



# | Valves with the Leading Edge

## Pneumatic Cylinder Actuators

VAAS manufactures an extensive range of pneumatic cylinder actuators for linear valve actuation requirements. Primarily designed for use with VAAS knife gate valves. These can be used for other linear actuation requirements also.

VAAS pneumatic cylinder is a double acting design and is available in a wide range of cylinder diameters and stroke lengths.

These actuators feature a corrosive resistant tube made of fiberglass and offer a number of advantages;

- ◆ Lower weight compared to metallic cylinders; specially ideal for horizontal mounting
- ◆ Lubricated for life with molybdenum disulphide coating on the inside; lubrication of air is not required
- ◆ Field interchangeable with VAAS knife gate valve manual actuators



### Specifications

Type	Double-acting cylinder
Size range	4", 6", 8", 10", 12", and 14" (higher sizes on application)
Pressure rating	Suitable for normal operation with air supply up to 100psi. Cylinder tube rated and tested for 290psi and 212 deg F max.

### Materials

Cylinder tube	Fiberglass reinforced plastic
Piston	Cast iron
Piston seals	PTFE with Nitrile rubber backup ring
Piston rod	304 stainless steel (Other materials available on request)
Piston rod seal	Polyurethane
Bottom end cap	Ductile iron
Top end cap	Steel
Air connections	1/2" or 3/4" NPT (F)
Stroke adjustment	Provided for small adjustment of travel
Cushioning	Available as an option for outward travel of piston
Painting	Blue enamel paint. Other painting options available

## Weights

Model	Cylinder Diameter (Inches)	Stroke (Inches)	Weight (lbs)
CCGC4	4	2	13
		3	15
		4	18
		5	20
		4	22
		5	29
CCGC6	6	6	31
		8	33
		10	35
		12	40
		14	44
		16	49
		8	49
		10	53
		12	57
CCGC8	8	14	62
		16	66
		18	71
		20	75
		10	88
		12	93
		14	99
		16	106
CCGC10	10	18	115
		20	124
		24	132
		12	132
CCGC12	12	14	139
		16	148
		18	159
		20	172
		24	187
		20	243
CCGC16	16	34	265

## Selection Table for VAAS Knife Gate Valves

Valve Size (Inches)	Actuator Model	Maxium Pressure Differential (psi)			
		Pneumatic Actuator sizing 60psi Air Supply		Pneumatic Actuator sizing 90psi Air Supply	
		Dry Solid Slurries Paper Stock	Liquids & Gases	Dry Solid Slurries Paper Stock	Liquids & Gases
2 & 3	CCGC4	87	150	87	150
4	CCGC4	87	150	87	150
5 & 6	CCGC4	--	150	--	150
	CCGC6	87	--	87	--
8	CCGC4	--	60	--	87
	CCGC6	--	150	87	150
10	CCGC6	--	60	--	116
	CCGC8	--	150	87	150
	CCGC10	87	--	--	--
12	CCGC6	--	30	--	87
	CCGC8	--	100	87	150
	CCGC10	--	150	--	--
	CCGC12	87	--	--	--
14	CCGC6	--	30	--	87
	CCGC8	--	60	--	116
	CCGC10	--	100	87	150
	CCGC12	87	150	--	--
16	CCGC6	--	--	--	60
	CCGC8	--	30	--	100
	CCGC10	--	87	87	150
	CCGC12	87	150	--	--
18	CCGC8	--	30	--	87
	CCGC10	--	60	87	150
	CCGC12	87	150	--	--
20	CCGC8	--	--	--	60
	CCGC10	--	30	--	116
	CCGC12	--	87	87	150
24	CCGC10	--	--	--	100
	CCGC12	--	60	87	150
	CCGC16	87	150	--	--

## Options

VAAS pneumatic cylinder actuators can be supplied with a variety of accessories required for specific application requirements.

- Solenoid valves
- Limit switches
- Air filter regulators
- Speed control valves
- Air lock valves
- Positioners
- Fail safe systems
- International position stops

### VAAS AMERICAS

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