



MC SERIES MEMBRANE PNEUMATIC ACTUATORS



CDG Actuator Manufacturer

Pneumatic Actuator

©CDG Actuator Manufacturer

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MC



COMPANY HISTORY

1963 : Founded CDG.

1985 : CDG brand creation.

1989 : Production of pneumatic actuators, and Italy FABIA to establish a cooperation.

1992 : With the United States FAIRCHILD cooperation, Production of electric actuators.

2001 : Focus on the production and assembly of CDG.

2005 : Production of hydraulic actuators.

2006 : Production of valves.

2011 : Oil station development and use.

2016 : Set up a number of representative offices in China.

ENTERPRISE PROFILE

The CDG is a famous actuator manufacturers, the company is headquartered in America's largest city, Detroit, Michigan is located in the northeastern United States, Canada, Detroit river north of Windsor an important port city. With strong industrial base and freight advantage.

CDG products have unique design, short delivery time, competitive price and excellent after-sales support. As a professional manufacturer of valves, it quickly became the industry leader.

CDG has more than 50 years experience in the valve industry. The r&d department USES these experiences to constantly design new products, improve existing products, and adapt to changing market demands and constantly improving international standards.

CDG can provide standard and non-standard solutions that can be customized according to customer needs.

CDG has created a wide range of reliable products. CDG is favored and admired by the world's leading EPC and oil and gas companies because of its high performance in extreme conditions. Its products are used in power plant, petrochemical, metallurgy, papermaking, automobile and

more Product certification based on customer requirements and government legislation is a guarantee of product quality. CDG USES advanced testing laboratories to ensure the durability of its products. Fire safety, high temperature and low temperature testing can be carried out under extreme conditions.

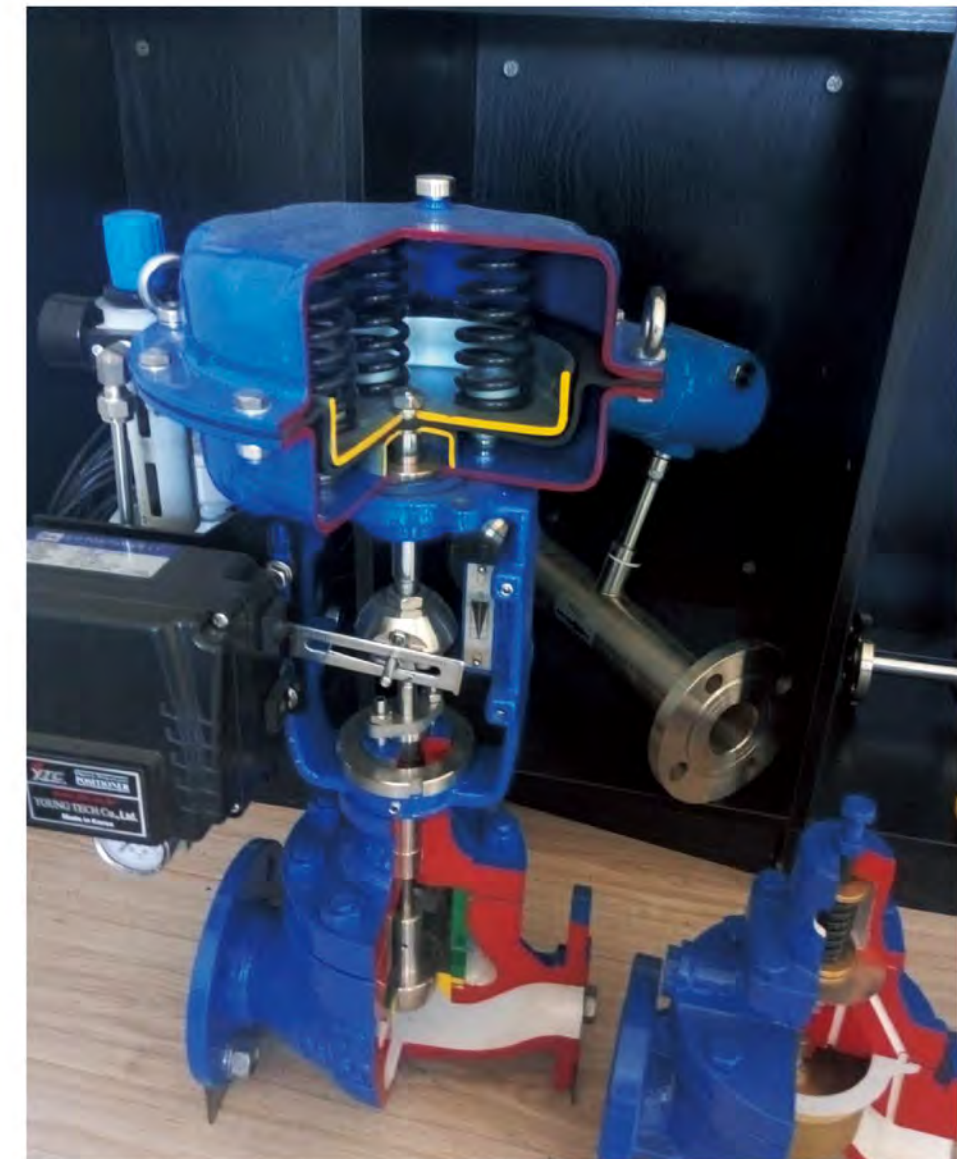
CDG good position, provide comprehensive after-sales support, fast, efficient, with unparalleled expertise. Our skilled engineers and technicians work 24 hours a day to respond to customer queries, solve problems, and provide reliable solutions. A comprehensive after-sales service creates a complete solution, customer support, covering all requirements.

CDG is a long-term, reliable, available and cost-effective partner for your existing and new business.

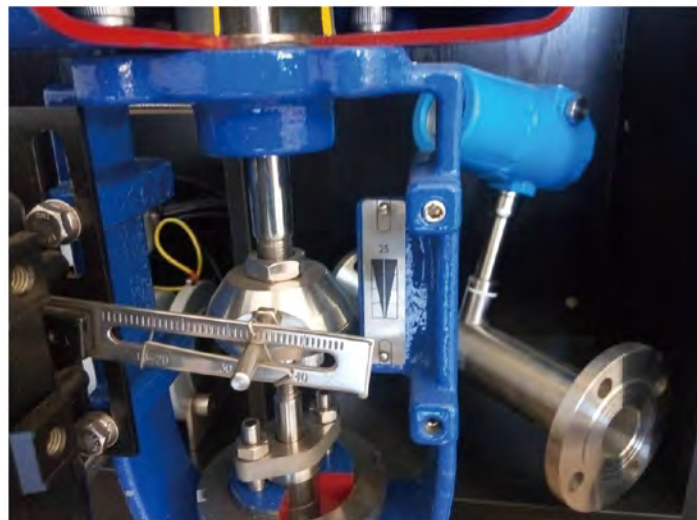
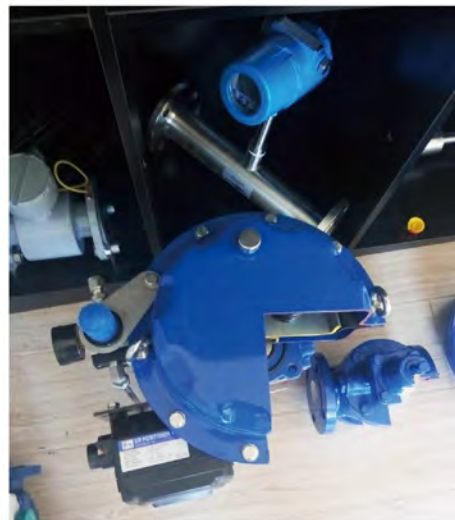
CDG brand is comprehensive, including valve and oil station, pneumatic actuator, electric actuator and hydraulic actuator and other related fields. To enable CDG to meet different needs it can be sold separately, and can be matched in a complete set, so that users can reduce their worries.

MC MEMBRANE

MC film series is a series of direct stroke pneumatic actuators specially designed for regulating valves. Compact structure, large output force, light weight, high reliability, easy operation and so on.



MC film actuator adopts spring balance, responds to the pneumatic output signal added to the film of actuator by valve positioner, and determines the position of valve core in the valve according to the change of signal. The zero position setting of the actuator is determined by the compression of the actuator spring, and the travel range is determined by the stiffness of the actuator spring.

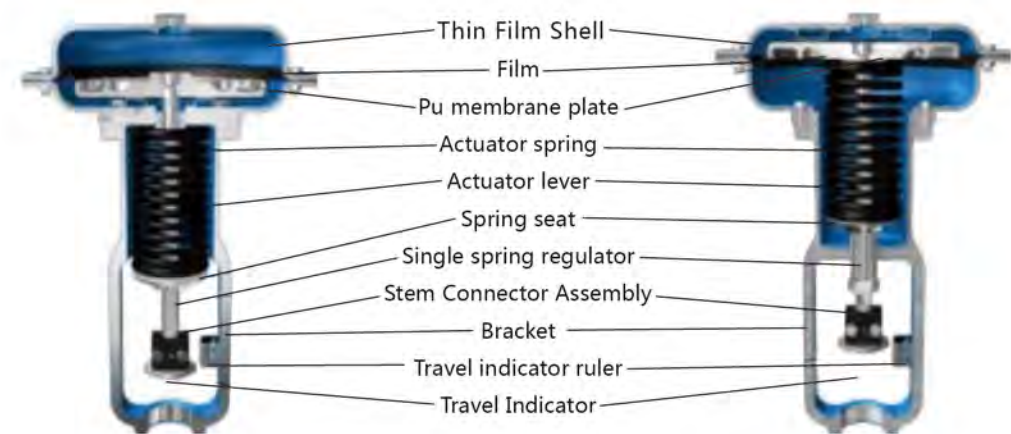


MC thin film actuator can be used with direct stroke valves (such as single, double seats, sleeves, diversion valves) and similar applications. It is widely used in electric power, metallurgy, petroleum, chemical industry, paper making, pharmaceutical, food, machinery, environmental protection and other industries.



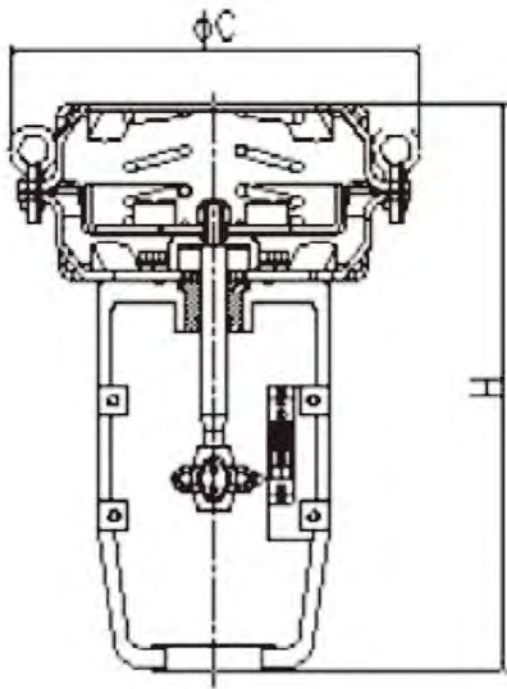
Standard specification

Structural diagram



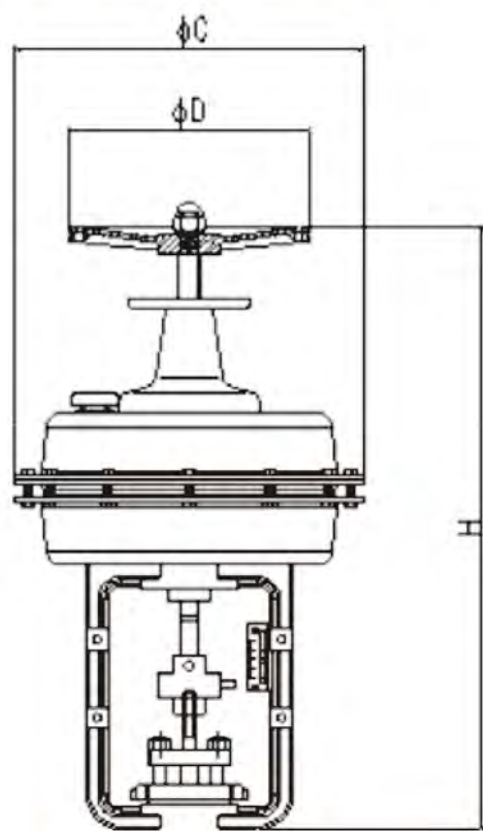
type	Positive effect	When the air pressure on the top of the diaphragm box increases, Actuator stem moving downward
	Reaction	When the air pressure at the bottom of the diaphragm box increases, The stem of the actuator moves upward
Texture of material	Thin Film Plate	carbon steel
	Film	NBR
	Actuator stem	Stainless steel 304
	Bracket	carbon steel
Ammunition range		0. 02- 0. 10 , 0. 08- 0. 24MPa
Gas supply		0. 14- 0. 5Mpa
air connection		1/4" NPT
ambient temperature		- 30°C ~ +70°C
Enclosure		Handwheel, positioner, lock valve, solenoid valve, etc.
colour		GENTIAN BLUE RA L5010

The dimensions



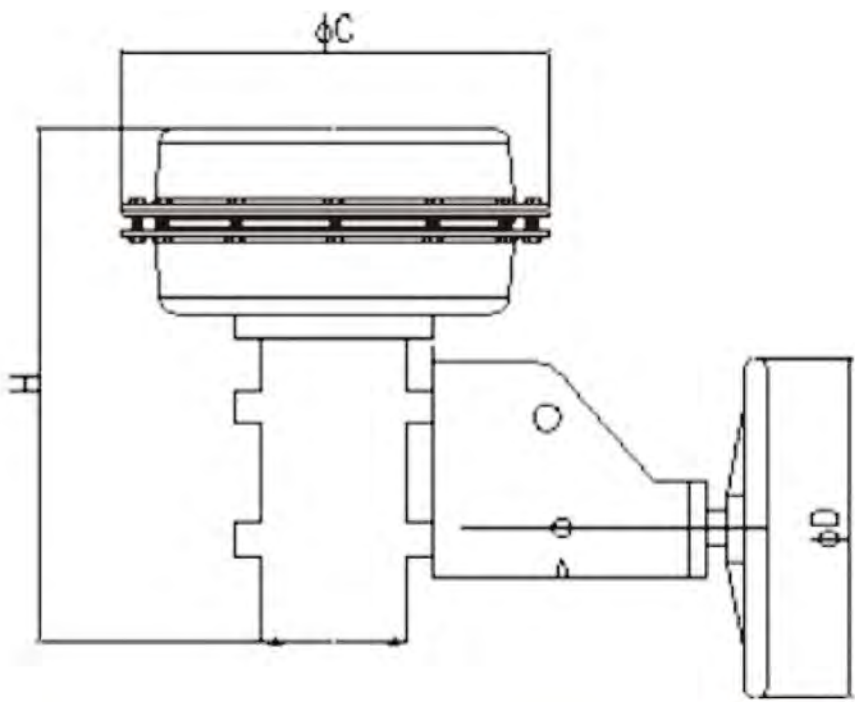
Model	Cylinder diameter (ΦC)	Trip (mm)	Thrust N (0.5Mpa Working Pressure)	height (mm)	Film (cm ²)	weight (kg)
MC 220/20	220	20	1863	264	160	7
MC 220/20	270	25	3138	331	310	16
MC 350/40	350	40	5394	409	550	27
MC 470/75	470	75	10787	553	950	72
MC 620/100	620	100	25000	713	1440	133

Multi-Spring Diaphragm Actuator with Top Handle



Model	Cylinder diameter (ΦC)	Trip (mm)	height (mm)	Film (mm)	weight (kg)
MC 220/20	220	20	364	140	11
MC 270/25	270	25	481	200	23
MC 350/40	350	40	649	355	46
MC 470/75	470	75	853	570	95
MC 620/100	620	100	1113	830	165

Size for side - mounted handwheel



Model	Cylinder diameter (ΦC)	Trip (mm)	height (mm)	Film (mm)	weight (kg)
MC 270/25	270	25	331	200	25
MC 350/40	350	40	409	355	49
MC 470/75	470	75	553	570	104
MC 620/100	620	100	713	830	180