

8-4

Proportional valve actuator GEA-10P / GEA-20P / GEA-35P



GEA-10P



GEA-20P



GEA-35P

Summary

Robust structure, re-inforced sealing, reliable operation, low maintenance. Applicable for heating&cooling, HVAC, Ice thermal storage system.

<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

With 24VAC and 220VAC

Model	nominal stroke(mm)	Force (N)
GEA-10P(S)	20	1000 (1.0KN)
GEA-20P(S)	20	2000 (2.0KN)
GEA-35P	40	3500 (3.5KN)

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.

valve	type	Model(GVS, GXS, GVF, GXF)
2-way valve	Single seat	10K, 16K, 20K
3-way valve	Mixing, Diverting	10K, 16K, 20K

Technical Data

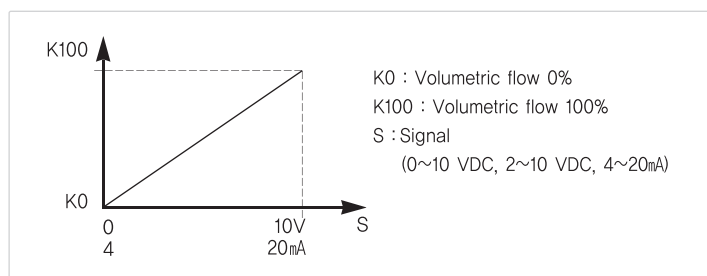
Model	GEA-10P	GEA-10PS	GEA-20P	GEA-20PS	GEA-35P
stroke(mm)	20				40
Nominal force(N)	1000		2000		3500
operating time	50 (0.4mm/s)	28	50 (0.4mm/s)	28	100 (0.4mm/s)
Power supply(V)	24V (220V) AC $\pm$ 10%				
Frequency(Hz)	60 or (50)				
motor speed(rpm)	600				
Rated load(A)	0.67(0.085)	2.21(0.22)	0.07(0.085)		
condenser(μ i)	34 (0.474)				
consumption power(VA)	16(18.7)	53.04(39.6)	16(18.7)		
Input Signal	(Standard : 0~10VDC, 2~10VDC, 4~20mA)				
Control Output	0~10VDC or 2~10 VDC or 4~0mA output to be selected with order(input to be the same as output)				
Motor effic.	S4 – 30%, EN60034–1				
Ambient Temp.	Operation : -15 ~ 60℃				
Ambient Temp.	in transit : -30 ~ 65℃				
Insulation class	E (IEC)				
Fail position	CLOSE(shaft upward)				
Ambient Humidity	5 ~ 95% RH				
Housing Protection	IP 54 (EN60529)				
Conduit Entries	PF $\frac{1}{2}$ × 2 EA				
Weight (kg) Net/Gross	2.4 / 2.7		3.2 / 3.7		3.3 / 3.8

Ordering Specification

Model	Thrust N	Operating Type	power/frequency AC / Hz	In/Out-put Signal	Specifications
GEA					GINICE / ELECTRICAL / ACTUATOR
	10				1000N
	20				2000N
	35				3500N
		P			Proportional / without digital display / normal speed
		PD			Proportional / without digital display / normal speed
		PS			Proportional / without digital display / high speed (GEA-10 : 28sec, GEA-20 : 28sec)
		PDS			Proportional / without digital display / normal speed
			46		AC 24V / 60Hz
			26		AC220V / 60Hz
			45		AC 24V / 50Hz
			25		AC 220V / 50HZ
				AV	Input:0~10VDC/4~20mA/2~10VDC(No output)
				V0	Input : 0~10VDC, Output:0~10VDC
				A4	Input:4~20mA, Output:4~20mA
				V2	Input:2~10VDC, Output:2~10VDC

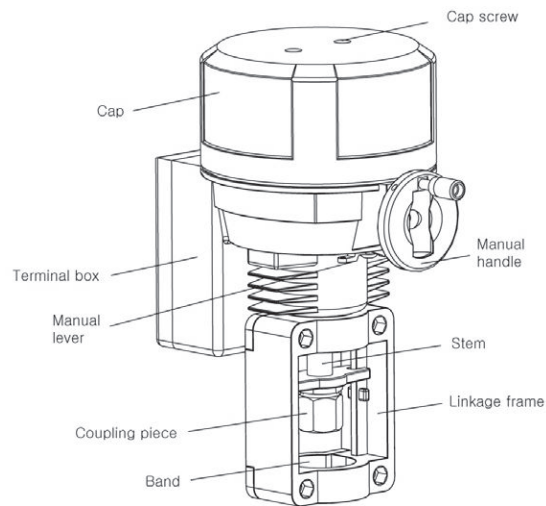
GEA - □□ P

- 1) GEA-10, 20, 35P : 24VAC as standard power supply and 220VAC as optional
- 2) 60Hz(frequency) as standard, 50Hz as optional
- 3) Control output signal of GEA-10, 20, 35 is to be selected when order



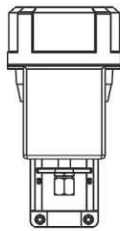
Design Character

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

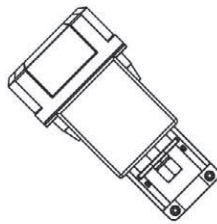


Installation and Mounting Notes

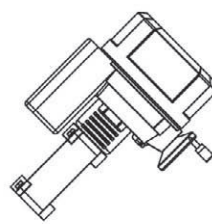
Review before valve installation



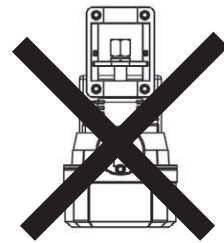
The most suitable condition



partially allowed



Not allowed

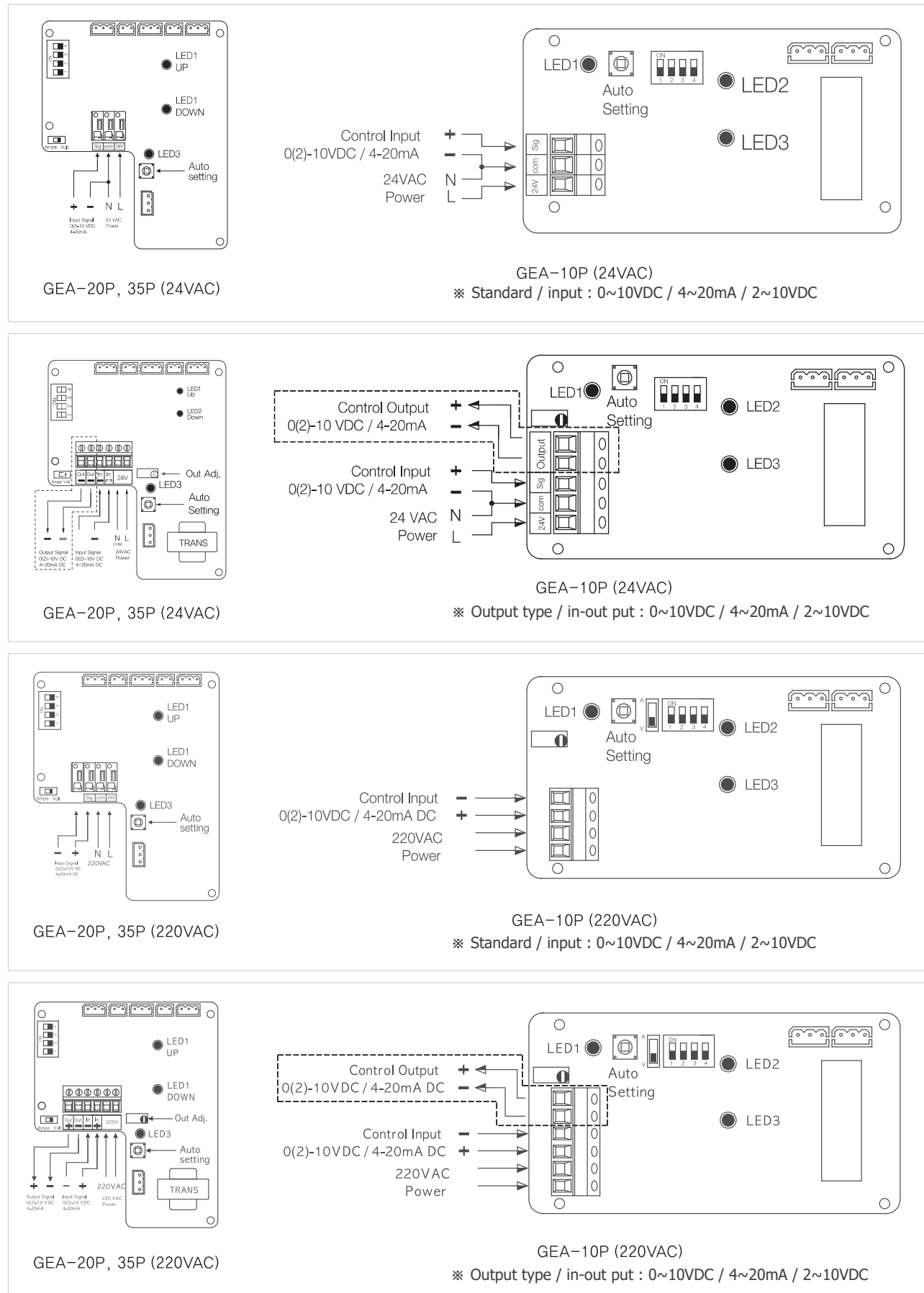


Open / Close Direction Of Valve(normal close)

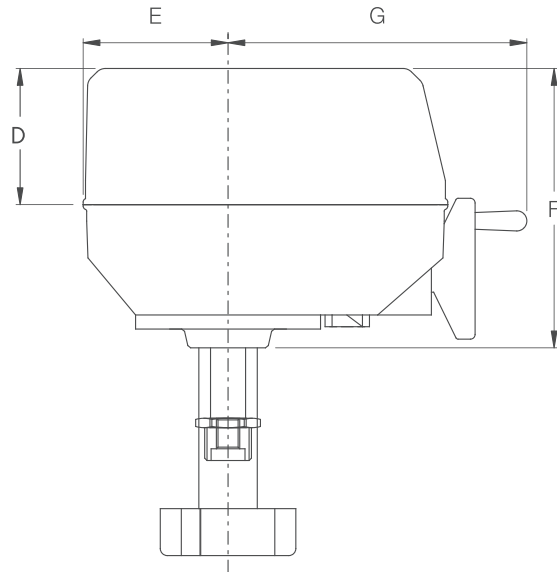
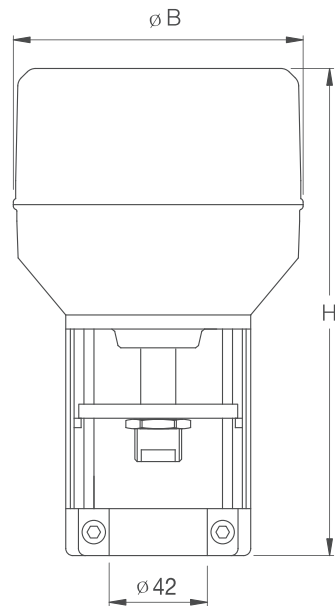
Check wiring and functions and test before inspection(For GINICE's valve)

- Valve shaft or Coupling piece downward : valve open
- Valve shaft or Coupling piece upward : valve close

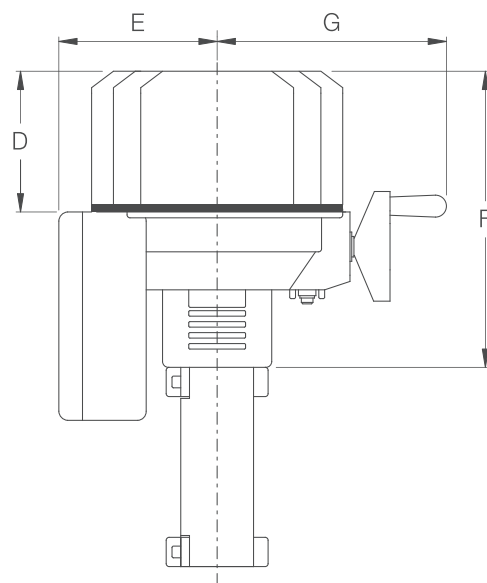
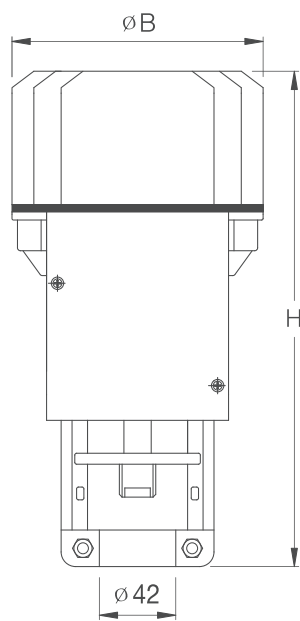
Wiring Diagram



Shape Dimension



GEA-10P



GEA-20P, 35P

Model	GEA-10P(S)	GEA-20P(S)	GEA-35P
ΦB	122	140	140
H	208	270	296
D	58	70	70
F	112	157	157
E	62	89	89
G	106	123	123