

Electric Linear Actuator



- GEA-20AW, PDW (S)
- GEA-35AW, PDW



General

- Digital indicator showing the opening or closing of valve
- Stroke can be adjusted to suit the user's conditions using the auto setting button.
- Minimized maintenance due to the durable structure and reliable quality
- Applied to general industries including cooling & heating system, air conditioning, ice thermal storage system.
- Compatible with Digital temperature controller, DDC system or PLC system for the optimal performance.

Features

- Digit indicator (FND and LED lamp)
- Durable structure suitable for severe environment conditions
- Perfect enclosure against rain, water, moisture or dust.

Type

Model	Nominal stroke(mm)	Force(N)
GEA-20 AW, PDW (S)	20	2000(2.0KN)
GEA-35 AW, PDW	40	3500(3.5KN)

Application

Applicable for 2-Way or 3-Way Globe Valve installed at General Industries, Heating, Ventilation, Air conditioning or Ice thermal storage system

Valve	Type	Model(GVS, GXS, GVF, GXF)
2-Way valve	Single Seat	10K, 16K, 20K
3-Way valve	Mixing, Diverting	10K, 16K, 20K

(GVS, GXS.... belong to the product of Ginice)

Weatherproof Type

Specification

Model	GEA-20 AW, PDW	GEA-20 AW,PDW(S)	GEA-35 AW, PDW
Nominal stroke(mm)	20		40
Rated force(N)	2000		3500
Operating time(Sec)	50(0.4mm/sec)	28(0.7mm/sec)	100(0.4mm/ssec)
Power supply(V)	24V or 220V AC $\pm$ 10%		
Frequency(Hz)	50 / 60		
RPM	500 / 600		
Rated load(A)	24VAC : 0.5 / 220V AC: 0.075		
Condenser(μ F)	24VAC: 34 / 220VAC : 0.474		
Power consumption(VA)	24VAC : 12 / 220VAC : 16.5		
In/Output Signal	0~10VDC, 2~10VDC or 4~20mA DC		
Motor efficiency	S4-30%		
Ambient temperature	Operating : -15~60 °C		
Insulation class	E (IEC)		
Space Heater	10W		
Ambient Humidity	5~95% Rh (Non Condensing)		
Housing Protection	IP 67		
Conduit Entries	PF ½ x 3EA (PT ½ , NPT ½ or M20 x 1.5 at the request)		
Net weight (kg)	5.8		5.9

※ GEA-20 AW. PDW(S) : High Speed Operating Actuator

Option

Option	Description
ALS	Auxiliary Open, Close Limit Switches
PCU	Proportional Contact Unit (Modulating) In/Output signal : 4~20mA DC, 2~10VDC or 0~10VDC
PTM	Position Transmitter / Output : DC 4~20mA
Potentiometer	Potentiometer 1K Ohm / 135Ω

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Ordering (On-Off)

Model	Force	Type	Power/Frequency	In/Output	Description
GEA	N		AC / Hz		Ginice Electric Actuator
	20				2000N
	35				3500N
		AW			On-Off / IP67
		AWS			On-Off / IP67 / High speed(28sec)
			24		DC 24V (Under developing)
			46		AC 24V / 60Hz
			26		AC 220V / 60Hz
			45		AC 24V / 50Hz
			25		AC 220V / 50Hz
				00	Standard (RELAY)
				LS	Auxiliary Limit Switch
				135	Output : 0~135 Ohm

※ High speed is applied into only GEA-20

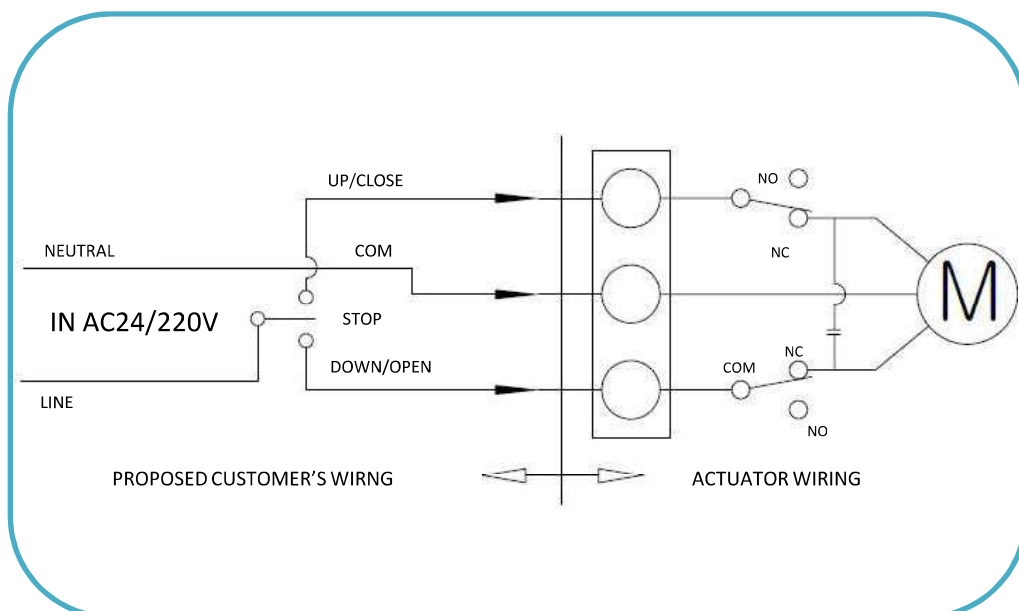
Ordering (Proportional)

Model	Force	Type	Power/Frequency	In/Output	Description
GEA	N		AC / Hz		Ginice Electric Actuator
	20				2000N
	35				3500N
		PDW			Proportional / IP67
		PDWS			Proportional / IP67 / High speed(28sec)
			24		DC 24V (Under developing)
			46		AC 24V / 60Hz
			26		AC 220V / 60Hz
			45		AC 24V / 50Hz
			25		AC 220V / 50Hz
				VO	In/Output : 0~10VDC
				A4	In/Output : 4~20mA
				V2	In/Output : 2~10VDC

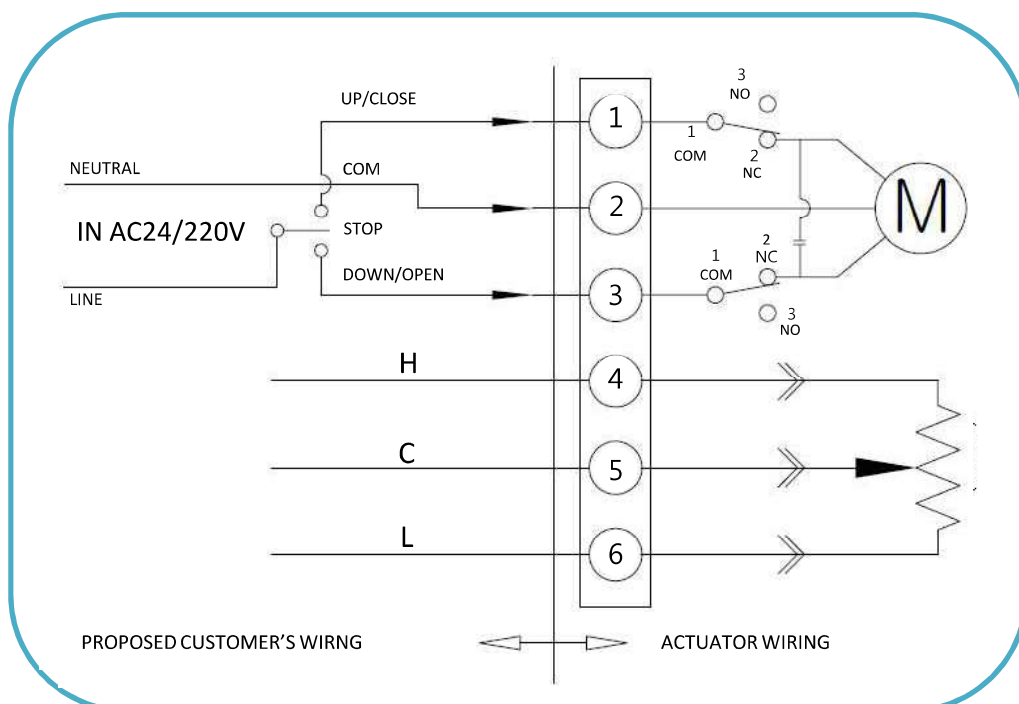
※ High speed is applied into only GEA-20

Weatherproof Type

Wiring – ON/OFF



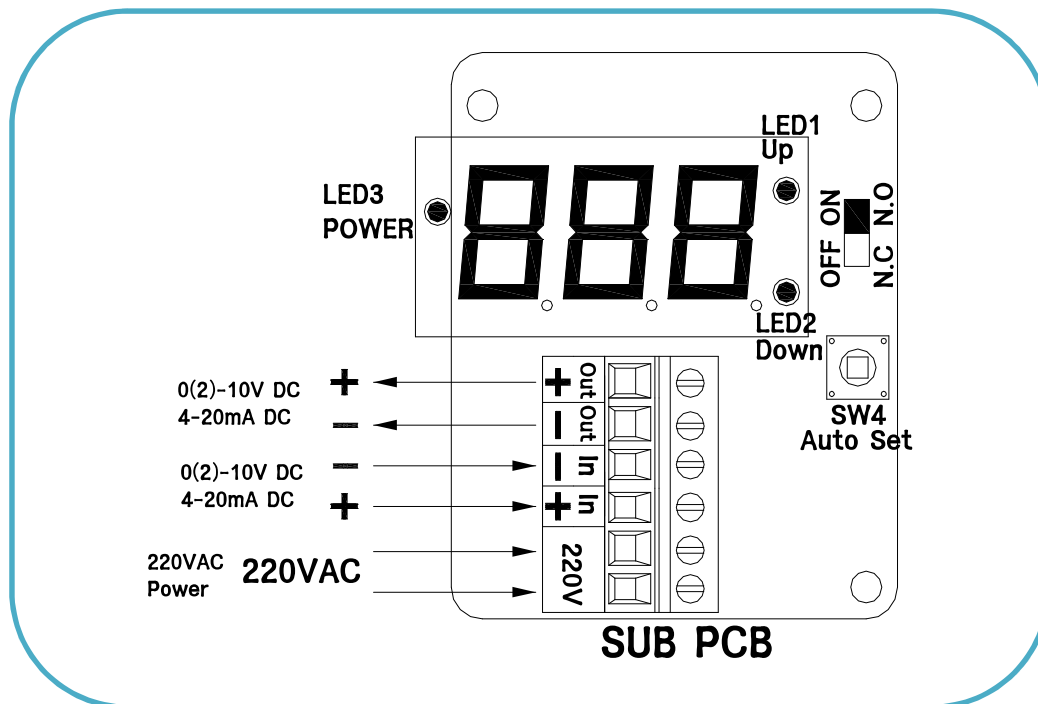
- Standard Type -



- Feedback Type –
(0~135Ω)

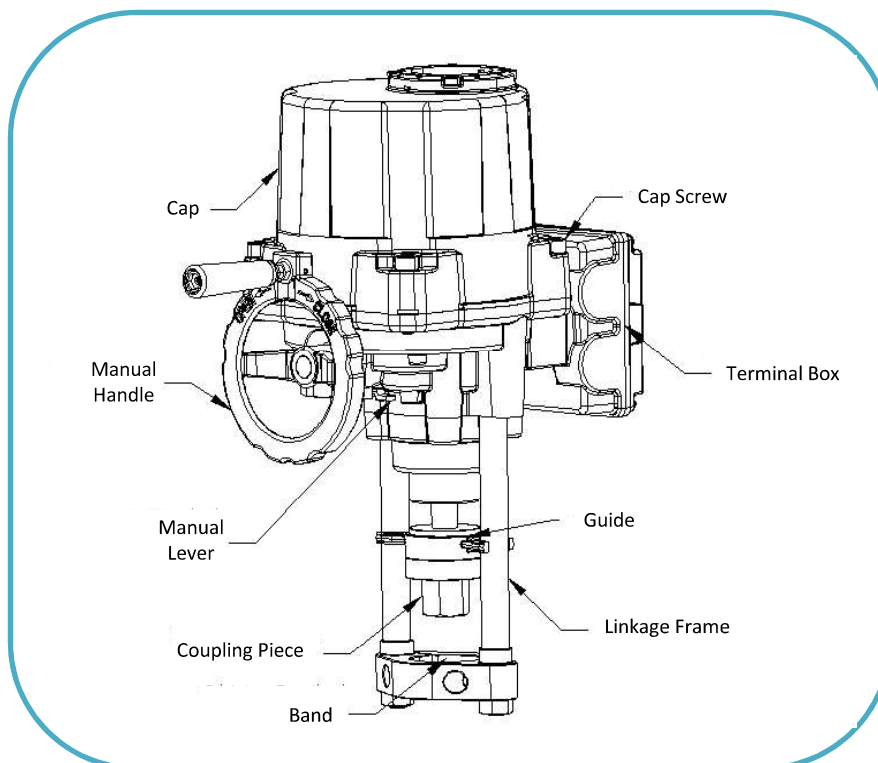
Electric Linear Actuator

Wiring – Proportional



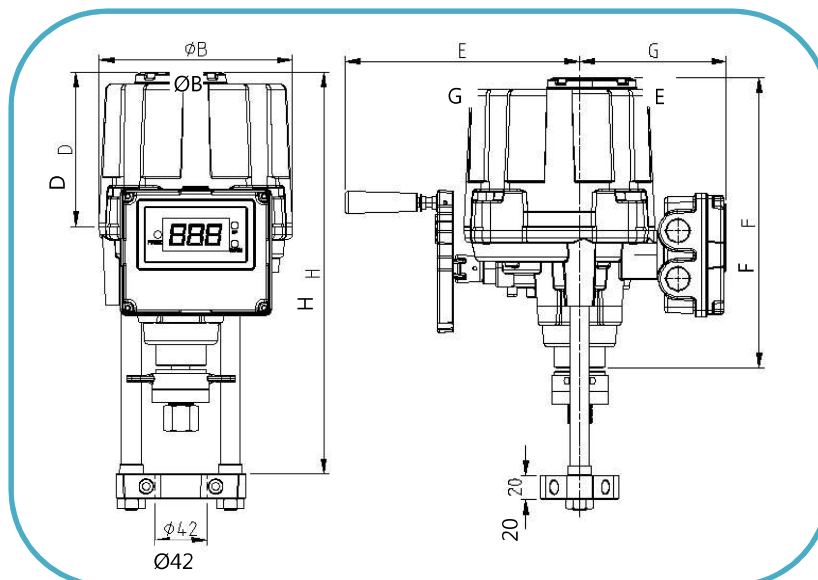
Structure

- Easy to assemble valve and actuator without any special tools.
- Maintenance minimized and simple motor replacement
- Easy manual operation by declutching mechanism



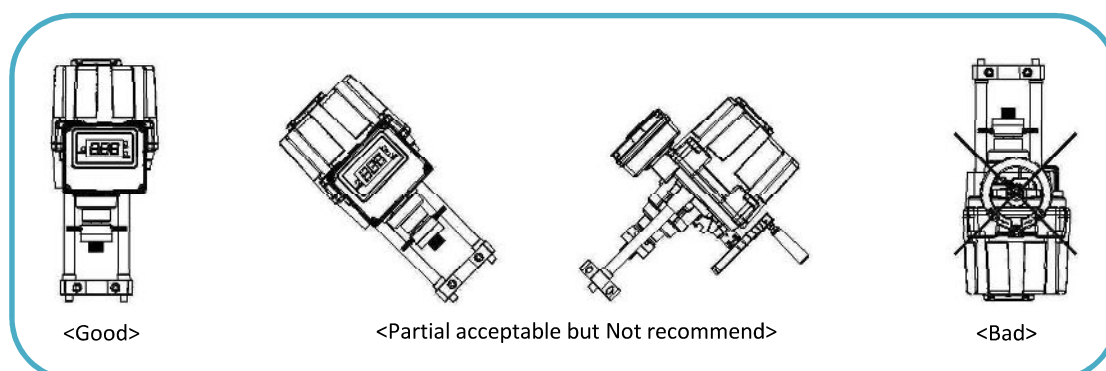
Weatherproof Type

Dimension



Model	GEA-20AW, PDW(S)	GEA-35AW, PDW
ϕB	156	156
H	325	345
D	124.5	124.5
F	237.5	237.5
E	120.3	120.3
G	191.9	191.9

Installation and Mounting



Operating (N.C Type)

Before commissioning, check wiring and specification first and then, test.

- Coupling part : Moving toward to valve / Valve - Open
- Coupling part : Moving toward to actuator / Valve - Close