

Shinhwa Engineering

All about Actuators & Positioners General Catalog



SEG SHINHWA ENG. CO., LTD.



Damper Actuator (CA)

Damper actuator is a product unifying all components such as motor, reducer, limit s/w, overload torque s/w, current transmitter, balancing relay, manual handle device, and local control box, and especially allows for easy maintenance and management with high reliability. It is a electrically driven equipment used for air control driving item, boiler, incinerator, burner for combustion driving control or damper for pressure control and valve control etc.

I FEATURES

- Precision control feature
- Unified compact type
- Excellent durability
- Separation structure
- Overload protection apparatus
- Convenient feature of manual operation
- Protection structure: IP-65



- Completely enclosed outdoor type
- Operating angle: 90°
- Operating Temp.: -20°C ~ 60°C
- Speed: 30sec/90°, 60sec/90°
- Humidity: below 85%
- Color: CA type Munsell 7.5 BG 6/1.5
- Contact signal Current signal(4~20mA D.C)

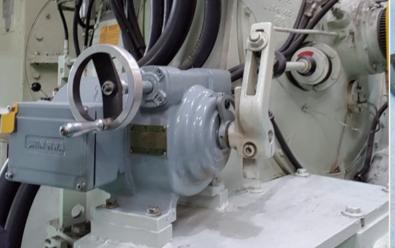
I SPECIFICATION

- Type : CA-01H ~ CA-10H, CA-20H ~ CA-120H













Damper Actuator(CM)

I FEATURES

- Maximum precision control is available
- Unified type compact
- Excellent durability
- Separation structure
- Overload protection apparatus
- Convenient feature of manual operation
- Voltage supply: 220 V AC or 440 V AC

STANDARD SPECIFICATIONS

- Completely enclosed outdoor type
- Operating angle: 90°
- Operating Temp.: -20°C~60°C
 Speed: 30sec/ 90°, 60sec/ 90°
- Humidity: below 85%
- Color : Black, Red
- Contact signal Current signal(4~20mA D.C)





I SPECIFICATION

Type : CM-01H ~ CM-10HTorque : 15Kg·m ~ 100Kg·m



Damper Actuator(DMR)

The Damper Actuator is assembled compactly with a motor, a reducer, a manual handle, an opening transmitter, limit switchs and torque switchs for overload. The twelve type ranging from 10kg·m to 3000kg·m are standard, and are used with various equipment.



I STANDARD SPECIFICATIONS

- Main : 220V, 440V, AC50/60Hz, 3Ф
- Insulation class: E or B class
- Torque switchs : open/close 2 contacts
- Limit switchs: 4,6, or 8 contacts
- Mechanical opening indicator: 0~90°
- Temperature : -10°C~45°C
- Humidity: below 85%
- Color: Munsell 7.5GY 6/10
- Contact signal Current signal(4~20mA D.C)

FEATURES

- Torque switches are fitted on all type
- Using continuous rating motors(under 400kg·m)
- Excellent durability
- Small and high powered reducer(special gears)
- Zero adjustment mechanism for limit switchs.
- Protection structure: IP-54

I SPECIFICATION

Type : DMR-0105 ~ DMR-30005
Torque : 10Kg·m ~ 3000Kg·m





Motor cylinder

The motor cylinder is a linear actuator operated by a motor through simple electrical wiring. Its structure is completely enclosed, and consists of motor combined with precision deceleration gear, high efficiency lead screw, and overload protection.

I FEATURES

- Simple and Economical Equipment
- Overload Protection
- Continuous Pushing Stop
- Retaining Load
- Simple Installation and Maintenance
- Manual Operation

I SPECIFICATION

• Type : MSB-100K ~ MSB-1T,

M(L)MB-100K ~ M(L)MB-100T

• Thrust Load: 100Kg ~ 1TON,

100Kg ~ 100TON

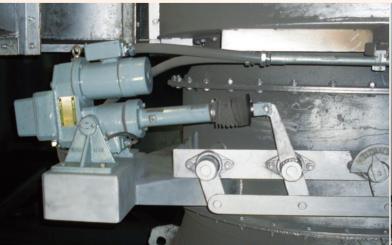




PLB26T-8.5JT THRUST LOAD: 26TON



PLB32T-5JL THRUST LOAD: 32TON







Motor cylinder

STANDARD SPECIFICATIONS

Completely enclosed outdoor type

• Operating temp. : -15°C~60°C

• Humidity : below 85%

• Power: 220/440V, 3Ph, 60Hz

• Insulation : Class B

Rating: 30minutes, 25% ED
Brake: Current Response type
Color: Munsell 7.5 BG 6/1.5





Synchro cylinder



SGB50T-7.5J THRUST LOAD: 50TON



SGB20T-5J THRUST LOAD: 20TON

Control Jack



SJ12.2T-15.6JL THRUST LOAD: 12.2TON







Pneumatic Control Drive

Pneumatic control drive is an equipment for remote position controlling of devices such as dampers, fan inlet vanes, butterfly valves, lever operated valves and other final control elements. The actuator has a completely enclosed structure and consists of an air cylinder combined linkage, positioner, air control set and electrical position transmitter etc.

I FEATURES

- Continuous Operation
- Adjustable Output Characteristics
- Applicable to diverse environments
- · Wide Range of Options Available
- Manual Operation
- Protection structure: IP54, IP65

STANDARD SPECIFICATIONS

- Completely enclosed outdoor type
- Operating Temp. : -10°C~50°C
- Humidity : below 85%
- Rating: Continuous
- Input signal: Current 4~20mA D.C,
- Air pressure 0.2~1.0 barG
- Operating air pressure: 3~7 barG
- Operating angle: 90°±3°
- Color: Munsell 7.5 BG 6/1.5

I SPECIFICATION

• Type : SE-01H ~ SE-05H,

SE-08H ~ SE-100H

• Torque : 17Kg m ~ 45Kg m,

85Kg·m ~ 920Kg·m, 970Kg m ~ 1730Kg m













Smart Positioner

The SP740 Smart positioner provides precise control of valve modification according to the 4-20 mA current signal input from the controller and the central control center.

The SP740 Smart position is designed for easy commissioning with a simple setup.

Excellent product with high precision and accuracy for all instruments, showing high reliability in accurately translating control signals into valve readings.

I FEATURES

- High reliability
- Single or Double acting actuator
- Quick and easy operation
 - Auto calibration
 - Simple Initialization
 - Self diagnostic function
- LCD and 4 button local control
- Enclosure IP66
- Global approvals for explosion protection
 - IECEx KOSHA
- Vibration and impact resistance
- HART communication



STANDARD SPECIFICATIONS

Input Signal: 4~20mA DC

Impedance : Max.450Ω @ 20mA DC

Air Connection: PT 1/4, NPT 1/4

Pres. Gauge Connection: PT 1/8, NPT 1/8

Conduit Entry: PF(G) 1/2, NPT1/2

• Supply Pressure: 0.14~0.7 MPa

Explosion Proof Grade: Ex ia IIC T5/T6

(Certification in progress)

• Enclosure : IP66

Ambient Temperature : -20~60°C

Linearity: ±0.5% F.S.Hysteresis: ±0.5% F.S.

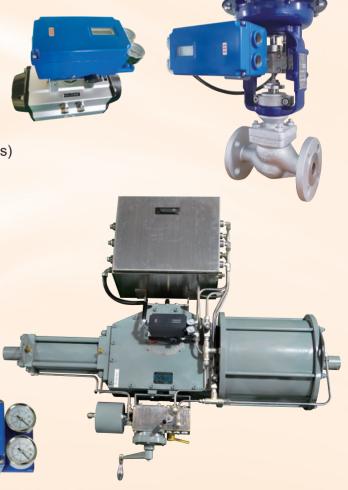
Cam Characteristic: Linear(L), Square(S),

Square root(R), User Set

• Humidity: 5~95% RH at 40°C

Communication : HART(Option)

Feedback Signal: 4~20mA (DC10~30V)







SEG

Production item

- Motor Cylinder
 - **Electrical Actuator**
 - **Pneumatic Actuator**
- **Smart Positioner**

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