

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

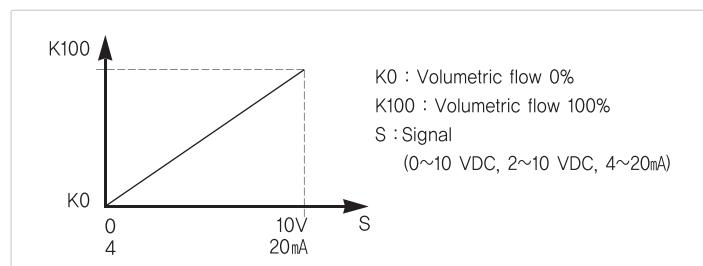
Model	GEA-10P	GEA-10PS	GEA-20P	GEA-20PS	GEA-35P
stroke(mm)		20			40
Nominal force(N)	1000		2000		3500
operating time	50 (0.4mm/s)	28	50 (0.4mm/s)	28	100 (0.4mm/s)
Power supply(V)			24V (220V) AC ±10%		
Frequency(Hz)			60 or (50)		
motor speed(rpm)			600		
Rated load(A)	0.67(0.085)	2.21(0.22)		0.07(0.085)	
condenser(μ F)			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°C		
Ambient Temp.			in transit : -30 ~ 65°C		
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	Operating	power/frequency	In/Out-put	Specifications	
					AC / Hz	Signal
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	

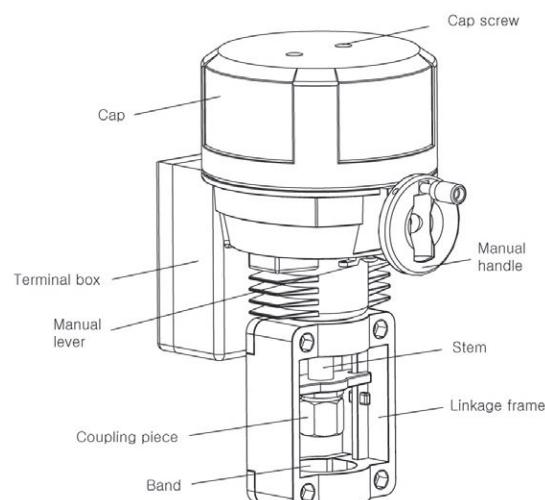
GEA - □□ P

- 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



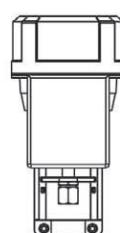
Design Character

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

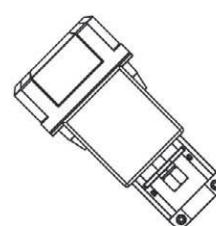


Installation and Mounting Notes

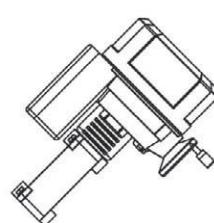
Review before valve installation



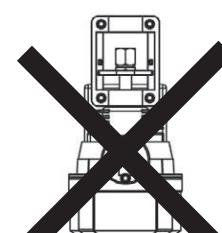
The most suitable condition



partially allowed



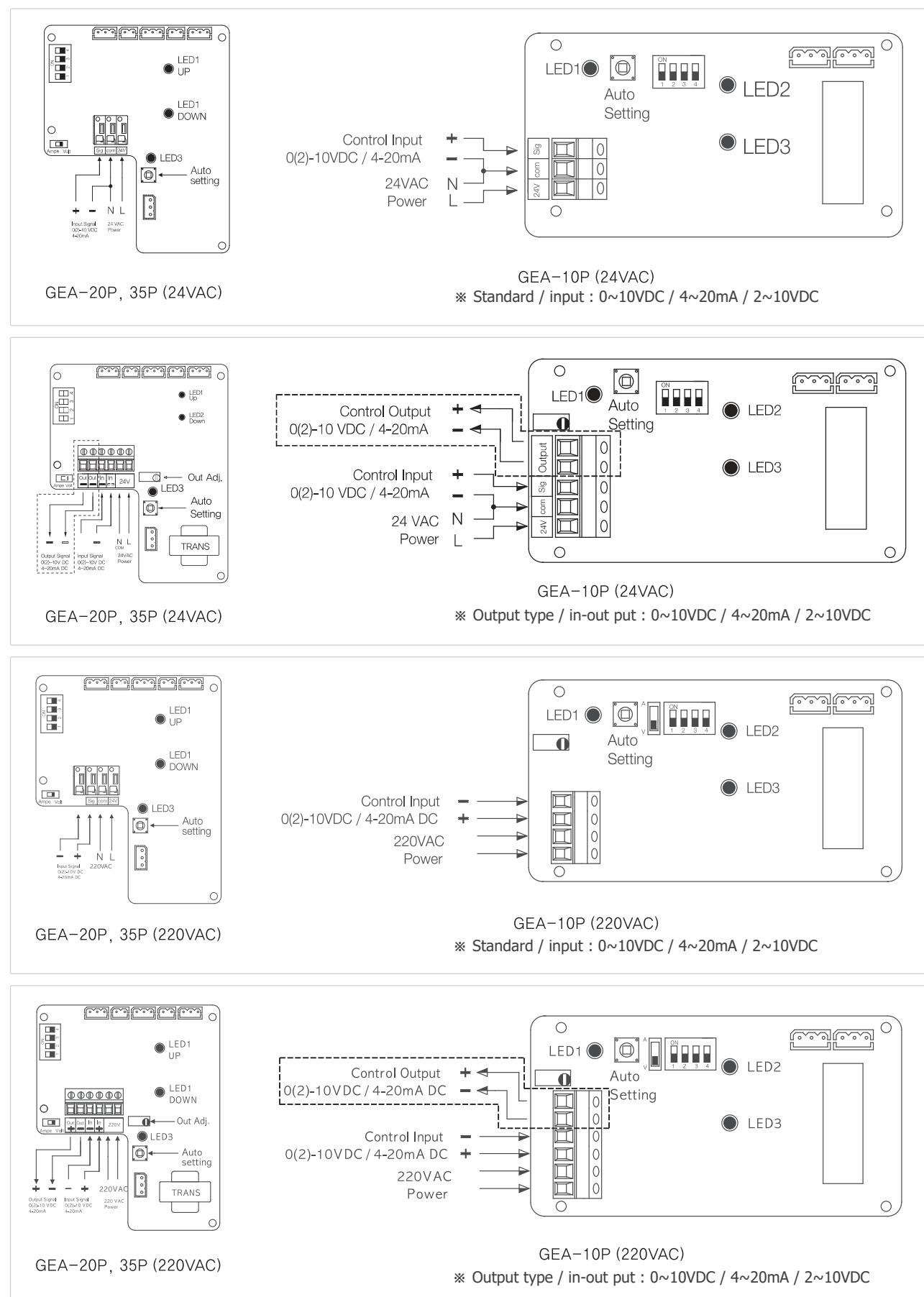
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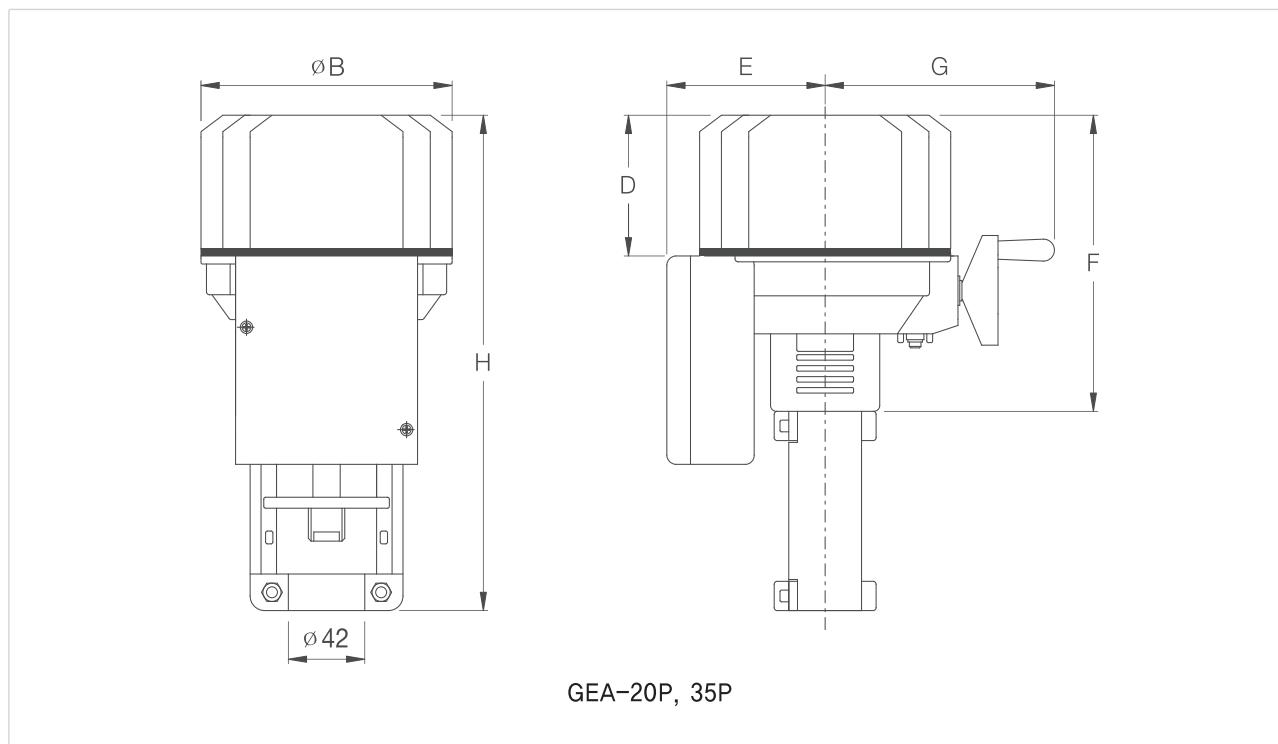
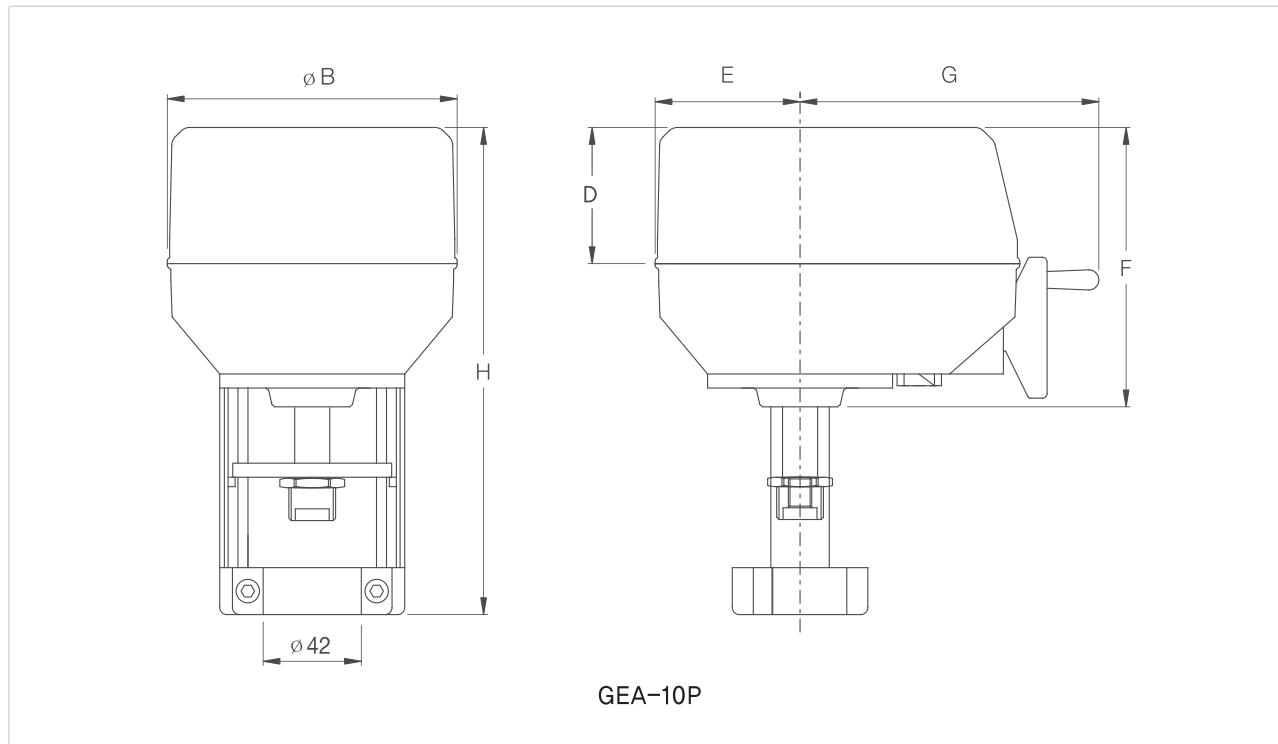


Open / Close Direction Of Valve(normal close)

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


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