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Proportional valve actuator GEA-250P



GEA-250P



Summary

Electric Linear Actuator is to generate Force and Speed by reducing gear and power-transfer device for Motor Torque. GEA-250P is for Linear Type to control Globe Control Valves and is easy to check opening position with exact feedback on site. A good deal of function and Robust Design, Reliable Operating lead low maintenance. It is applicable for heating&cooling, HVAC, District heating system, Ice thermal storage system, Temp controller, DDC Systems. PLC Systems.

<Discretionary stroke(mm) adjustment>

To adjust opening position at the point that end-user requires while Auto Setting, press (SI)button at the required position after starting auto-setting. Then, the stroke moves with the limit of required position, which control the flow-rate less. Please, note that the valve of GINICE is to run open position with shaft down.



Type Summary

Using 24V(220V) AC for electrical power and 0 ~ 10 VDC, 2 ~ 10 VDC, 4 ~ 20mA for control signal. Display valve opening position externally. Compatible with feedback output to check opening position by control signal. (AC 220V only available for GEA-250P(S).

Model	Norminal stroke (mm)	Force (N)
GEA-250P(S)	80	25000 (25.0KN)



Application

To operate 2-way and 3-way, GVF, GXF Series, GXF-D, GVF-S Series in the system of Heating, Ventilation, HVAC and Ice thermal storage.

Technical Data

Model (선택형)	GEA-250P	GEA-250PS
Normal stroke(mm)	80	
Thrust(N)	25000 (25.0)	
Operating time	210 (0.38mm/s)	110
Power supply	220VAC $\pm 10\%$	
Criterion of wiring	HIV 2.0 SQ above	
Frequency(Hz)	60 or 50	
Rated load	1	
Condenser / μF	6	
Consumption Power(VA)	(220)	
Input Signal	(standard : 0 ~ 10 VDC, 2 ~ 10 VDC, 4 ~ 20mA)	
Control Output	0 ~ 10VDC or 2 ~ 10 VDC or 4 ~ 20mA output to be selected with order(input to be the same as output)	
Motor effic.	S4 - 30%, EN60034-1	
Voltage	1000 VAC, 50 / 60Hz, for 1min	
Ambient Temp	Operation : -15 ~ 60°C / in transit : -30 ~ 65°C	
Ambient humidity	5~95% RH	
Insulation class	E (IEC)	
Housing protection	IP 54 (EN60529)	
Cable gland	PF $\frac{1}{2}$ × 2 EA	
Weight(kg)	21.3	

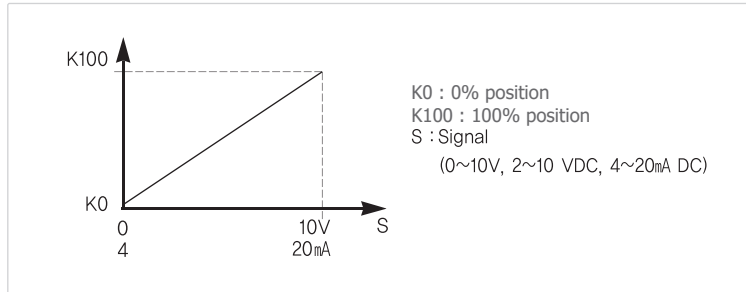
Ordering Specification

Model	Thrust	Operating	Power / Frequency	In/Out-put	Specifications
	(N)	type	AC / Hz	Signal	
GEA	250				GINICE / ELECTRICAL / ACTUATOR
					25000N
		P			Proportional / without digital display / normal speed
		PS			Proportional / without digital display / high speed (GEA-55 : 50sec, GEA-100 : 50sec, GEA-250 : 110sec)
			46		AC 24V / 60Hz(incompatible with GEA-250)
			26		AC220V / 60Hz
			45		AC 24V / 50Hz(incompatible with GEA-250)
			25		AC220V / 50Hz
				AV	Input : 0 ~ 10 VDC / 4 ~ 20mA / 2 ~ 10 VDC(No output)
				VO	Input : 0 ~ 10 VDC, Output : 0 ~ 10 VDC
				A4	Input : 4 ~ 20mA, Output : 4 ~ 20 mA
				V2	Input : 2 ~ 10 VDC, Output : 2 ~ 10 VDC



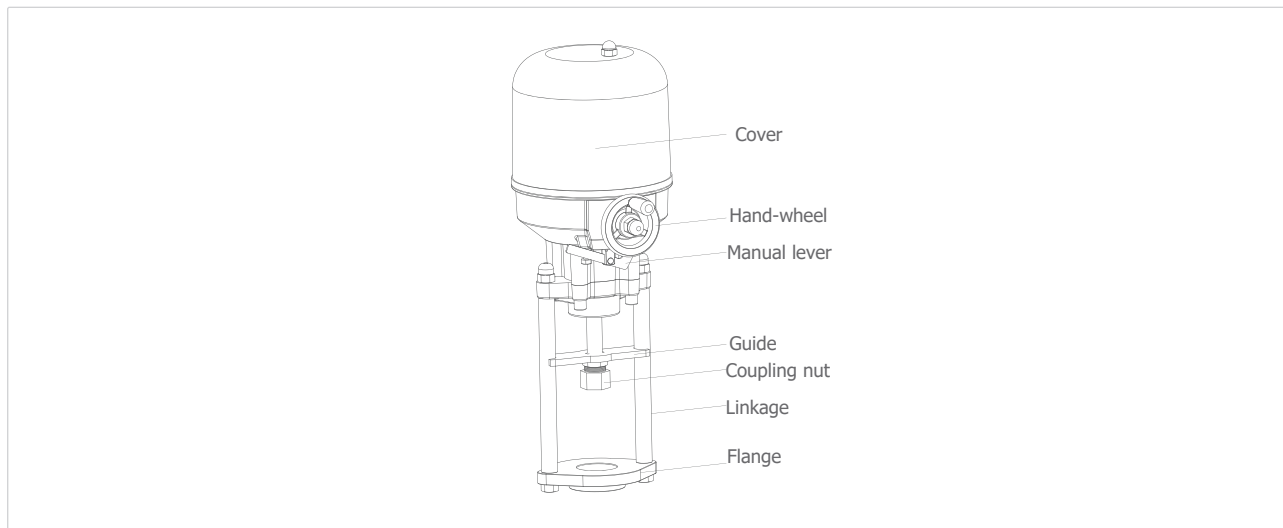
Technical Feature

- 0 ~ 100% recognizable Auto-setting function adjustable within the range of stroke
- Torque Switch to protect valve and actuator completely when over-load
- NC / NO selection with Dip switch without special tools



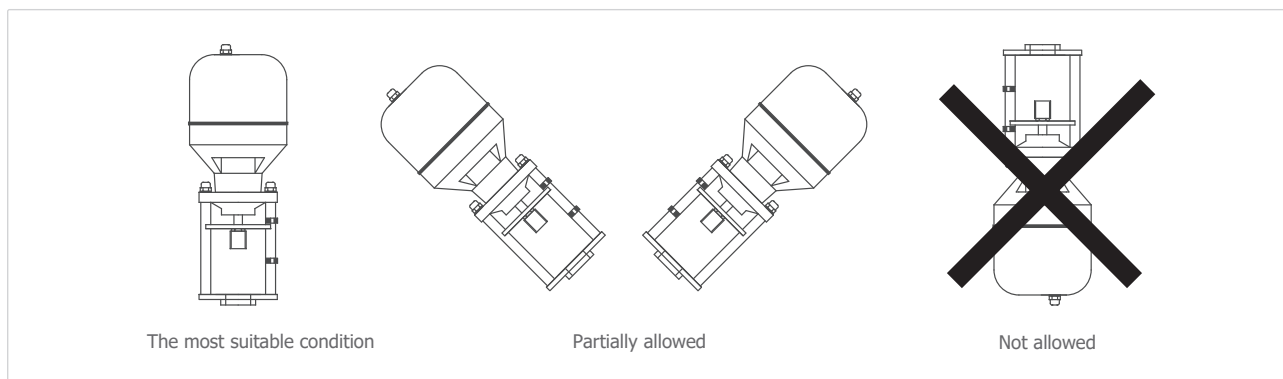
Design Character

- Easy to mount actuator onto the valve without special tools
- Low maintenance with synchronous motor compatible with CW, CCW movement. Easy replacement of motor. Easy manual operation with De-clutching system



Installation and Mounting Notes

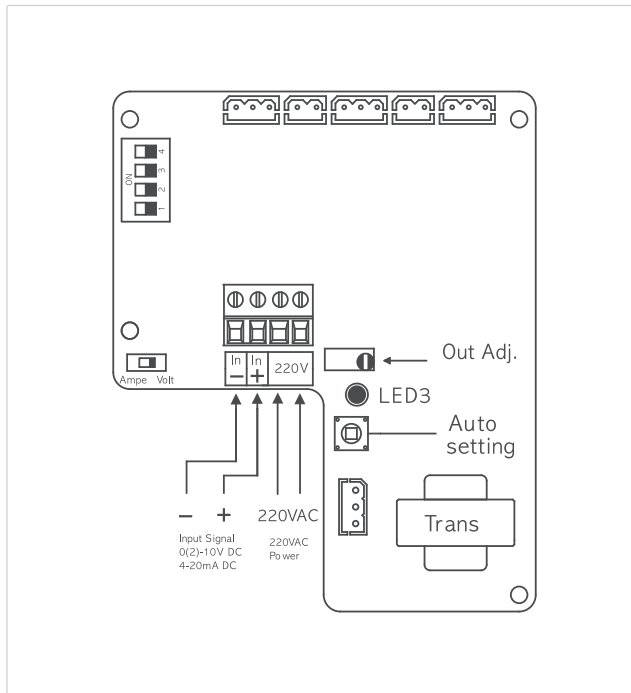
Review before valve installation



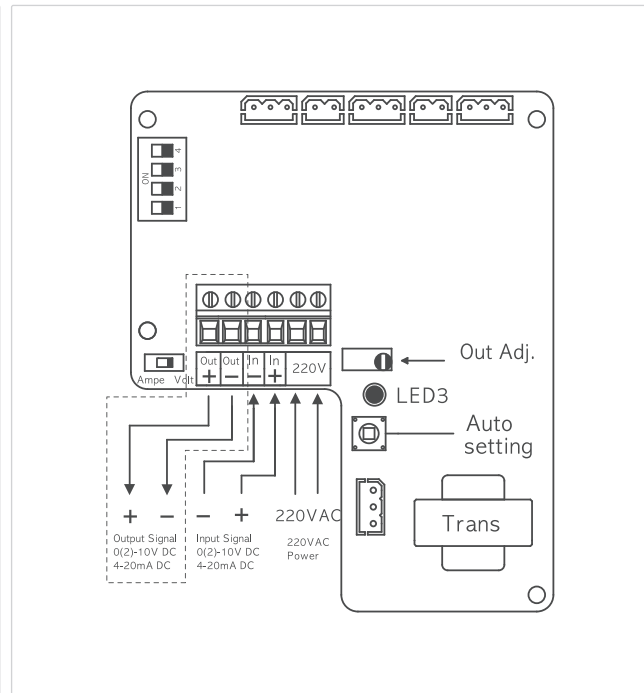
Open / Close Direction Of Valve(NC type)

- Check wiring and functions and test before inspection(changeable with DIP S/W)
- Valve shaft or Coupling piece downward : valve open
 - Valve shaft or Coupling piece upward : valve close

Wiring diagram



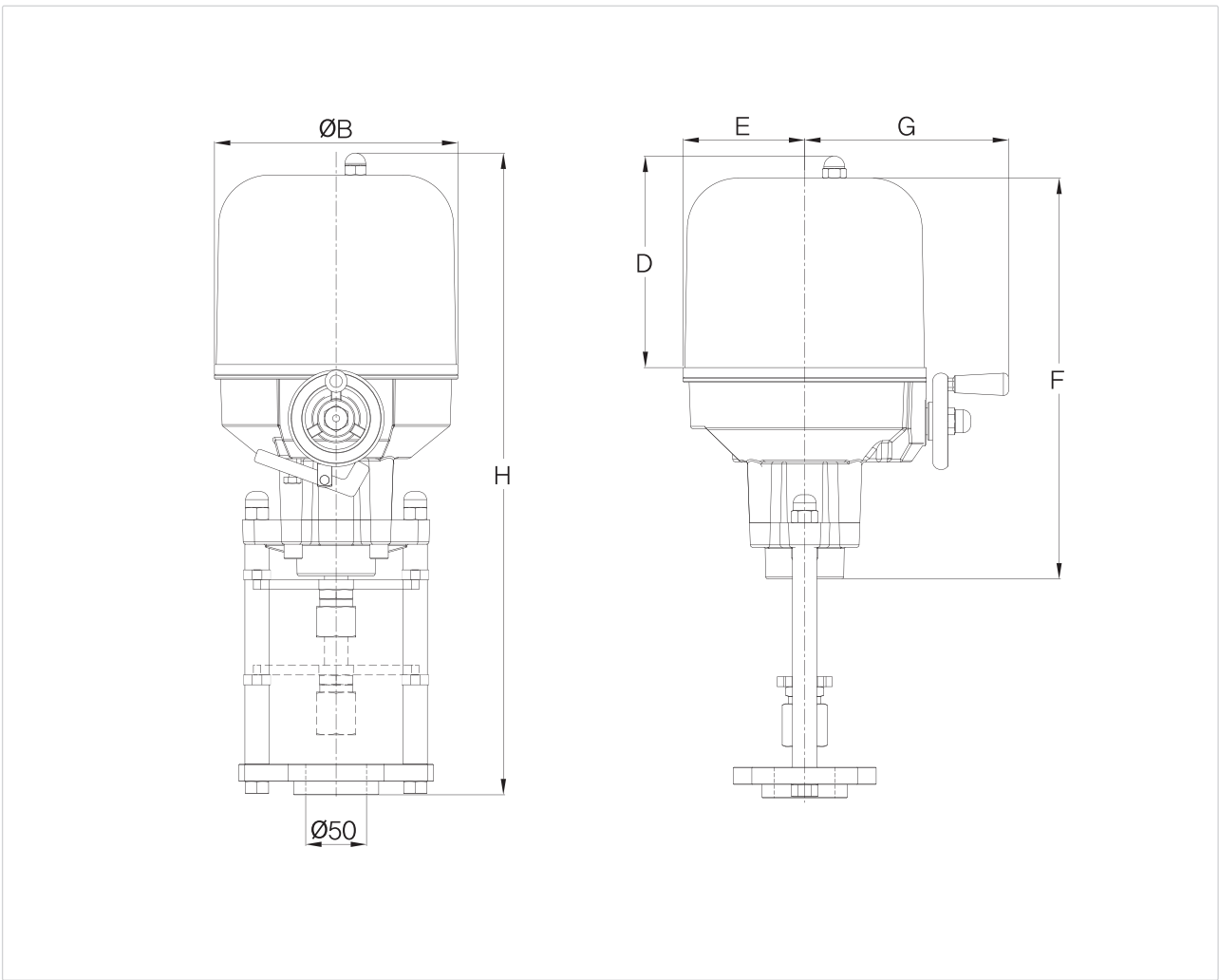
※ **Standard**
GEA-250P (220 VAC)
Input : 0 ~ 10 VDC / 4 ~ 20mA / 2 ~ 10 VDC



※ **Out-put required**
GEA-250P (220 VAC)
In/out-put : one of 0 ~ 10 VDC / 4 ~ 20mA / 2 ~ 10 VDC



Shape Dimension



MODEL	ØB	H	D	F	E	G
GEA-250	254	609	171	356	127	250

※ GEA-250A(S) : Flange type