

ON-OFF VALVE ACTUATOR

(GEA-10A)



GENERAL

On-Off Electric Actuator is the superior actuator raising various force and speed for spinning power of synchronous motor from the devices of appropriate reducing gear and power transportation that model GEA-10A are proper model for Globe Control Valve as linear type only, and accurate feed back control function makes more easy to check by indicating valve guide from with it's multi functional system, robust design and reliable operating which is almost free from maintenance, that it can be applicable to Heating/Cooling, Heating Ventilation Air Conditioning System.

TYPE SUMMARY

This actuator operated with power source 24V (220V)AC control.

Model	Nominal stroke (mm)	Nominal Force (N)
GEA-10A (S)	20	1000N (1.0KN)

APPLICATION

This is to use for control 2-way and 3-way of GVS, GXS Series (Bronze Valve), 15A~50A GVF, GXF Series (Cast Iron Frange Valve), or other frange valve for Heating/Cooling, HVAC.

Valve	Type	Series(GVS, GXS, GVF, GXF)
2-way	Single Seat	10K, 16K
3-way	Mixing, Diverting	10K, 16K

TECHNICAL DATA

Model(optional)	GEA-10A	GEA-10AS
NOMINAL STROKE (mm)	20	
NOMINAL FORCE (KN)	1000 (1.0)	
OPERATING TIME (Sec)	50 (0.4mm/s)	28
OPERATING POWER (V)	24V (220V)AC ±10%	
FREQUENCY (Hz)	60 or 50	
MOTOR SPEED (rpm)	600	
REGULAR LOAD (A)	0.5 (0.075)	
CONDENSER (μF)	34 (0.474)	
POWER CONSUMPTION	12(16.5)	
OPERATING SIGNAL	CW / CCW	
MOTOR EFFICIENCY	S4-30% ED - c/h 600, EN60034 - 1	
OPERATING TEMP	: -15 ~ 60℃	
TRANSPORTATION TEMP	: -30 ~ 65℃	
VOLTAGE ENDURANCE	1,000VAC, 50/60Hz , 1 minute	
INSULATION CLASS	E (IEC)	
AMBIENT HUMIDITY	5 ~ 95% Rh	
HOUSING PROTECTION GRADE	IP 54 (DIN40050)	
CONDUIT ENTRIES	PF $\frac{1}{2}$ × 2EA	
WEIGHT (Kg)	Net/2.4 , Gross/2.7	

ORDERING

GEA-10A

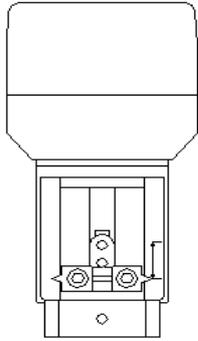
- 1) Operating power source for GEA-10A is 24V AC as basic and 220V AC is optional at order.
- 2) Frequency is 60Hz as basic and 50Hz is optional at order.

DESIGN FEATURE

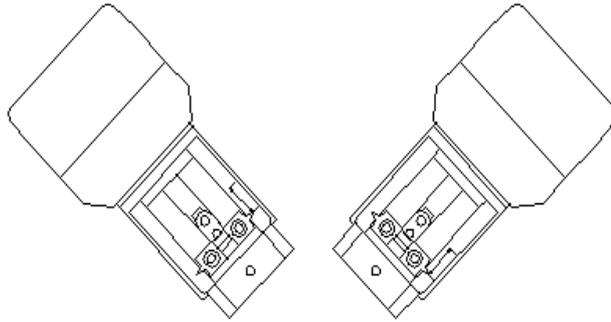
- ▶ Easy to assemble valve and actuator without any special tools.
- ▶ Not much for maintenance by attaching motivating motor of CW, CCW and easy to substitute motor when repair would be needed.
- ▶ By adopting manual control method of De-Clutching, easy to control and when motor is operating it switches automatically.

MOUNTING AND INSTALLATION GUIDE

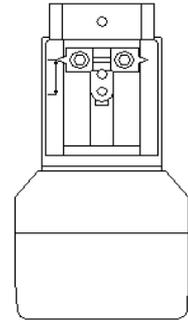
You should notice all guides before installation of valve :



<best condition>



<lowest condition limit>



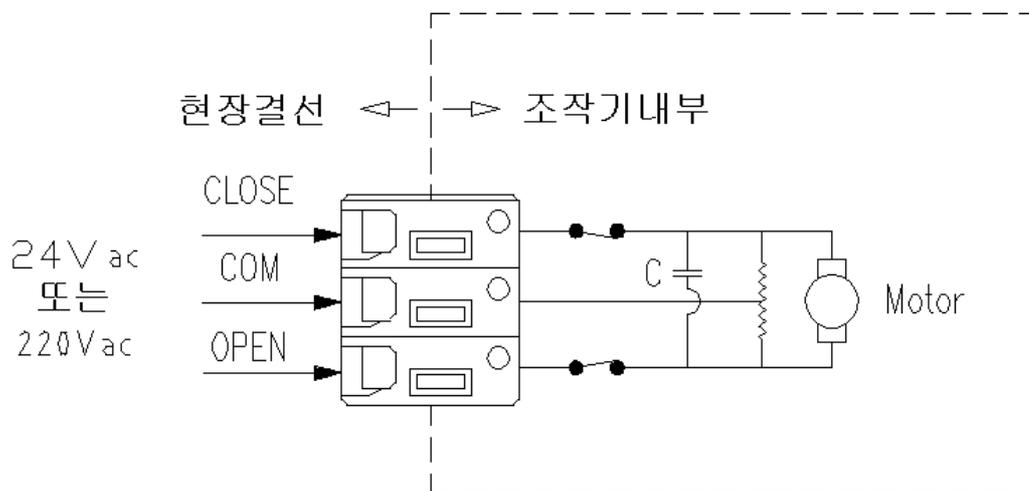
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COMMISSIONING NOTES

Before commissioning, check wiring and features first and test later.

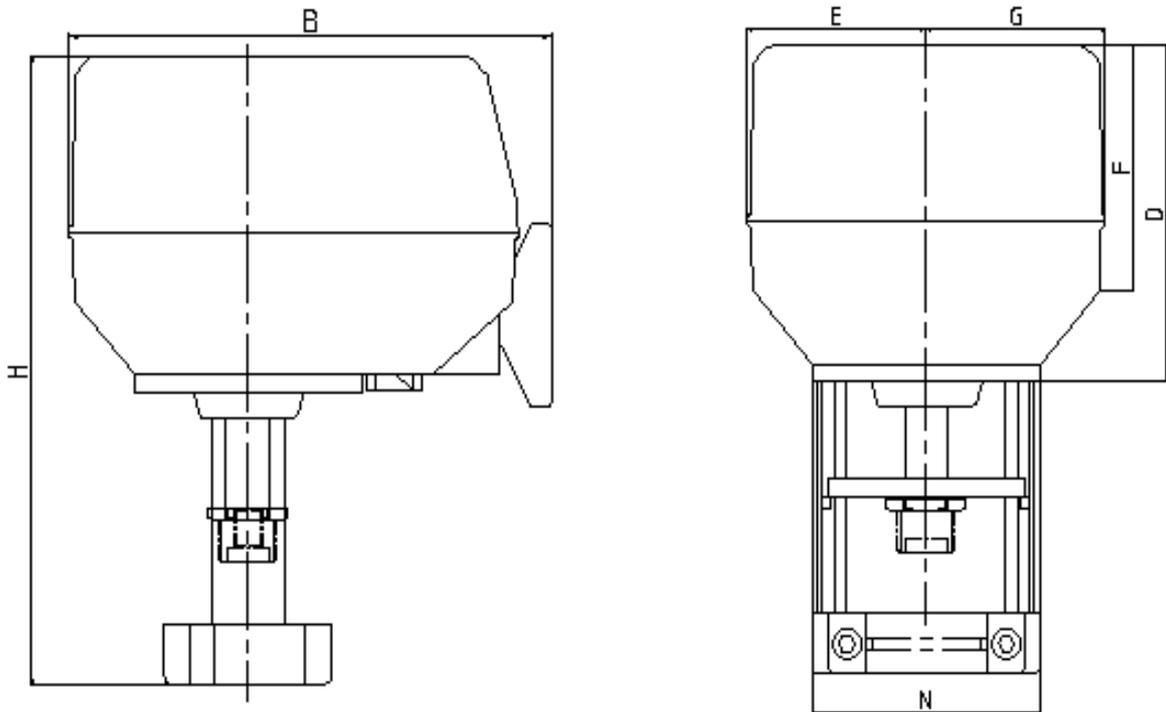
- *Coupling Piece : moving (Down) toward to valve : open valve
- *Coupling Piece : moving (Up) toward to Actuator : close valve

WIRING DIAGRAM



Basic type < GEA-10A >

DIMENSION



Model	GEA-10A(S)
øB	122
H	208
D	112
F	81
E	62
G	106
N	79

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