



Condensed Product Catalogue

Pneumatic Actuators



Valve Actuation and Automation Solutions

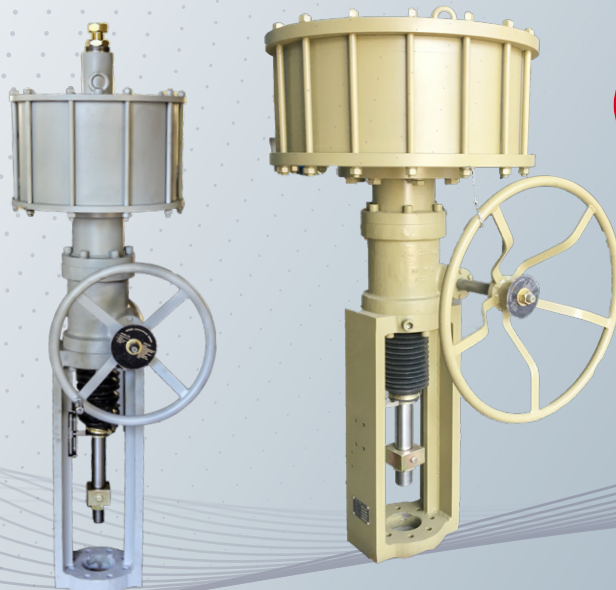
Piston Cylinder Linear Actuators

Double Acting

Double acting Pneumatic Actuators designed to operate gate and globe valve for on-off or regulating control services.

KEY FEATURES

- Heavy duty design for linear, modulating control and on/off application.
- Low friction piston seals and coatings reduce sliding friction and provides maximum corrosion resistance.
- The double acting construction allows rigid & precise positioning.
- Provides high thrust and faster response.
- Wider travel range.
- Actuator stem to valve stem coupling designed for easy removal and fixing.
- Optional mechanical limit Stop for travel / stroke adjustments.
- Optional Top / Side Mounted Hand-Wheel for manual operation.
- Optional volume tank or built-in volume chamber.(ASME Tank also available).
- Robust components for trouble free, low cost maintenance.
- Special protection coatings for corrosion environment.
- Stem protection bellows/gaiter available.
- Adjustable End Cushioning to prevent Valve Seat Damage on High Speed Operation.



SERIES: **PLA-DA**

SPECIFICATIONS

ACTUATOR MODEL	PLA-DA (Pneumatic Linear Actuators - Double Acting)										
SIZES(Inch's)	4	6	8	10	12	14	16	18	20	22	24
ACTION	Fail in Last Position										
STROKE RANGE WITHOUT HANDWHEEL	0.75 - 4	1 - 6			1 - 8	1.5 - 10	2 - 12		2 - 24		
STROKE RANGE WITH HANDWHEEL	0.75 - 2	1 - 4		1 - 6		1.5 - 6	2 - 8				
DESIGN PRESSURE	10 Bar (150 psi) Maximum										
SUPPLY PRESSURE	5.5 Bar (80 psi)										
MAX. THRUST	Upto 250,000 N										
OPERATING TEMPERATURE	Standard: -20° to +60°C, Low temp. service: -50° to +60°C ⁽²⁾ , High Temp. service: 0° to +100°C ⁽²⁾										
CYLINDER MATERIAL	Carbon steel, Stainless steel, Aluminium with Seamless ⁽²⁾ , Honed, Hard Chrome Plated Pipes										
HANDWHEEL OPTIONS	Size 4-14 actuators with a top-mounted										
			Size from 8 - 24 actuators with a gear operated side-mounted								
SERVICE	On-Off and Regulating										
PORT CONNECTIONS	¼" to ½" NPT(F)			½" to 1" NPT(F)							
OPTIONS	Mechanical limit stops, Accessories & Tubing, Volume tank, Offshore services, Marine service										
SPECIAL OPTIONS	End Cushioning ⁽²⁾ , Special Protective Coatings available										

- Notes:
- 1. Very large bore sizes, longer strokes and higher thrust Actuators are available on requests.
 - 2. For special type Actuator requirements contact LUSTRE CONTROLS.

PLA-DA

>Robust

>Versatile

>High performance

>Fail-safe design

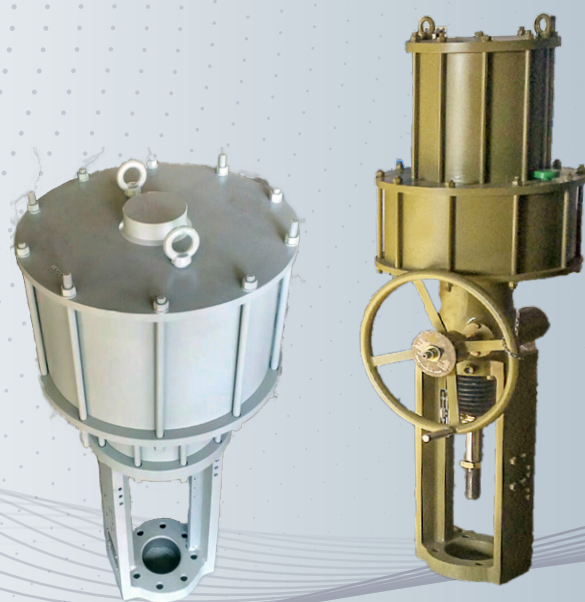
Piston Cylinder Linear Actuators

Single Acting

Single acting spring cylinder linear actuator is a powerful, high-performance pneumatic actuator, provides positive throttling or on-off operation for automatic control valves.

KEY FEATURES

- Precise movement together with high frequency response.
- Piston seals and surface coatings reduce sliding friction of cylinder.
- Spring can be mounted outside air cylinder depending on the actuator size and stroke to minimize residual volume.
- Wide range of springs are available to provide positive air fail action.
- Spring rates customized for maximum stiffness.
- Actuator stem to valve stem coupling design for easy removal and fixing.
- Robust components for trouble free, low cost maintenance.
- Special protection coatings for corrosion environment.
- Stem protection bellows/gaiter available.
- Optional mechanical Limit stop for travel/stroke adjustments.
- Optional Top / Side Mounted Hand-Wheel for manual operation.



SERIES: **PLA-SA**

SPECIFICATIONS

ACTUATOR MODEL	PLA-SA (Pneumatic Linear Actuators - Single Acting)										
SIZES(Inch's)	4	6	8	10	12	14	16	18	20	22	24
ACTION	Air Fail open (Direct action) / Air Fail Close (Reverse action)										
STROKE RANGE WITHOUT HANDWHEEL	0.5 - 2	0.5 - 4			1 - 6				2 - 8		
STROKE RANGE WITH HANDWHEEL	0.5 - 2	0.5 - 4			1 - 6				2 - 8		
SPRING RANGE	3-15 psi 6-30 psi 9-30 psi 11-30 psi 9-44 psi 21-34 psi 25-45 psi 30-64 psi										
DESIGN PRESSURE	10 Bar (150 psi) Maximum										
SUPPLY PRESSURE	5.5 Bar (80 psi)										
OPERATING TEMPERATURE	Standard: -20 to +60°C, Low temp. service: -50 to +60°C ⁽¹⁾ , High Temp.service: 0 to +100°C ⁽¹⁾										
CYLINDER MATERIAL	Carbon steel, Stainless steel, Aluminium with Seamless ⁽¹⁾ , Honed, Hard Chrome Plated Pipes										
HANDWHEEL OPTIONS	Size 4-14 actuators with a top-mounted										
			Size from 8 - 24 actuators with a gear operated side-mounted								
SERVICE	On-Off and Modulating										
PORT CONNECTIONS	¼" to ½" NPT(F)			½" to 1" NPT(F)							
OPTIONS	Mechanical limit stops, Accessories & Tubing, Offshore services, Marine service										
SPECIAL OPTIONS	End Cushioning, Special Protective Coatings available										

Note:

1. For special type Actuator requirements contact LUSTRE CONTROLS.



PLA-SA

- >Reliability
- >Heavy duty design
- >High performance
- >Economical

Piston Cylinder Linear Actuators

Power Cylinders

Power Cylinder can accurately & positively position all types of Plant regulators such as throttle valves, dampers and butterfly valves.

KEY FEATURES

- Rigid Construction, Low friction & Long life.
- Wide range of sizes and travel.
- Precise movement together with high frequency response.
- Cushioning facility available with Adjustable cushioning at both ends.
- Wide varieties of mountings available.
- Special protection coatings for corrosion environment.
- Stem protection bellows/gaiter available.



SERIES: **PLA-PC**

SPECIFICATIONS

ACTUATOR MODEL	PLA-PC (Pneumatic Linear Actuators-Power Cylinders)										
SIZES(Inch's)	4	6	8	10	12	14	16	18	20	22	24
ACTION	Double Acting										
STROKE RANGE(Inch's)	4 - 12	4 - 22	4 - 24	8 - 40*			8 - 20	8 - 24			
DESIGN PRESSURE	10 Bar (150 psi) Maximum										
SUPPLY PRESSURE	5.5 Bar (80 psi)										
OPERATING TEMPERATURE	Standard: -10° to +60°C, Special: -20° to +150°C										
MATERIAL OF CONSTRUCTION	Carbon steel, Stainless steel, Aluminium										
MOUNTINGS	Basic cylinder, Foot mounting, Front flange, Rear flange, Male clevis, Female clevis, Front trunnion, Rear trunnion, Centre trunnion										
MEDIUM	Compressed air – filtered – lubricated										
CUSHION	cushioning at both ends										
PORT CONNECTIONS	¼" to ½" NPT(F)			½" to 1" NPT(F)							
OPTIONAL INSTRUMENTATION	Air Filter Regulator, I/P Convertor, Air Lock Valve, Limit Switches, Position Transmitter, Manual Override handwheel										
SPECIAL OPTIONS	Turnbuckle, Special Protective Coatings available										

Note:
1. For Non standard or longer stroke cylinders, contact LUSTRE CONTROLS.

PLA-PC

>Rugged

>Corrosion resistance

>End cushioning



Valve Actuation and Automation Solutions

Lustre Controls can also package the Actuators by fixing / mounting the tubing and accessories like Positioners etc. based on the schematic diagram either designed by us or given by the customer.

Contact us

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