

## 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 corrosion resistant cylinder 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
Cylinder size range	100, 150, 200, 250, 300 and 400mm
Rating	Suitable for normal operation with air supply upto 8 bar. Cylinder tube rated and tested for 20 bar and 100 deg C max.
<b>Materials</b>	
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 endcap	Cast iron
Top endcap	Ductile iron
Tie rods	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 (mm)	Stroke (mm)	Weight (kg)
CCGC4	100	50	6
		80	7
		100	8
		125	9
CCGC6	150	100	10
		125	13
		150	14
		200	15
		250	16
		300	18
		350	20
		400	22
CCGC8	200	200	22
		250	24
		300	26
		350	28
		400	30
		450	32
CCGC10	250	500	34
		250	40
		300	42
		350	45
		400	48
		450	52
		500	56
CCGC12	300	600	60
		300	60
		350	63
		400	67
		450	72
CCGC16	400	500	78
		600	85
		500	110
		600	120

## SELECTION TABLE FOR VAAS KNIFE GATE VALVES

Valve Size (mm)	Actuator Model	Maximum Pressure Differential (bar)			
		Pneumatic Actuator Sizing 4 bar Air Supply		Pneumatic Actuator Sizing 6 bar Air Supply	
		Dry Solid Slurries Paper Stock	Liquids & Gases	Dry Solid Slurries Paper Stock	Liquids & Gases
50 & 80	CCGC4	6	10	6	10
100	CCGC4	6	10	6	10
125 & 150	CCGC4	-	10	-	10
	CCGC6	6	-	6	-
200	CCGC6	-	4	-	6
	CCGC8	-	10	6	10
250	CCGC6	-	4	-	8
	CCGC8	-	10	6	10
	CCGC10	6	-	-	-
300	CCGC6	-	2	-	6
	CCGC8	-	7	6	10
	CCGC10	-	10	-	-
	CCGC12	6	-	-	-
350	CCGC6	-	2	-	6
	CCGC8	-	4	-	8
	CCGC10	-	7	6	10
	CCGC12	6	10	-	-
400	CCGC6	-	-	-	4
	CCGC8	-	2	-	7
	CCGC10	-	6	6	10
	CCGC12	6	10	-	-
450	CCGC8	-	2	-	6
	CCGC10	-	4	6	10
	CCGC12	6	10	-	-
500	CCGC8	-	-	-	4
	CCGC10	-	2	-	8
	CCGC12	-	6	6	10
600	CCGC10	-	-	-	7
	CCGC12	-	4	6	10
	CCGC16	6	10	-	-

## OPTIONS

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

These include :-

- Solenoid valves
- Limit switches
- Air Filer Regulators
- Speed control valves
- Air lock valves
- Positioners
- Fail safe systems
- Intermediate position stop

Please refer Product Datasheet 400 for detailed specifications of accessories available



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