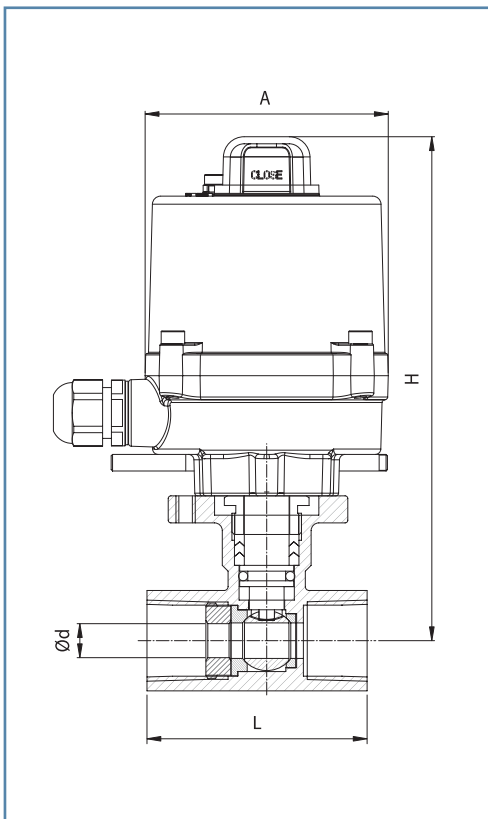
* 3-PIECE BODY - Max.Pressure : 70kg/cm² , Max.Temperature : 160°C, Material : A351-CF8M, Seat : PTFE

SIZE		Ød	L	H	A	Body/Actuator	Stem (mm)	ISO5211 (PCD)	WT (Kg)	TORQUE
Inch	mm									N.m
1/4"	8A	11.6	63.5	166.9	94	DV23-08 / GQ-002	9	F03, 05	2.4	4
3/8"	10A	12.8	63.5	166.9	94	DV23-10 / GQ-002	9	F03, 05	2.4	4
1/2"	15A	15	63.5	166.9	94	DV23-15 / GQ-002	9	F03, 05	2.3	4
3/4"	20A	20	72.5	175	94	DV23-20 / GQ-002	9	F03, 05	2.5	6
1"	25A	25	81	183.4	94	DV23-25 / GQ-002	9	F03, 05	3.5	9.8
1-1/4"	32A	32	94.5	188.9	94	DV23-32 / GQ-002	11	F03, 05	4.0	16.4

SIZE		Ød	L	H	A	Body/Actuator	Stem (mm)	ISO5211 (PCD)	WT (Kg)	TORQUE
Inch	mm									N.m
1/4"	8A	11.6	63.5	166.9	94	DV23-08 / GQ-001	9	F03, 05	2.4	4
3/8"	10A	12.8	63.5	166.9	94	DV23-10 / GQ-001	9	F03, 05	2.4	4
1/2"	15A	15	63.5	166.9	94	DV23-15 / GQ-001	9	F03, 05	2.3	4
3/4"	20A	20	72.5	175	94	DV23-20 / GQ-001	9	F03, 05	2.5	6
1"	25A	25	81	183.4	94	DV23-25 / GQ-001	9	F03, 05	3.5	9.8

* Model : DV23 (2 : 2-Way Ball Valve, 3 : 3-Piece)

ELECTRIC BALL VALVE (2-WAY) : (1-PIECE)



Dimensions (1-Piece)

(Unit : mm)

SIZE		Ød	L	H	A	Body/Actuator	Stem (mm)	ISO5211 (PCD)	WT (Kg)	TORQUE
Inch	mm									N.m
1/2"	15A	9.2	50	156	94	DV21-15 / GQ-004	9	F03, 04	1.9	2
3/4"	20A	12.5	60	162	94	DV21-20 / GQ-004	9	F03, 04	1.9	4
1"	25A	15	73	165	94	DV21-25 / GQ-004	11	F03, 04	2.0	5.7
1-1/4"	32A	20	78	168	94	DV21-32 / GQ-004	11	F05	2.2	6.8
1-1/2"	40A	25	89	172	94	DV21-40 / GQ-004	14	F05	2.8	8.5
2"	50A	32	100	180	94	DV21-50 / GQ-004	14	F05	3.1	12.4

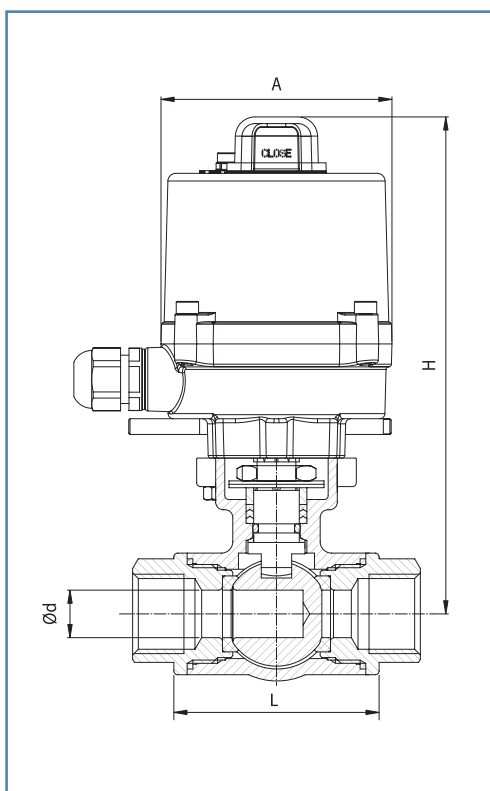
* 1-PIECE BODY - Max.1000PSI, Max.Temperature : 90°C, Material : A351-CF8, Seat : PTFE

SIZE		Ød	L	H	A	Body/Actuator	Stem (mm)	ISO5211 (PCD)	WT (Kg)	TORQUE
Inch	mm									N.m
1/2"	15A	9.2	50	156	94	DV21-15 / GQ-002	9	F03, 04	1.9	2
3/4"	20A	12.5	60	162	94	DV21-20 / GQ-002	9	F03, 04	1.9	4
1"	25A	15	73	165	94	DV21-25 / GQ-002	11	F03, 04	2.0	5.7
1-1/4"	32A	20	78	168	94	DV21-32 / GQ-002	11	F05	2.2	6.8
1-1/2"	40A	25	89	172	94	DV21-40 / GQ-002	14	F05	2.8	8.5

SIZE		Ød	L	H	A	Body/Actuator	Stem (mm)	ISO5211 (PCD)	WT (Kg)	TORQUE
Inch	mm									N.m
1/2"	15A	9.2	50	156	94	DV21-15 / GQ-001	9	F03, 04	1.9	2
3/4"	20A	12.5	60	162	94	DV21-20 / GQ-001	9	F03, 04	1.9	4
1"	25A	15	73	165	94	DV21-25 / GQ-001	11	F03, 04	2.0	5.7
1-1/4"	32A	20	78	168	94	DV21-32 / GQ-001	11	F05	2.2	6.8

* Model : DV21 (2 : 2-Way Ball Valve, 1 : 1-Piece)

ELECTRIC BALL VALVE (3-WAY)



Dimensions (1-Piece)

(Unit : mm)

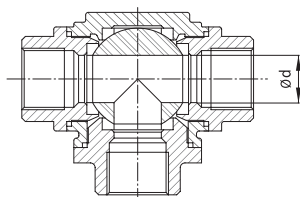
SIZE		Ød	L	H	A	Body/Actuator	Stem (mm)	ISO5211 (PCD)	WT (Kg)	TORQUE (N.m)
Inch	mm									
1/4"	8A	11	72	171	94	DV30-08 / GQ-004	9	F03, 04	1.9	9
3/8"	10A	11	72	171	94	DV30-10 / GQ-004	9	F03, 04	1.9	9
1/2"	15A	12	72	171	94	DV30-15 / GQ-004	9	F03, 04	2.1	9
3/4"	20A	15	83	174.3	94	DV30-20 / GQ-004	9	F03, 04	2.7	11
1"	25A	20	99	183.5	94	DV30-25 / GQ-004	11	F04, 05	3.4	13
1-1/4"	32A	25	112	189.2	94	DV30-32 / GQ-004	11	F04, 05	4.4	24

* BODY - Max. Pressure : 70kg/㎠ (1/4"~ 1 1/4"), 56kg/㎠ (1 1/2"~ 2")
Max. Temperature : 180℃, Material : A351-CF8M, Seat : PTFE /TFM

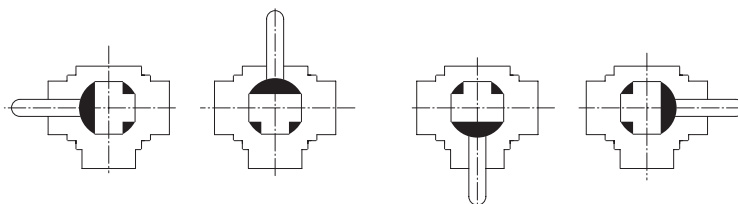
SIZE		Ød	L	H	A	Body/Actuator	Stem (mm)	ISO5211 (PCD)	WT (Kg)	TORQUE (N.m)
Inch	mm									
1/4"	8A	11	72	171	94	DV30-08 / GQ-002	9	F03, 04	1.9	9
3/8"	10A	11	72	171	94	DV30-10 / GQ-002	9	F03, 04	1.9	9
1/2"	15A	12	72	171	94	DV30-15 / GQ-002	9	F03, 04	2.1	9
3/4"	20A	15	83	174.3	94	DV30-20 / GQ-002	9	F03, 04	2.7	11
1"	25A	20	99	183.5	94	DV30-25 / GQ-002	11	F04, 05	3.4	13

SIZE		Ød	L	H	A	Body/Actuator	Stem (mm)	ISO5211 (PCD)	WT (Kg)	TORQUE (N.m)
Inch	mm									
1/4"	8A	11	72	171	94	DV30-08 / GQ-001	9	F03, 04	1.9	9
3/8"	10A	11	72	171	94	DV30-10 / GQ-001	9	F03, 04	1.9	9
1/2"	15A	12	72	171	94	DV30-15 / GQ-001	9	F03, 04	2.1	9

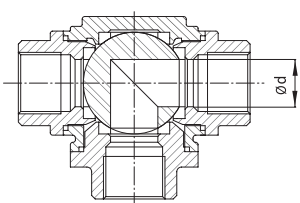
T - POSITION



T - POSITION 90° TURN



L - POSITION



L - POSITION 90° TURN

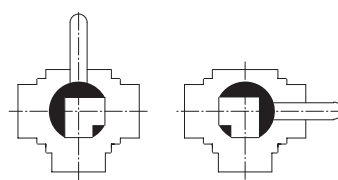


TABLE OF AVAILABLE VALVE SIZE FOR GQ-ACTUATOR

Valve Actuator	Actuator Torque (N.m)	2-Way Ball Valve 10K, ANSI 150#	Operating Time	3-Way Ball Valve 10K, ANSI 150#	Operating Time
GQ - 001	15	8A (1/4") ~ 25A (1")	3	8A (1/4") ~ 15A (1/2")	3
GQ - 002	20	8A (1/4") ~ 32A (1 1/4")	4	8A (1/4") ~ 25A (1")	4
GQ - 004	40	8A (1/4") ~ 50A (2")	7	8A (1/4") ~ 32A (1 1/4")	7

참조) 밸브 제작사마다 토크가 차이가 있으므로 위의 선정표가 다를 수도 있습니다.

The above specification can be changed as difference torque per each valve manufacturer.



www.ginice.co.kr
www.ginice.com



(Quarter turn)

ELECTRIC ACTUATOR

GQ - 006,008

지니스 코리아

우) 420-857 경기도 부천시 원미구 춘의동 202-4 지니스빌딩
전화 : 032-666-9946 | 팩스 : 032-666-9949 | E-mail : ginicegood@ginice.co.kr

GINICE KOREA

GINICE Bldg., #202-4, Chuneui-Dong, Wonmi-Gu, Bucheon-City, Gyeonggi-Do, Korea. (zip) 420-857
TEL : +82-32-666-9946 | FAX : +82-32-666-9949 | E-mail : ginicegood@ginice.co.kr

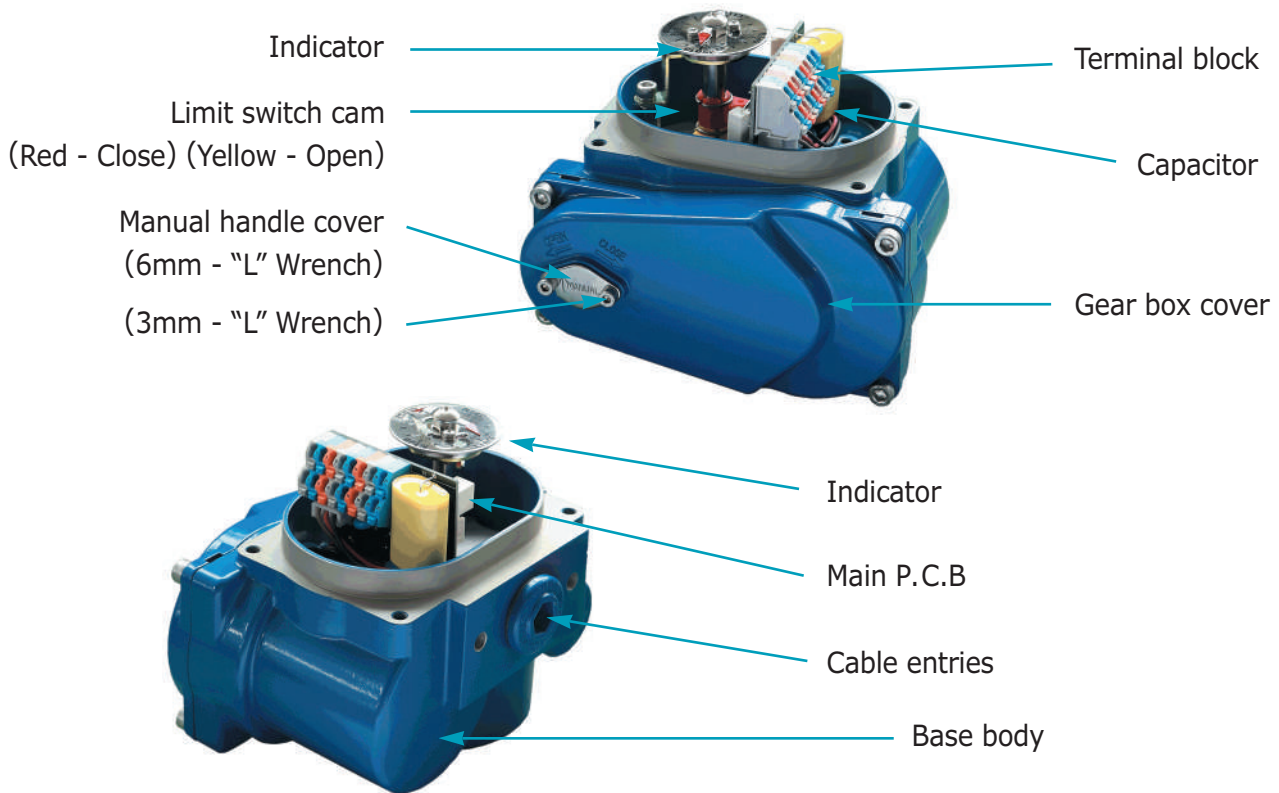
GINICE FACTORY

3-39, Songma-li, Daegot-myeon, Kimpo-city, Gyeonggi-Do, Korea.



GINICE KOREA

CONSTRUCTION (INSIDE)



FEATURES

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

ORDERING SPECIFICATION

GQ		-		X		X		X		-		X		X		X		X	
												</							

■ PERFORMANCE

Model	Maximum output torque	Operating time(sec.) 60 / 50 Hz	Adaption (Double square Female shaft)	Rated current (A)			Duty cycle IEC34-1	Number of handle turn	Weight
	kg.m	90°	mm	DC 24V	1 Phase		S4 (%)	N	kg
					AC110V	AC 220V			
GQ-006	6	15/17	14x14mm	0.8	0.92	0.49	70	7	3.5
GQ-008	8	15/17	14x14mm	0.9	0.99	0.55	70	7	3.5

■ STANDARD SPECIFICATION

Enclosure	Weather proof enclosure IP67
Power supply	110V or 220V AC 1 Phase 50/60Hz $\pm 10\%$, DC 24V
Control power supply	110V or 220V AC 1 Phase 50/60Hz $\pm 10\%$
Duty cycle (on-off)	S2, 100% Max 30Min
Duty cycle (modulating)	S4, 70% Max 1,600 c / hour
Motor	Induction motor (Reversible motor)
Limit switches	Open / close, SPDT, 250V AC 3A rating
Auxiliary limit switches	Open / close, SPDT, 250V AC 3A rating
Travel angle	$90^\circ \pm 5^\circ$ (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 or 220V AC) anti-condensation
Cable entries	PF $\frac{3}{4}$ " x 2
Lubrication	Grease (EP type)
Terminal block	Spring loaded lever push type
Materials	Aluminum alloy, Steel, Al bronze, Polycarbonate
Ambient temp.	- 20°~ +70°C (expect option electronic board)
Ambient humidity	90% RH Max. (non-condensing)

GQ-006, GQ-008



OPTION SPECIFICATION

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



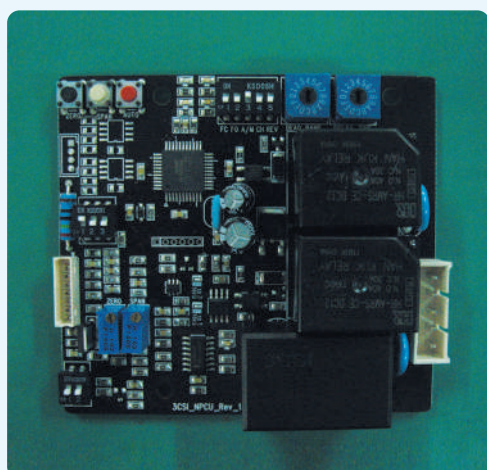
► Potentiometer Unit

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



► Position Transmitter

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



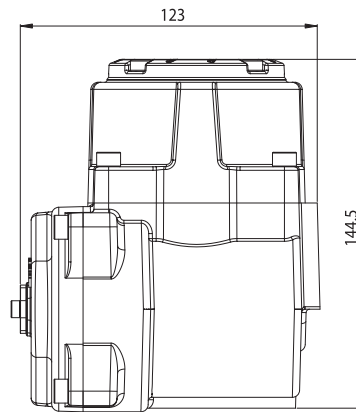
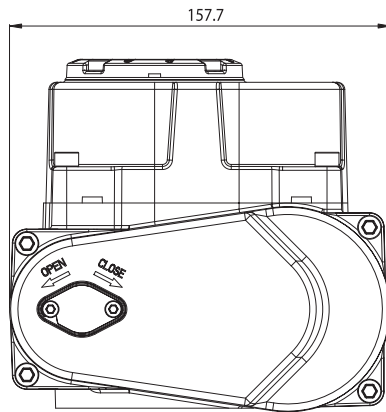
► Proportional Control Unit

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

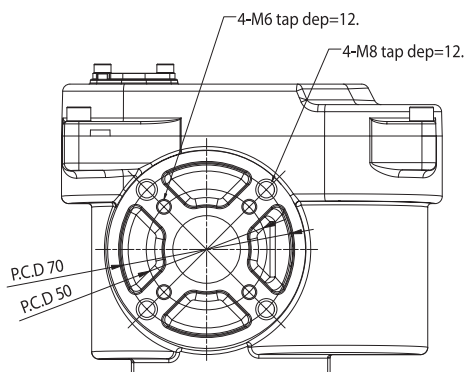


GINICE KOREA

BASIC DIMENSIONS (GQ-006/008) - on/off TYPE

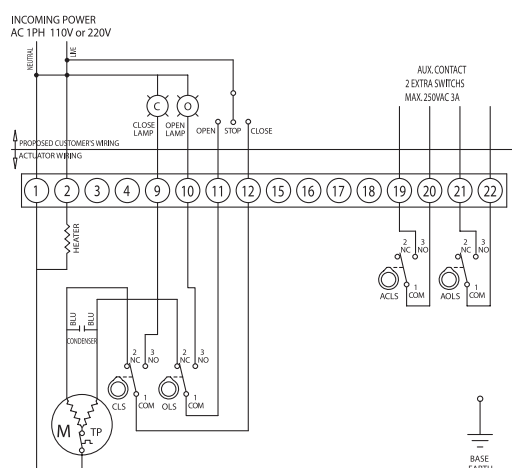


FLANGE :
ISO5211 (F05,F07)
SHAFT HOLE :
14x14mm

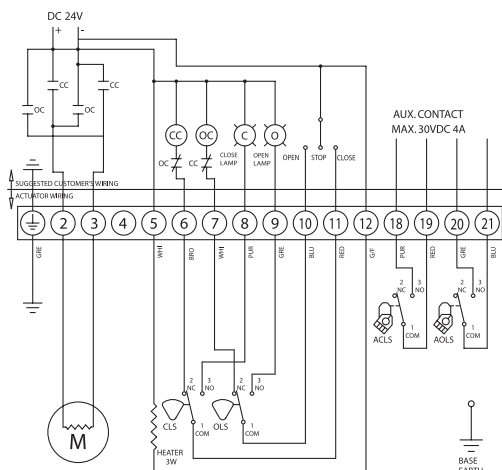


TYPICAL WIRING (GQ-006/008)

AC ON-OFF



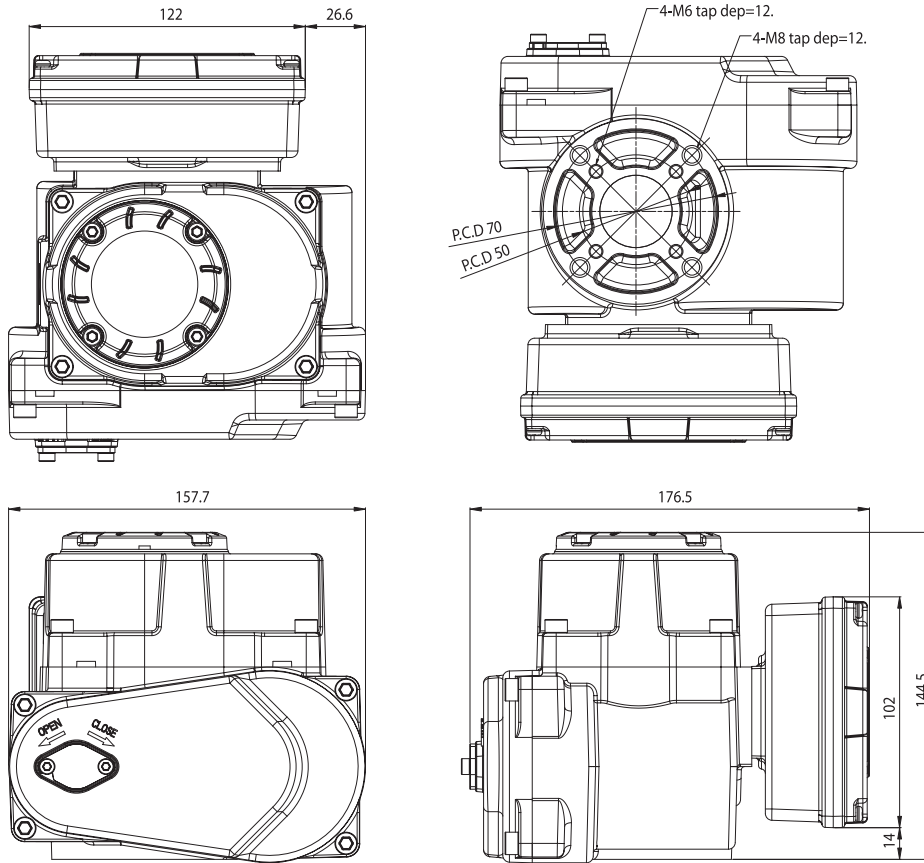
DC ON-OFF



GQ-006, GQ-008



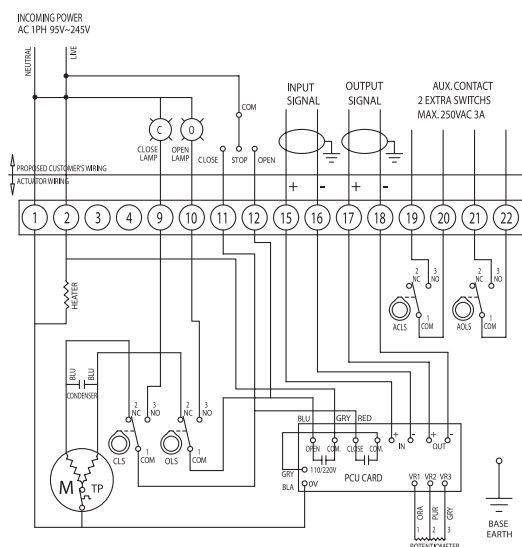
BASIC DIMENSIONS (GQ-006/008) - P.T.M&P.C.U

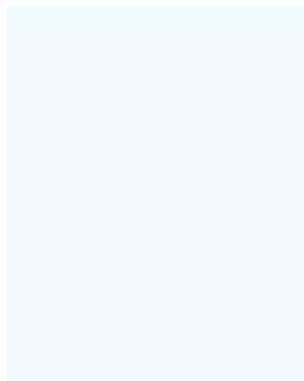
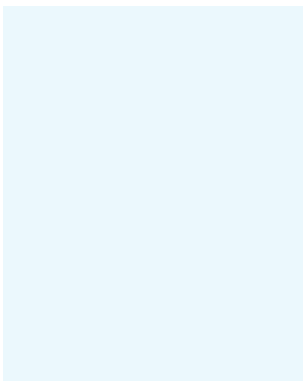


FLANGE :
ISO5211(F05,F07)
SHAFT HOLE :
14x14mm

TYPICAL WIRING (GQ-006/008)

비례식 PCU





ELECTRIC ACTUATOR

Quarter turn type GQ series

GQ-010 ~ 300



ELECTRIC ACTUATOR

QUARTER TURN TYPE

○ DESCRIPTION

GQ series electric actuator is specially.

Designed for quarter turn operating.

Applications such as Ball, Butterfly, Plug Valves, Dampers and similar usages.

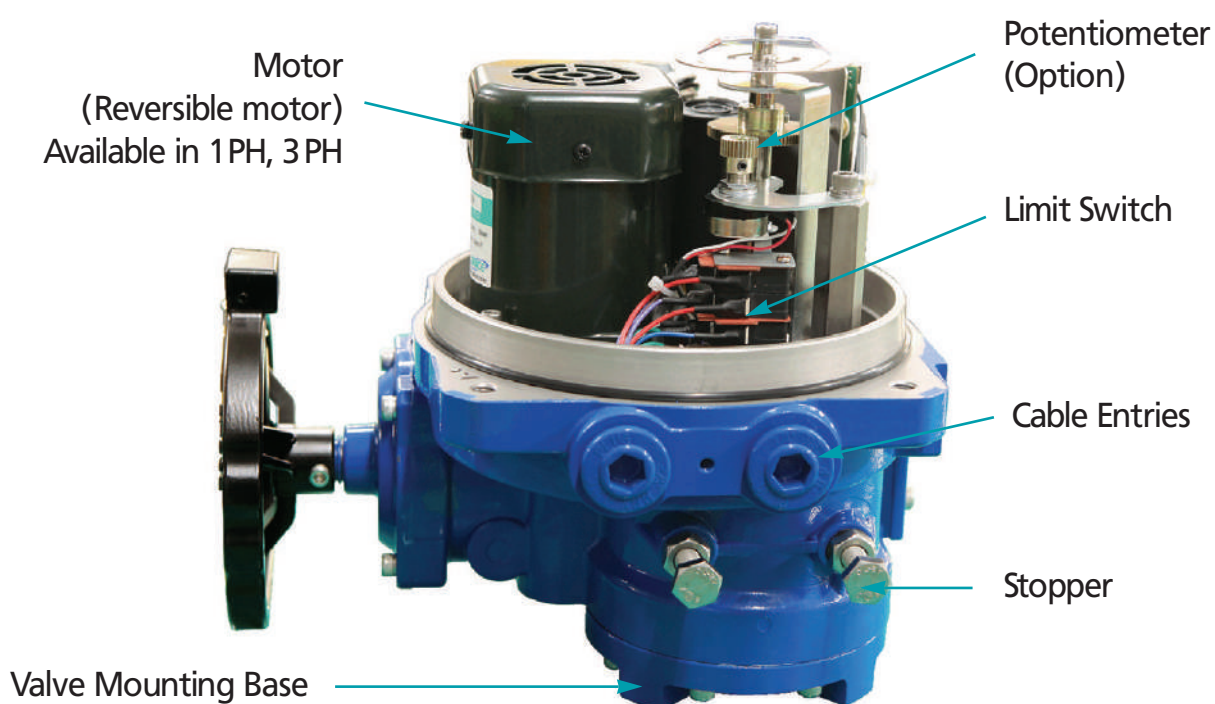
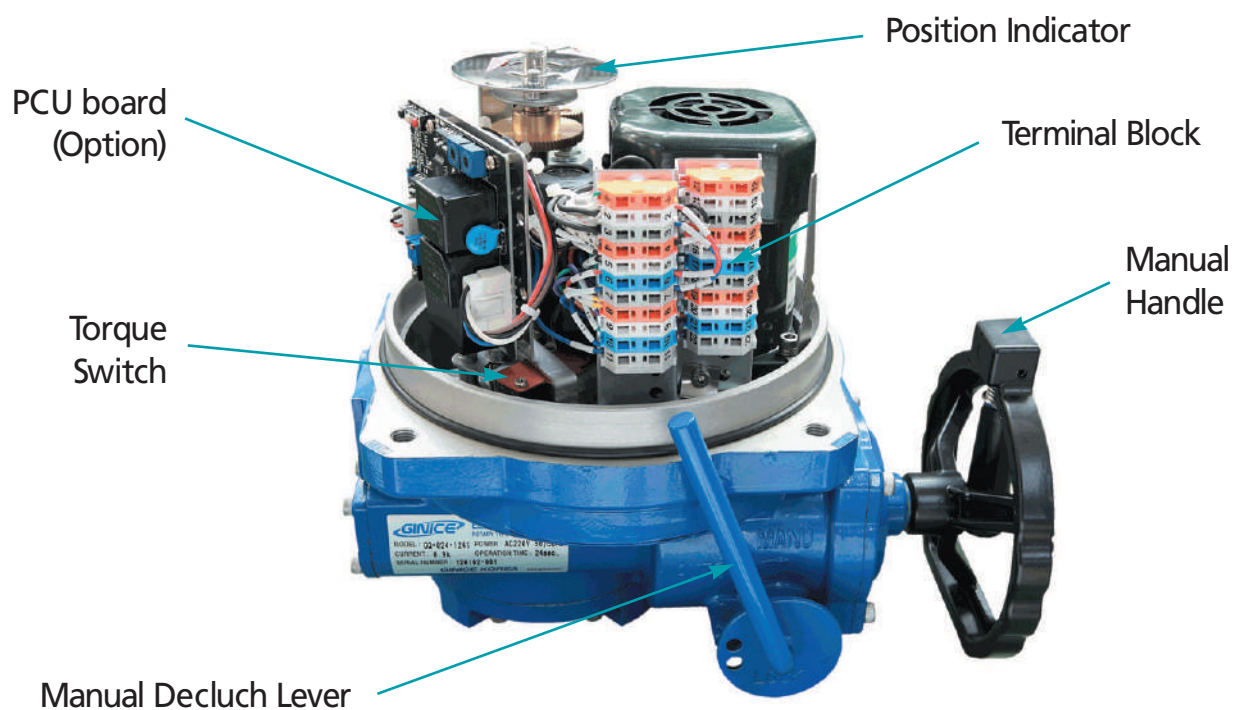
○ FEATURES

- Compact and not heavy due to high grade Aluminum alloyed housing.
- Hard anodizing for High corrosion resistance on inside & outside.
- Various output torque from 100Nm to 3000Nm.
- Wide range of Voltage.
- Self locking function in the transmission.
- Manual operation Hand-Wheel engaged by Manual / Auto lever arranged for power drive folding Handle. (Space-Saving & Protection from Impact)
- Standard Mounting. (ISO 5211)
- Standard 4 limit switches. (2 for operation, 2 for extra (Dry contacts))
- Torque switches. (GQ-016~300)
- Space heater with thermostat for preventing overheat.
- Removable drive bushing with under hung for easy machining and tight connection.





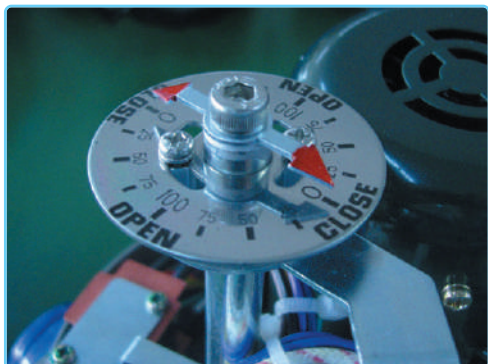
CONSTRUCTION



ELECTRIC ACTUATOR

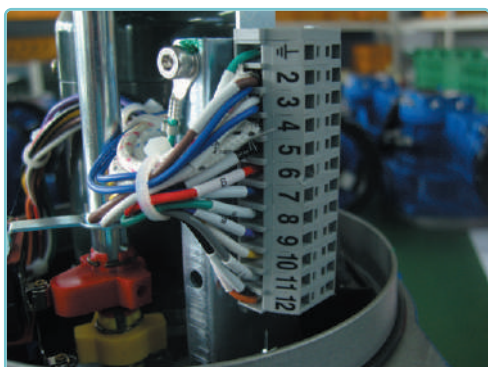
QUARTER TURN TYPE

o STANDARD CONFIGURATION



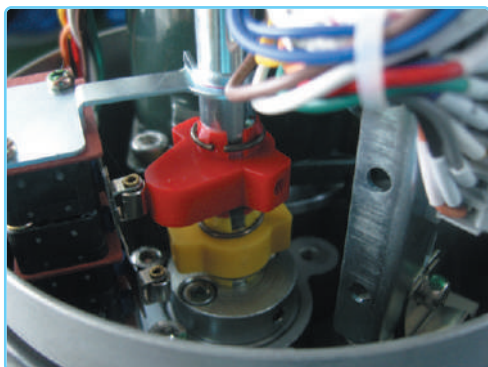
Indicator

- Easy indicator correction by adjustment of bolt on the top
- Indicate plate : $\pm 45^\circ\text{C}$



Terminal Block

- Spring loaded push type terminal for tight wiring
- Rated voltage / current : 300V / 10A
- Solid and stranded wire : 16~28 AWG
- Wire strip length : 8~10mm
- Insulating with stand voltage : 6KV



Limit Switch

- 4 SPDT switch
- Easy "Setting" by "L-Wrench" & Small screw-driver
- 8 - SPDT Switch (GQ-016~300)
- Hand Setting



Manual Handle

- Folding Handle
- Space-Saving & Protection from Impact



○ STANDARD SELECTION GUIDE OF 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 ½")	40A (1 ½")	25A (1")
GQ-008	80A (3")	40A (1 ½"), 50A	32A (1 ¼")
GQ-010	100A (4")	50A (2")	40A (1 ½")
GQ-016	125A, 150A (6")	50A, 65A (2 ½")	50A (2")
GQ-024	200A (8")	80A (3")	65A (2 ½")
GQ-035	250A (10")	100A (4")	80A (3")
GQ-050	300A (12")	125A (5")	100A (4")
GQ-080	350A (14")	150A (6")	125A (5")
GQ-110	400A (16")	200A (8")	150A (6")
GQ-200	450A (18"), 500A	250A (10")	200A (8")
GQ-300	600A (24")	300A (12")	250A, 300A (12")

참조) 밸브 제작사마다 토크가 차이가 있으므로 위의 선정표가 다를 수도 있습니다.

The above specification can be changed as difference torque per each valve manufacturer.

○ ORDER CODING SYSTEM

G Q - X X X - X X X X

(Torque)

010 : 10kg.m
016 : 16kg.m
024 : 24kg.m
035 : 35kg.m
050 : 50kg.m
080 : 80kg.m
110 : 110kg.m
200 : 200kg.m
300 : 300kg.m

1 : 90°
2 : 120°
3 : 135°
4 : 180°
5 : 270°

1 : Standard (on-off)
2 : PU (Potentiometer Unit)
3 : PTM (Position Transmitter)
4 : PCU (Proportional Control Unit)
5 : ALS (Additional Limit Switches)
6 : ATS (Additional Torque Switches)
7 : LCU (Local Control Unit)

1 : 110V AC / 1Ph
2 : 220V AC / 1Ph
3 : 220V AC / 3Ph
4 : 380V AC / 3Ph
5 : 440V AC / 3Ph
6 : 460V AC / 3Ph
7 : 24V AC / 1Ph (GQ - 010 Only)

1 : Weather proof, IP 67
2 : Watertight, IP 68

ELECTRIC ACTUATOR

QUARTER TURN TYPE

TECHNICAL DATA

Model	Maximum output torque	Operating time (sec.) 60 / 50 Hz	Maximum bore size	Rated current (A) 60/50Hz				Duty cycle IEC 34-1	Number of handle turn	Weight
				1 Phase		3 Phase				
	kg-m	90°	mm	110V	220V	380V	440V	S4 (%)	N	kg
GQ-010	10	18 / 21	ø20	1.10 / 0.98	0.58 / 0.52	–	–	70	10	7
GQ-016	16	21 / 25	ø25	1.70 / 1.60	0.90 / 0.85	0.30 / 0.35	0.32 / 0.50	70	12	15
GQ-024	24	21 / 25	ø25	1.72 / 1.62	0.90 / 0.87	0.32 / 0.37	0.35 / 0.57	70	12	15
GQ-035	35	26 / 31	ø40	1.80 / 1.72	0.95 / 0.92	0.32 / 0.37	0.32 / 0.50	70	14	20
GQ-050	50	26 / 31	ø40	3.90 / 3.60	1.60 / 1.50	0.56 / 0.52	0.58 / 0.55	70	14	20
GQ-080	80	32 / 39	ø48	4.20 / 3.90	2.20 / 2.05	0.88 / 0.82	0.88 / 0.82	70	17	25
GQ-110	110	32 / 39	ø48	4.30 / 3.90	2.30 / 2.15	0.90 / 0.84	0.88 / 0.84	70	17	25
GQ-200	200	50 / 59	ø75	–	3.15 / 2.95	1.80 / 1.50	2.20 / 2.30	70	23	70
GQ-300	300	50 / 59	ø75	–	3.85 / 3.75	2.00 / 1.60	2.40 / 2.50	70	23	70

※ GQ-010 모델은 24VAC 제작 가능함.
GQ-010 is available for 24VAC.

STANDARD SPECIFICATION

Enclosure	Weatherproof enclosure IP67 (IP68 OPTIONAL)
Power supply	110/220V AC 1 Phase 50/60Hz, 380/440V AC 3 Phase 50/60Hz, ±10%
Control power supply	110/220V AC 1 Phase 50/60Hz, ±10%
Duty cycle (on-off)	S2, 100% Max 30Min
Duty cycle (modulating)	S4, 70% Max 300~1,600 start / hour
Motor	Induction motor (Reversible motor)
Limit switches	Open / close, SPDT, 250V AC 16A rating
Additional limit switches	Open / close, SPDT, 250V AC 16A rating (Except for GQ-010)
Torque switches	Open / close, SPDT, 250V AC 16A rating (Except for GQ-010)
Stall protection/operating temp.	Built-on thermal protection, open 150°C ± 5°C / close 97°C ± 15°C
Travel angle	90° ± 5° (0 ~ 100°)
Indicator	Continuous mechanical indicator with arrow
Manual override	Declutching mechanism
Self locking	Provided by double worm gearing
Mechanical stopper	2 each external adjustable screws
Space heater	10W (110/220V AC) anti-condensation
Cable entries	Three PF 3/4" tap
Lubrication	Grease Moly (EP type)
Terminal block	Spring loaded lever push type
Materials	Aluminum alloy, Steel, Al bronze, Polycarbonate
Ambient temperature	-20°C ~ +70°C (except option electronic board)
Ambient humidity	90% RH Max. (non-condensing)
Anti vibration	X, Y, Z 9g, 0.2~34Hz, 30min.



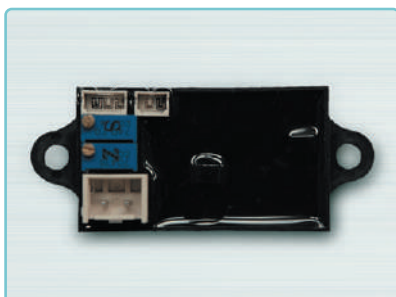
○ OPTION SPECIFICATION

WE	Watertight enclose actuator. (IP 68, 10m 100hour)
PU	Potentiometer unit. (1K Ω)
PTM	Position transmitter. (Output 4~20mA)
PCU	Proportional control unit. (Input / Output 4-20mA or 0-10VDC or 1-5VDC)
ALS	Additional limit switches. (SPDT X 2EA 250V AC 10A Rating)
ATS	Additional torque switches.
LCU	Local Control Unit. (Remote / Local, Open / Stop / Close Selector Switch with Lamps)
EX	Extension 120°, 135°, 180°, 270° turn.



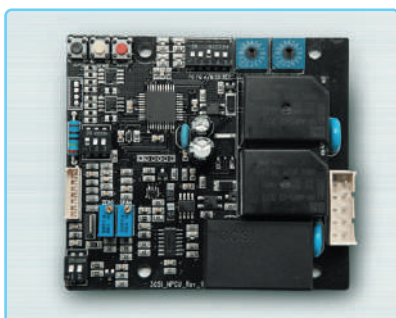
Potentiometer Unit

- Small size
- Range : 0~1K Ω
- Metal gear



Position Transmitter

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



Proportional Control Unit

- Power : 85 ~ 280VAC $\pm 10\%$, 50/60Hz $\pm 2\%$,
4VA Max - Changeable by DIP switch
- Input signal : 4~20mA DC, 1~5V DC, 2~10V DC, 0~5V DC, 0~10V DC
- Output signal : 4~20mA DC, 1~5V DC, 2~10V DC, 0~5V DC, 0 ~10V DC
- Auto setting, dead band, delay time setting etc.



LCU (Local Control Unit)

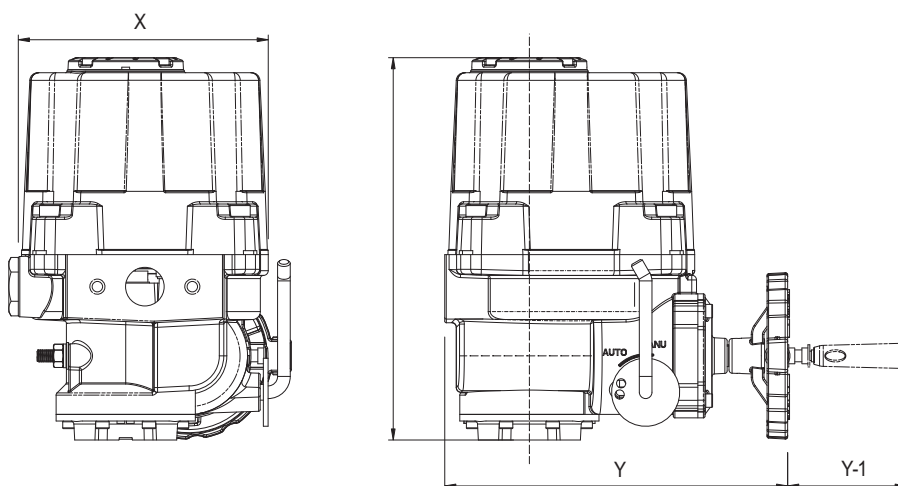
- A small unit that is mounted to the actuator to operate the valve's position in local.
- Local / Remote switch
- Open / Stop / Close selector switches with lamps

ELECTRIC ACTUATOR

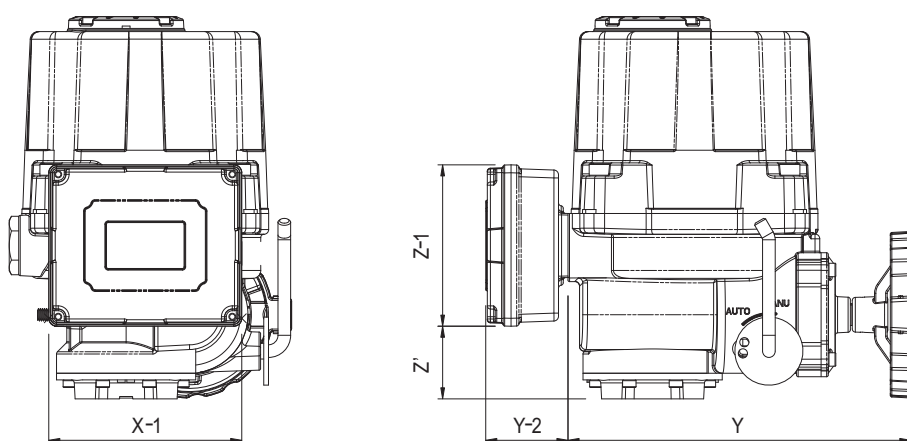
QUARTER TURN TYPE

○ BASIC DIMENSIONS (GQ-010)

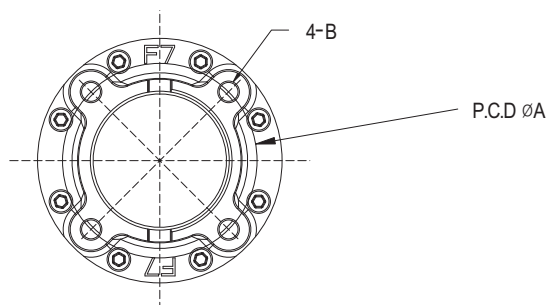
On/Off



Modulating (with PCU)



Valve Mounting (Base ISO 5211)

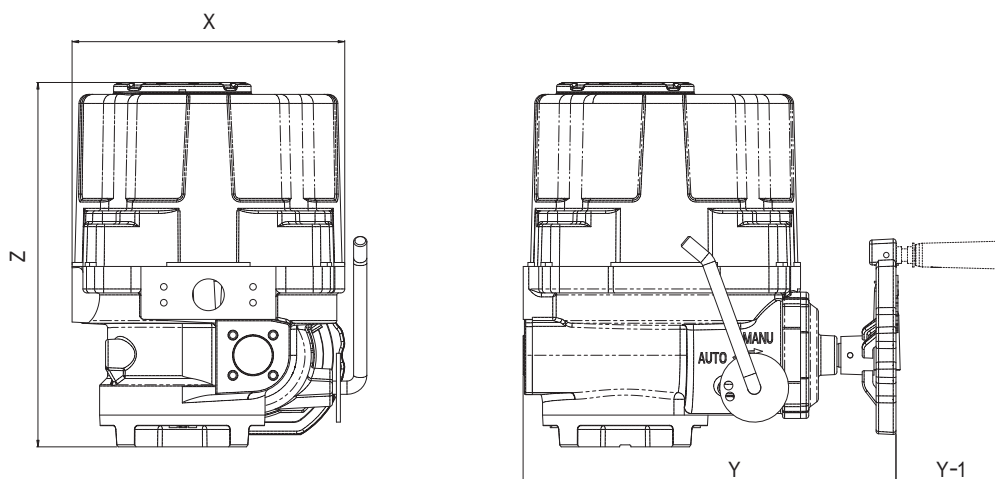


Model	ØA	B	X	X-1	Y	Y-1	Y-2	Z	Z'	Z-1
GQ-010	70	M8 / 15	158	122	217	75	52	242	46	102



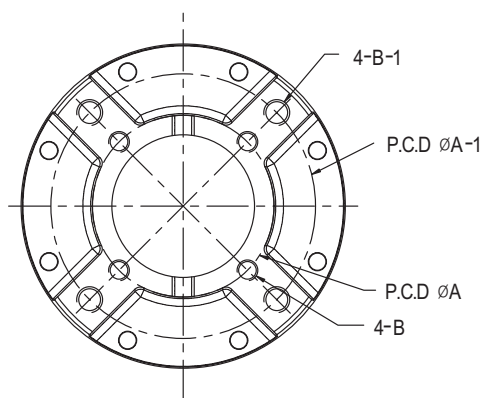
○ BASIC DIMENSIONS (GQ-016~300)

On/Off, Modulating (with PCU)

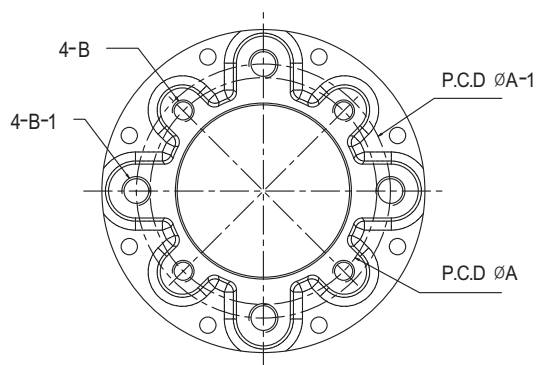


Valve Mounting (Base ISO 5211)

GQ - 016 ~ 050



GQ - 080 ~ 300



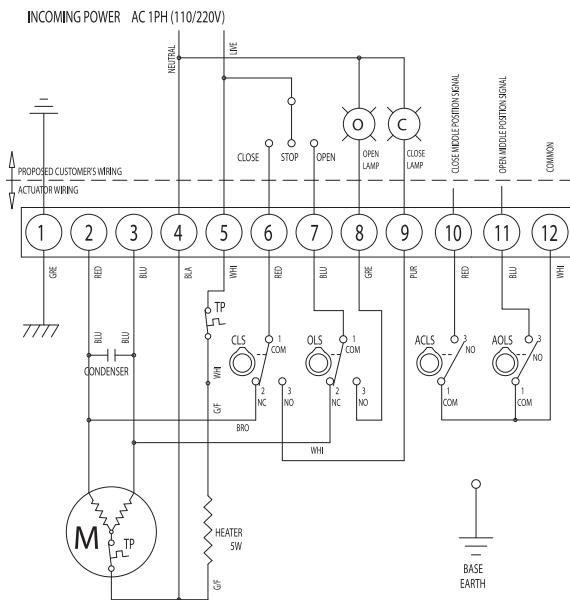
Model	ØA	ØA-1	B	B-1	X	Y	Y-1	Z
GQ-016	70	102	M8 / 12	M10 / 15	206	282	80	276
GQ-024	70	102	M8 / 12	M10 / 15	206	282	80	276
GQ-035	102	125	M10 / 15	M12 / 18	222	295.5	80	294
GQ-050	102	125	M10 / 15	M12 / 18	222	295.5	80	294
GQ-080	125	140	M12 / 18	M16 / 24	239	310	80	326
GQ-110	125	140	M12 / 18	M16 / 24	239	310	80	326
GQ-200	-	165	-	M20 / 30	307	401	100	394
GQ-300	-	165	-	M20 / 30	307	401	100	394

ELECTRIC ACTUATOR

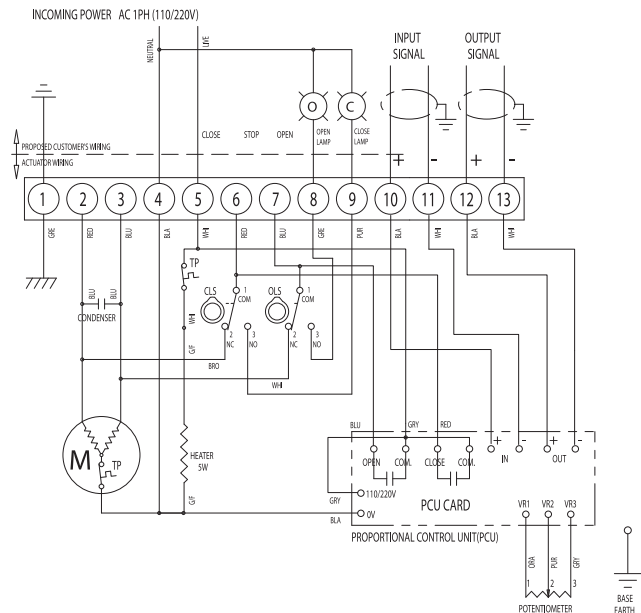
QUARTER TURN TYPE

o TYPICAL WIRING (GQ-010)

110/220VAC 50/60Hz (On/Off)



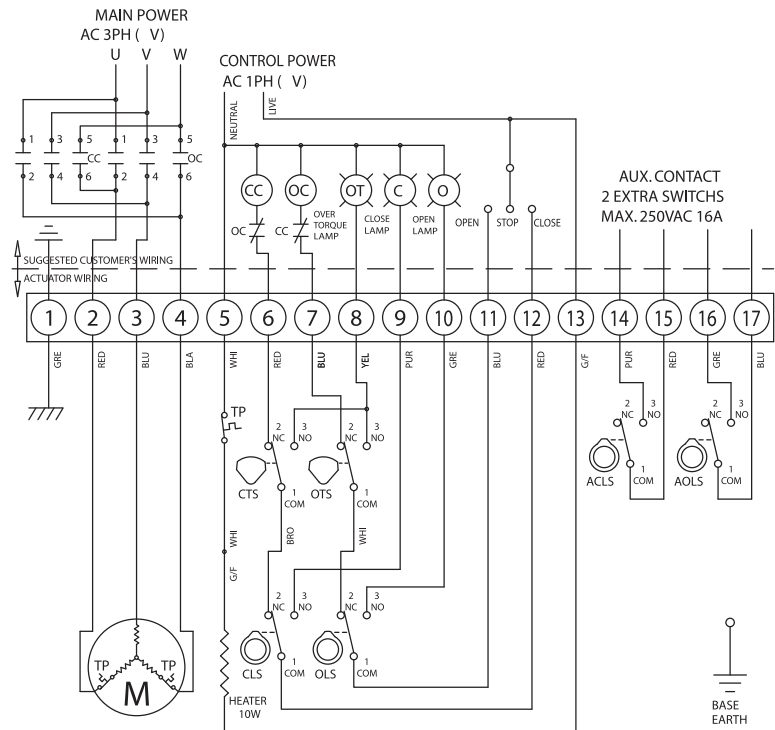
110/220VAC 50/60Hz (PCU option)



Torque and Limit Switches Operation

SWITCH	CLOSE ← INTERMEDIATE → OPEN
CLS 1-2	
CLS 1-3	
OLS 1-2	
OLS 1-3	
ACLS 1-2	
ACLS 1-3	
AOLS 1-2	
AOLS 1-3	
CTS 1-3	* CLOSING TORQUE SWITCH INTERRUPTS CONTROL IF MECHANICAL OVERLOAD OCCURS DURING CLOSING CYCLE
OTS 1-3	* OPENING TORQUE SWITCH INTERRUPTS CONTROL IF MECHANICAL OVERLOAD OCCURS DURING CLOSING CYCLE

3PH/380V/440VAC, 50/60Hz (On/Off)



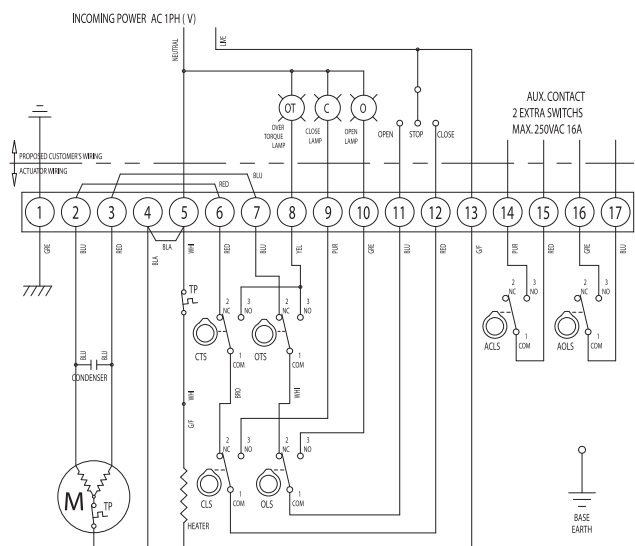
Important Notice

※ Please only refer to the Wiring Diagram Sticker or separate Wiring Diagram inside of each actuator.
If there is any confusion please contact your distributor.

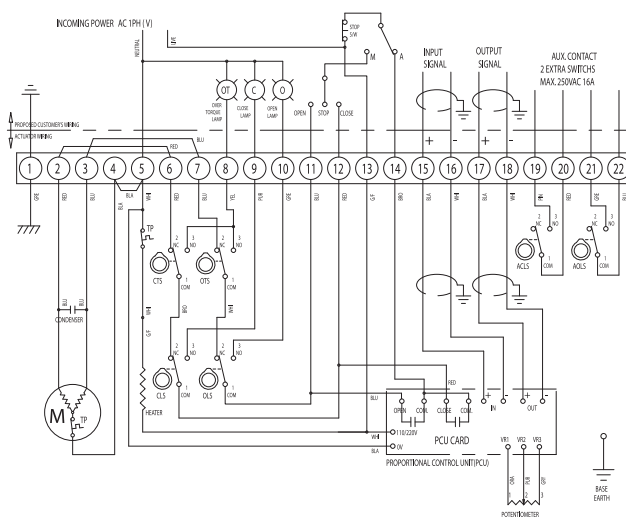


o TYPICAL WIRING (GQ-016~300)

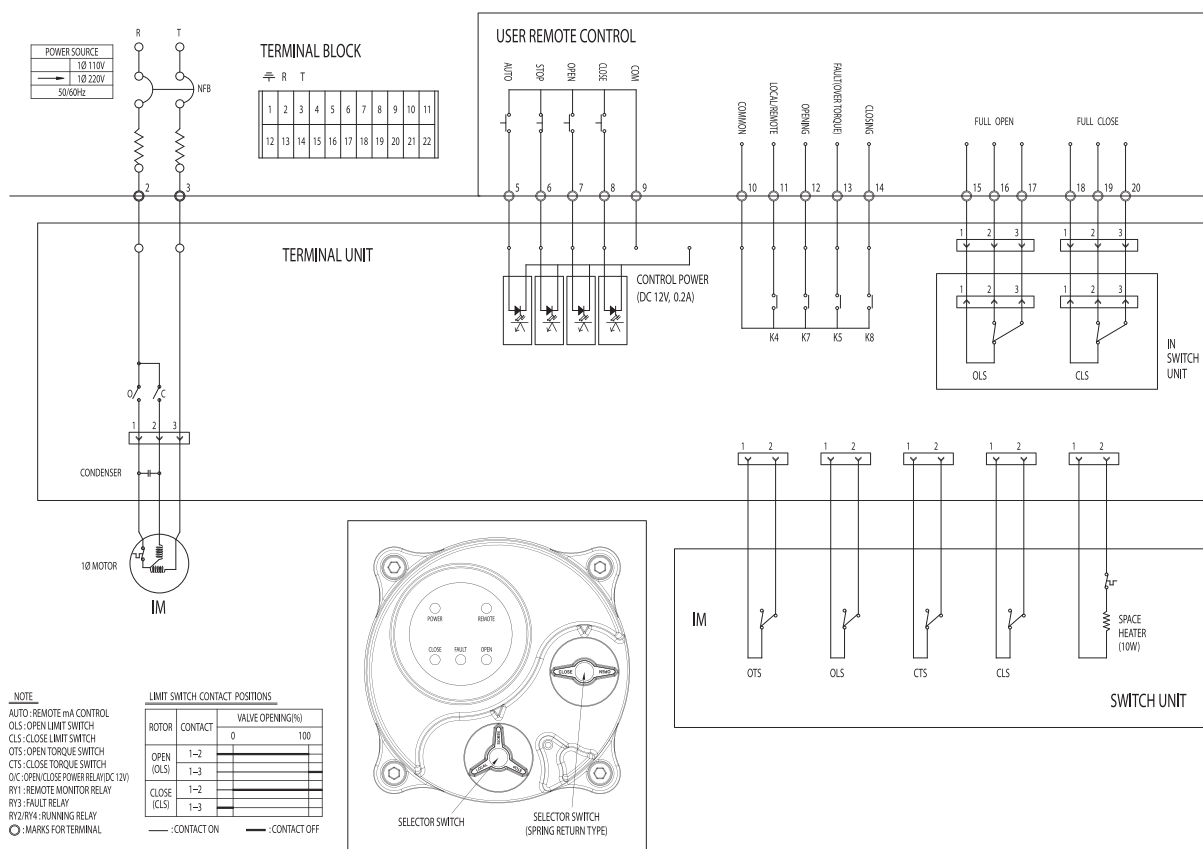
110/220VAC 50/60Hz (On/Off)



110/220VAC 50/60Hz (PCU option)



Local Control Unit (LCU)



- AOLS : Auxiliary Open Limit Switch (Dry contact)
- ACLS : Auxiliary Close Limit Switch (Dry contact)
- CLS : Close Limit Switch (250VAC 10A)

- OLS : Open Limit Switch (250VAC 10A)
- CTS : Close Torque Switch (250VAC 10A)
- OTS : Open Torque Switch (250VAC 10A)