



# ELECTRIC ACTUATOR HQ-006

Small, light, compact and 0-320° turn design for  
small size valve automation  
WEATHERPROOF TYPE



Various Colors & Design for OEM

**Factory**  
**HK Contromatic Co., Ltd.**

425-110, 4ba-720 Sunggok-Dong,  
Daejeon-gu, Ansan-shi, Kyungki-Do, Korea  
Tel : 82-31-488-8266 Fax : 82-31-488-8269  
Internet : <http://www.hkcon.co.kr>  
E-mail : [hkcon@hkcon.co.kr](mailto:hkcon@hkcon.co.kr)



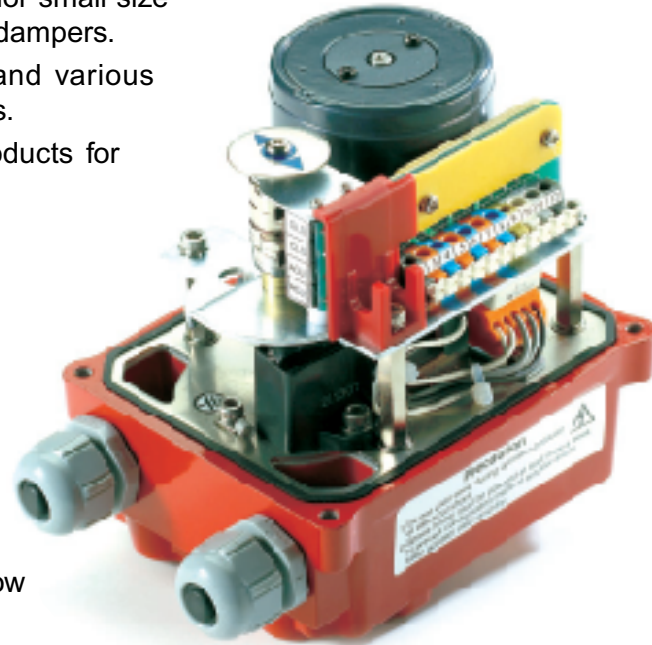
**VALVE AUTOMATION**

## DESCRIPTION

HQ-006 Actuator is newly designed and invented for small size valve automation like ball, butterfly, plug and even dampers. Small, light and compact design, high torque and various control options will meet your specific requirements. HQ provides high technical service & quality products for your automation system.

## FEATURES

- Compact and light due to high grade aluminum alloy housing.
- High resistance for corrosion due to hard anodizing on inside & outside and polyester powder coating on external surface
- Output torque : 60Nm(6kg.m)
- The actuator motor is reversible, high torque and low current design.
- Solid with O-ring system giving Weatherproof (IP67)



## STANDARD CONFIGURATION

- Manual handwheel
- Wide, easy mounting base standard to ISO5211(F03/F05/F07)
- Standard 4 limit switches.
- 2 for operation, 2 for extra(dry contacts)
- Captive cover bolt.
- Space heater.
- Limit switches for easy and tight setting.
- Terminal block. (11P)
- Standard color : Red or Blue



## OPTION CONFIGURATION

- Position Indication Unit (Potentiometer kit, PIU)**  
High resolution potentiometer with precisely machined gearing directly engaged with driving shaft provides continuous monitoring of position of valve and actuator



- Proportional Control Unit (PCU)**  
-HQ PCU is a combination of electronic positioner.  
-Input signal range : 4~20mA, or 0~10VDC  
-Output signal range : 4~20mA, or 0~10VDC  
-Adjustable range: zero 8mA, open 16mA  
-Position conversion accuracy : 0.5~1.5%(depends on installation)



## PERFORMANCE

TYPE (MODEL)	MAXIMUM OUTPUT TORQUE		OPERATING TIME 60/50Hz	MOUNTING SIZE	MOTOR CLASS FRAME SIZE		RATED CURRENT(A) 60Hz			DUTY CYCLE IEC 34-1	NUMBER OF HANDLE TURN	WEIGHT
	Kg.m	N.m			AC 1PH. 60Hz/50Hz	DC	110V	220V	24V			
HQ-006	6	58	12/14	ISO5211	W	F	0.4 / 0.39	0.2 / 0.19	0.2	S2(%)	N	Kg

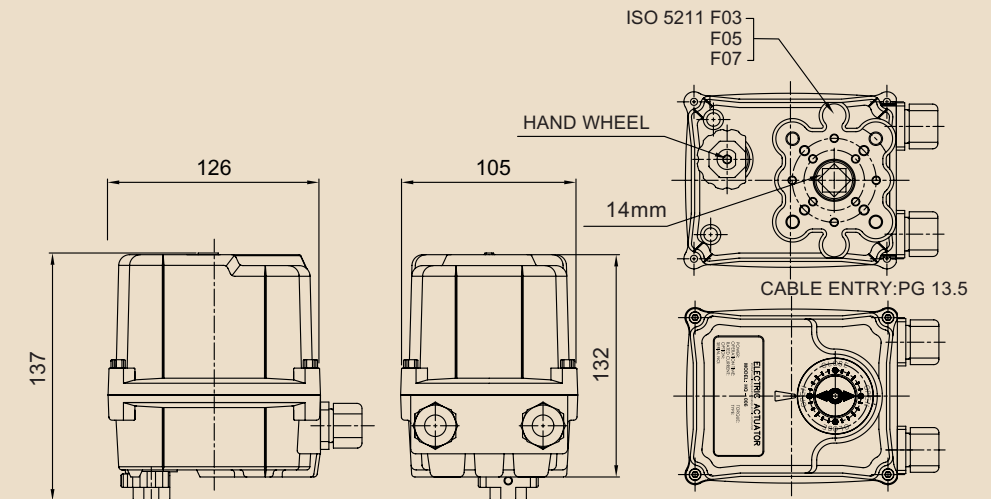
## STANDARD SPECIFICATION

Enclosure	Weatherproof enclosure IP67
Power supply	110/220V AC 1PH, 50/60Hz, ± 10%
Duty cycle(on-off duty)	S2 35%
Motor	Reversible motor
Limit switches	2 x open/close, SPDT, 250V AC 3A rating
Additional limit switches	2 x open/ close, SPDT, 250V AC 3A rating
Space heater	2W (110/220V AC)Anti-condensation
Manual override	Handwheel (hexagon design)
Cable entries	Two PG 13.5 Tap(Option : NPT1/2 , PT1/2 , PF 1/2 )
Movement angle	320± 10 (0 ~330 )
Ambient temperature	-20 ~70
External coating	Polyester powder coating

## OPTION SPECIFICATION

PIU	Potentiometer unit(1K~10K)
PCU	Proportional control unit (in/out:0~10V, 4~20mA)
CPT	Current position transmitter (Output 4~20mA DC)
DCM	DC motor (24VDC)
LCU	Local control unit -remote/local -open/stop/close

## DIMENSION



## APPLICATION



BUTTERFLY VALVES  
BALL VALVES  
DAMPER VALVES  
PLUG VALVES

VALVE AUTOMATION (ROTARY MOTION VALVES)