DIGTAL ELECTRIC LINEAR ACTUATOR

(GEA-55PD, GEA-100PD)



♦ GENERAL

Electric Digtal Linear 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-55PD & GEA-100PD 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 gauge from 0 to 100% digital way with it's multi functional system, Robust & Reliable operating which is almost free from maintenance that it can be applicable to Cooling/Heating, Heating ventilation air conditioning and provincial heating and Dynamic harvest system.

♦ FEATURES

When needed adjustment for VALVE STROKE between 0% to 100% with randomly, Press Auto-Setting Button(S1) on the P.C.B during Valve opened as wanted. And then, Press again Auto-Setting Button(S1) on the P.C.B.

The actuator will recognize saved stroke(%) and operating between saved stroke.

◆ TYPE SUMMARY

GEA-55PD series operated with power source 24VAC (220VAC), control signal 0-10V, 2-10V, 4-20mA can show operating status of valve in digtal way and also possible to make sub-output Which can be checked by electric signal.

Model	Stroke (mm)	Force (N)	
GEA- 55PD	40	5500	
GEA-100PD	70	10000	

APPLICATION

This is to use for control 2-way & 2-way of GVS, GXS(Bronze Valve), GVF, GXF(Cast Iron Flange Valve), or other flange valve for Heating, Ventilation, H.V.A.C & Dynamic harvest system.

Valve	Туре	Pressure rating	
2-Way	Single , Double	PN5, PN10, PN20, PN25	
3-Way	Mixing, Diverting	PN5, PN10, PN16	

Model	GEA-55PD		GEA-100PD	
Stroke (mm)	40		70	
Actuating thrust (KN)	5.5		10.0	
Positioning speed(50/60)	1.2/1.3 (mm/sec)		1.2/1.3 (mm/sec)	
Power supply (Volt)	24VAC	220VAC	24VAC	220VAC
Frequency (Hz)	50 / 60			
Power consumption(VA)	58	62	79	88
Innut Cianal	(24VAC: 0~10V/2~10V/4~20mADC Switchable)			hable)
Input Signal	(Selecta	(Selectable 220VAC: 0~10V or 2~10V, 4~20mADC)		
Output Signal	OUTPUT: Selectable 0~10V or 2~10V or 4~20mADC when Order			
Operating mode.	S4Min. 30%, Duty cycle Max.600, EN60034-1			
Space heater	8W			
Motor protection	Thermal protector (Insulation class F)			
Ambient temperature	−15 ~ 65°C			
Ambient humidity	5 ~ 95% Rh(Non-Condensation)			
Housing protection	IP 67			
Conduit Entries	PF½" X 3EA			
Weight(Kg)	11 12		2	

♦ SAFETY TEST FOR ELECTROMAGNETIC WAVES OBSTACLE

SAFETY STANDARD : CE (No : M8A091270564002) EMC STANDARD : EN ISO 12100-1:2003

♦ ORDERING

GEA-□□PD

1)Operating power source for GEA-55PD , 100PD are 24VAC as basic and 220VAC is optional.

2) Frequency is 60Hz as basic and 50Hz is optional at order

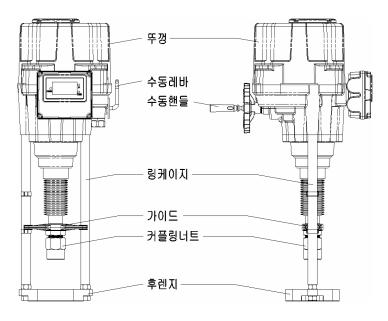
3)Optional Control output signal for GEA-55PD , 100PD at order..

♦ ELECTRIC DATA

	1-Phase			
Rated current (A)	24VAC		220VAC	
. ,	50Hz	60Hz	50Hz	60Hz
GEA- 55PD	2.4	2.1	0.28	0.27
GEA-100PD	3.3	3.0	0.41	0.40

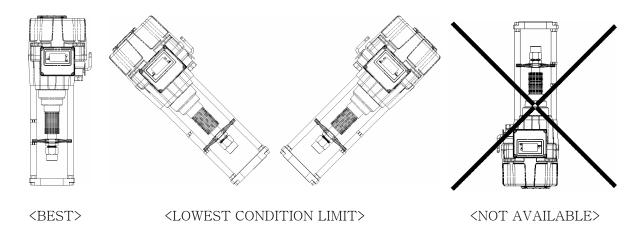
◆ DESIGN FEATURE

- Easy to assembly 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

You should notice all guides before installation of valve.

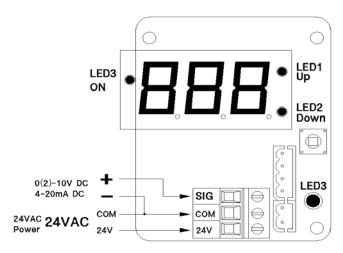


◆ COMMISSIONING NOTES

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

1) Coupling Piece: Moving toward to valve : VALVE OPEN

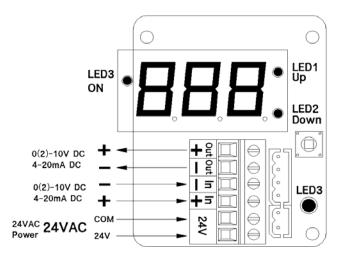
2) Coupling Piece: Moving toward to Actuator: CLOSE VALVE



GEA-55PD, 100PD

AC24V

INPUT: 0-10V/4-20mA/2-10VDC COMMON , NON-OUTPUT

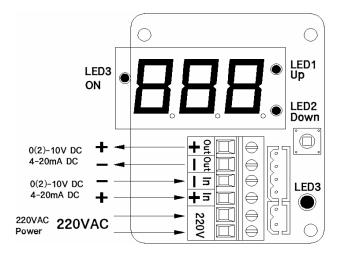


GEA-55PD, 100PD

AC24V

INPUT/OUTPUT

: Selectable 0-10V,4-20mA,2-10VDC (OPTIONAL)

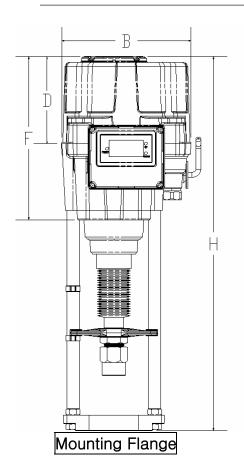


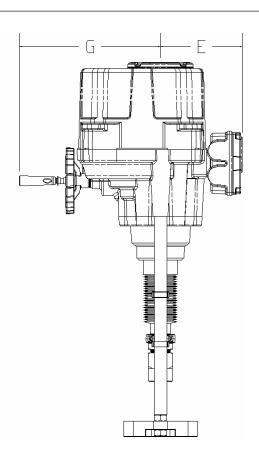
GEA-55PD, 100PD

AC220V

INPUT/OUTPUT

: Selectable 0-10V,4-20mA,2-10VDC





Model	GEA-55PD GEA-100PD		
В	206	206	
Н	570.5	595.5	
D	139	139	
F	260	260	
E	130	130	
G	225	225	

Mounting Flange Dimension

	Center Hole (X1)	Side Hole (X 2)	Thickness (mm)
Flange Size -1 (Standard)	Ø 51	Ø 12.5	25
Flange Size -2	Ø 71	Ø 12.5	25
Flange Size -3	Ø 81	Ø 12.5	24
PCD on Flange	130mm		
Pillar (Yoke) Threads		M12	