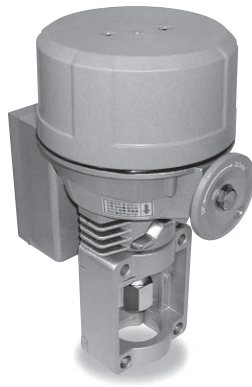


8-2

ON-OFF valve actuator GEA-10A / GEA-20A / GEA-35A



GEA-10A



GEA-20A



GEA-35A

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-10A(S)	20	1000 (1.0KN)
GEA-20A(S)	20	2000 (2.0KN)
GEA-35A	40	3500 (3.5KN)

Application

To operate 2-way and 3-way valve, 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-10A	GEA-10AS	GEA-20A	GEA-20AS	GEA-35A
stroke(mm)	20		20		40
Nominal force(N)	1000		2000		3500
operating time(sec)	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)				
Condenser(μF)	34 (0.474)				
consumption power(VA)	16(18.7)				
Control Signal	Clock-wise(CW) / Counter-Clock wise(CCW)				
Control Output	-		Option (2 * Open / Close 3A)		
Motor effic.	S4 – 30%, EN60034–1				
Ambient Temp.	Operation : -15 ~ 60℃				
Ambient Temp.	In transit : -30 ~ 60℃				
Insulation class	E (IEC)				
Ambient Humidity	5 ~ 95% RH				
Housing Protection	IP 54 (EN60529)				
Conduit Entries	PF ½ × 2 EA				
Weight (kg) Net/Gross	2.4 / 2.7		3.2 / 3.5		3.3 / 3.6

Ordering Specification

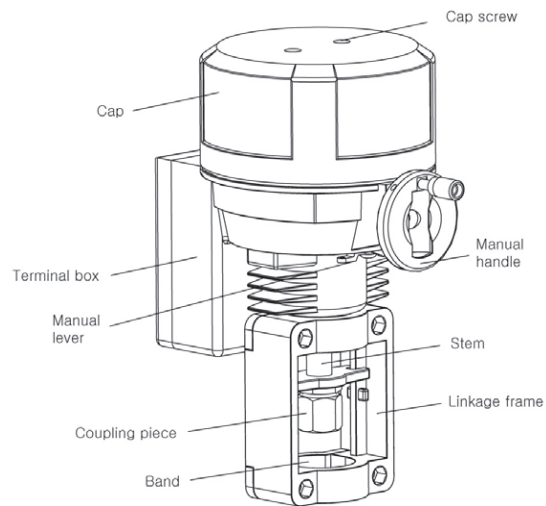
Model	Thrust N	Operating Type	power/frequency AC / Hz	In/Out-put Signal	Specifications
GEA					GINICE / ELECTRICAL / ACTUATOR
	10				1000N
	20				2000N
	35				3500N
		A			ON-OFF / normal speed
		AS			ON-OFF / high speed (GEA-10 : 28sec, GEA-20 : 28sec)
			46		AC 24V / 60Hz
			26		AC220V / 60Hz
			45		AC 24V / 50Hz
			25		AC220V / 50Hz
				00	standard(RELAY)
				LS	Auxiliary limit switch(unavailable with GEA-10)
				135	Out-put resistance : 0 ~ 135 Ohms(unavailable with GEA-10)
				TS	TORQUE STOP S/W

GEA - □ □ A

- 1) 24VAC is standard for power supply, 220VAC to be selected with order
- 2) 60Hz is standard frequency, 50Hz to be selected with order
- 3) Required signal to be discussed before order
- 4) Limit switch with additional order

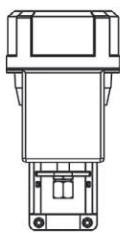
Design Character

- 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

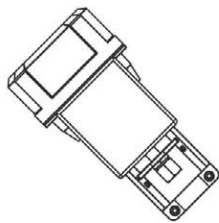


Installation and Mounting Notes

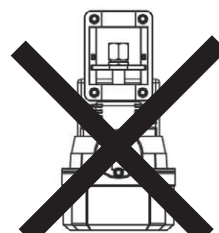
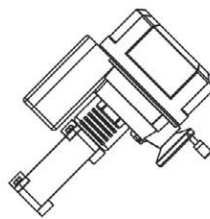
Review before valve installation



<The most suitable condition>



<partially allowed>

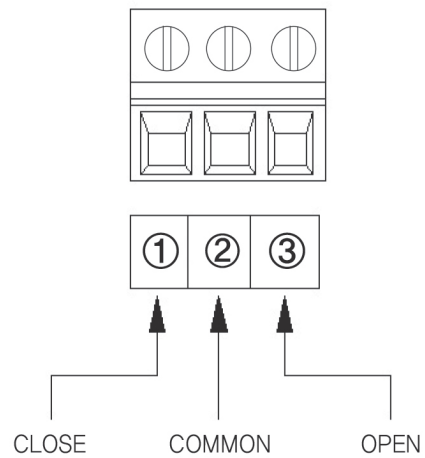


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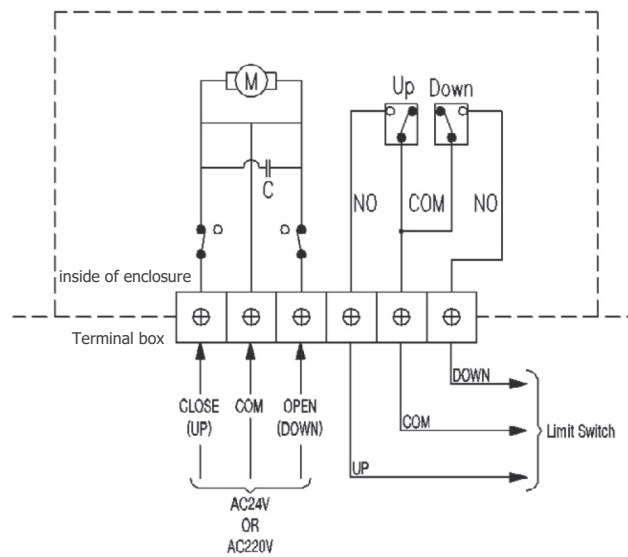
Open / Close Direction Of Valve

- 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

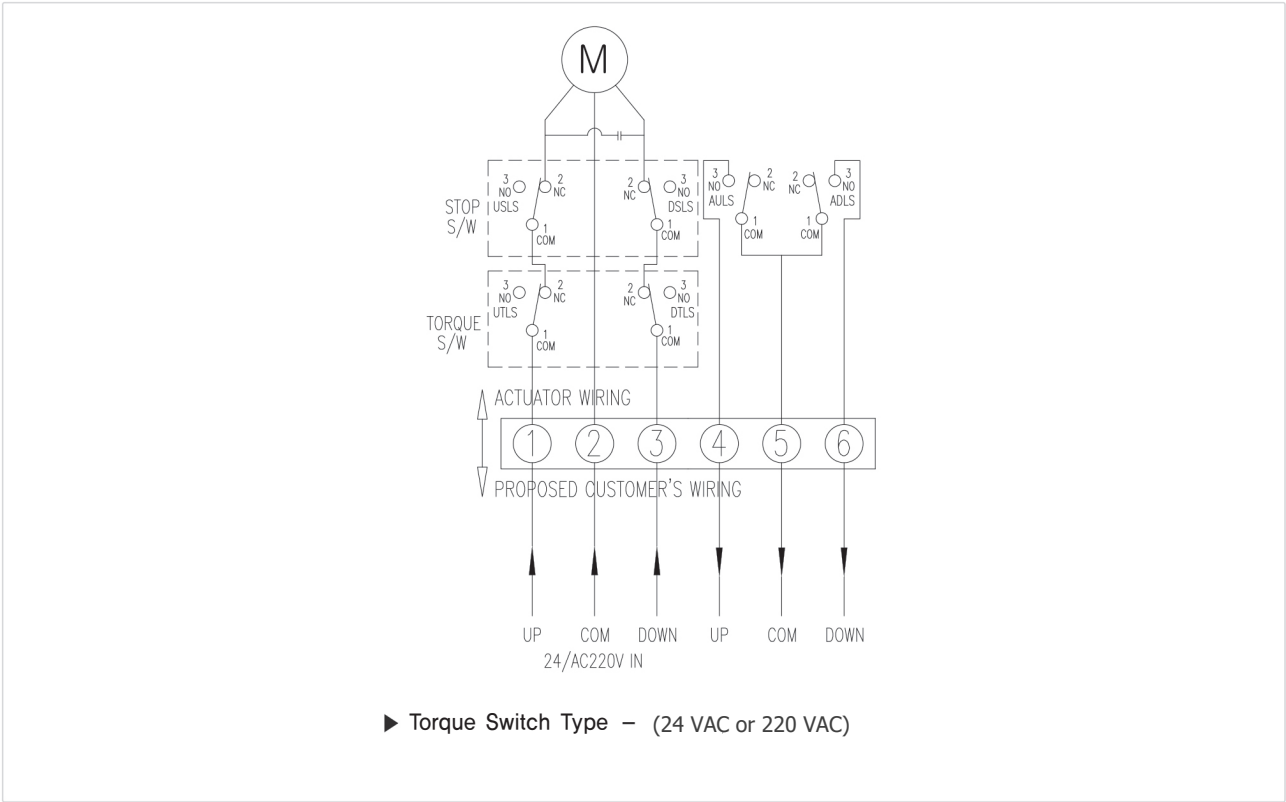


Standard Type - (24 VAC or 220VAC)

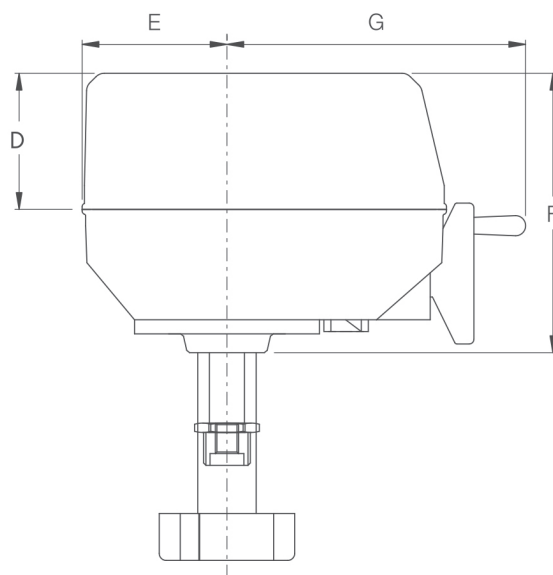
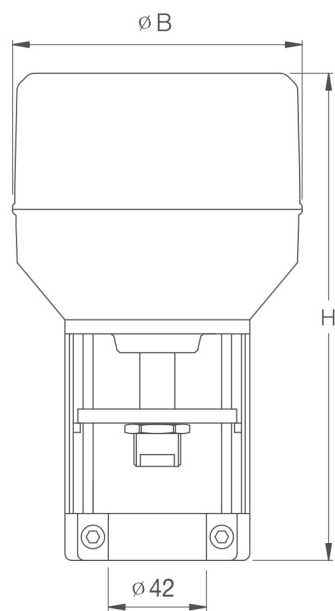


Limit Switch Type - (24VAC or 220VAC)

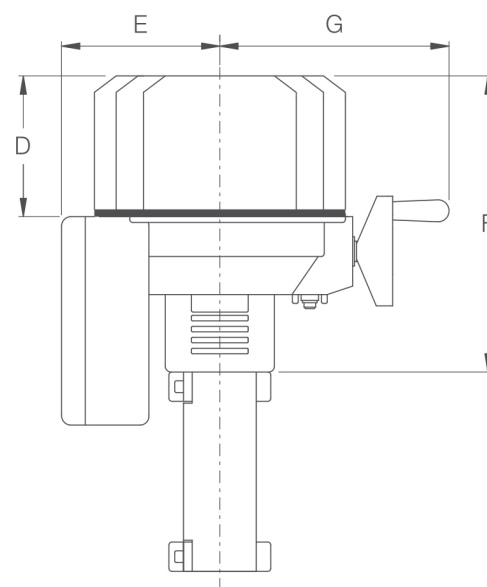
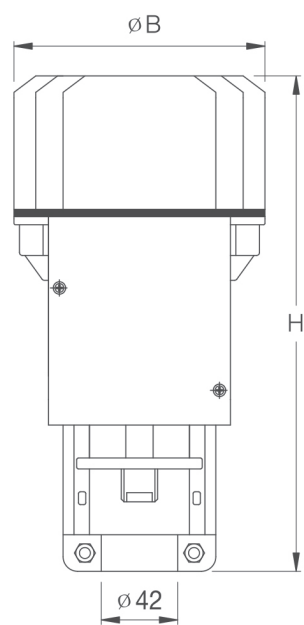
Wiring Diagram



Shape Dimension



GEA-10A



GEA-20A, 35A

Model	GEA-10A(S)	GEA-20A(S)	GEA-20T(S)	GEA-35A	GEA-35T(S)
ϕB	122	140		140	
H	208	270	300	296	326
D	58	70	102	70	102
F	112	157	216	157	216
E	62	89		89	
G	106	123		123	