DAMPER & VALVE MOTOR ACTUATORS

Type EGK & WGK

GENERAL DESCRIPTION

- Series GK motor actuator can provide On-Off, proportional or floating control of damper, valve or other controlling devices.
- Balancing relay without contact causes no burn-out.
- Type EGK is for damper.
- Type WGK is for valve.
- Type TAK-10-40 transformers (line volt. \rightarrow 24V. AC) available upon request.

TYPE NUMBER SELECTION (SPECIFICATIONS)			
Power requirement:	24V. AC ±10%, 50/60Hz		
Max names annumations			

21VA (without spring return action)
24VA (with spring return action)
0 to 135Ω
4 to 20mA. DC
(Input Impedance 250 Ω)
1 to 5V. DC
(Input Impedance 100k Ω)

Type: EGK

Torque:	12.2N·m {1.25 kg·m} (without spring return action) 3.9N·m {0.4 kg·m} (with spring return action)
Rotation angle	
	(without spring return action) 90 to 160°
	(with spring return action) Delivery Setting 90°
Timing:	80 sec/160°
Ambient temp.:	-20 to 55°C
	(without spring return action) -10 to 55°C
Weight:	(with spring return action) 4.3kg
-	(without spring return action) 6.1kg
	(with spring return action)



Type EGK



Type WGK

Type: WGK	
Thrust:	1220N {125 kgf}
	(without spring return action)
	390N {40 kgf}
Other	(with spring return action)
Stroke:	14 to 50mm
	(without spring return action)
	14 to 30mm
	(with spring return action)
	Delivery Setting 20mm
Timing:	80 sec/stroke 25mm
Ambient temp.:	-20 to 55°C
	(without spring return action)
	—10 to 55°C
	(with spring return action)
Weight:	5kg
	(without spring return action)
	6.7kg
	(with spring return action)

DAMPER MOTOR SELECTION

Function	On–Off/Floating Control	Without Positioning Balance Relay	With Positioning Balance Relay	With Positioning	Balance Relay
Model	*1 On–Off/Floating	*2 On–Off Servo	*3 Resistance Input	*4 Current Input	Voltage Input
Standard	EGK–N500A	EGK–N600 A/S	EGK–N700 A/S	EGK-N701 A/S	EGK-N702 A/S
With Auxiliary Potentiometer	_	EGK–N610 A/S	EGK–N710 A/S	EGK-N711 A/S	EGK-N712 A/S
With Auxiliary Switch	EGK–N520A	EGK–N620 A/S	EGK–N720 A/S	EGK–N721 A/S	EGK-N722 A/S

VALVE MOTOR SELECTION

Function	On–Off/Floating Control	Without Positioning Balance Relay	With Positioning Balance Relay	With Positioning Balance Relay
Model	*1 On-Off/Floating	*2 On–Off Servo	*3 Resistance Input	*4 Current Input Voltage Input
Standard	WGK–N500A	WGK–N600 A/S	WGK–N700 A/S	WGK–N701 A/S WGK–N702 A/S
With Auxiliary Potentiometer	—	WGK-N610 A/S	WGK–N710 A/S	WGK–N711 A/S WGK–N712 A/S
With Auxiliary Switch	WGK–N520A	WGK-N620 A/S	WGK–N720 A/S	WGK–N721 A/S WGK–N722 A/S

* 1. The motor actuates with On–Off or floating signal from sensor.

*2. The motor actuates with proportional signal from electronic sensor (Example: Type RBE Control Unit).

*3. The motor actuates with the signal between 0 and 135Ω from electric sensor (Example: Type PWS Thermostat).

*4. Spring Return Type is so designed that actuator shaft returns to safe side on current failure.

- Auxiliary potentiometer is to provide the signal between 0 and 135Ω in accordance with motor angular rotation for output.

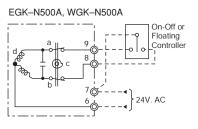
· Auxiliary switch provides the contact signal of S.P.D.T. for output.

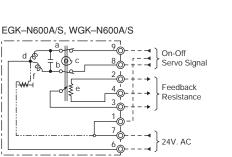
Enclosure: IP62

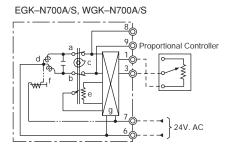
5/JGInoMIX/J

INTERNAL WIRINGS

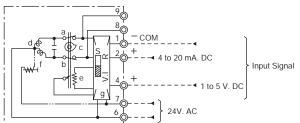
- Check power supply to be 24V. AC $\pm 10\%$.
- Wiring is to be based on the technical standard of electrical installation. Be assured to use covered copper wire larger than 1.2 mm dia.
- Terminal wiring should be conducted with flexible wire of adequate length to prevent wire disconnection from slight move of the motor.

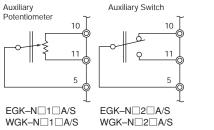


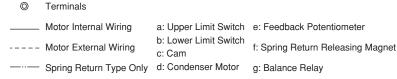




EGK-N701A/S, N702A/S, WGK-N701A/S, N702A/S

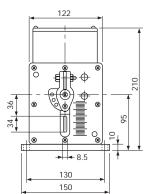




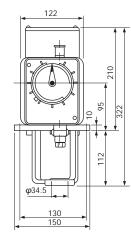


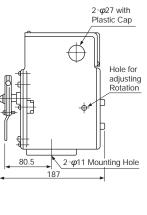
DIMENSIONS

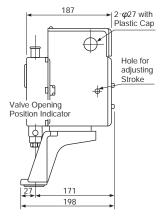
Type EGK-N···A

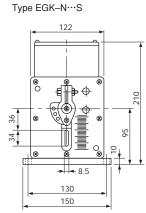


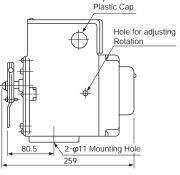
Type WGK-N···A



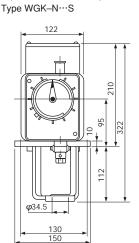


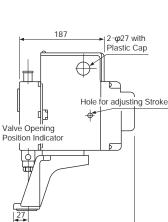






2*-φ*27 with





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