

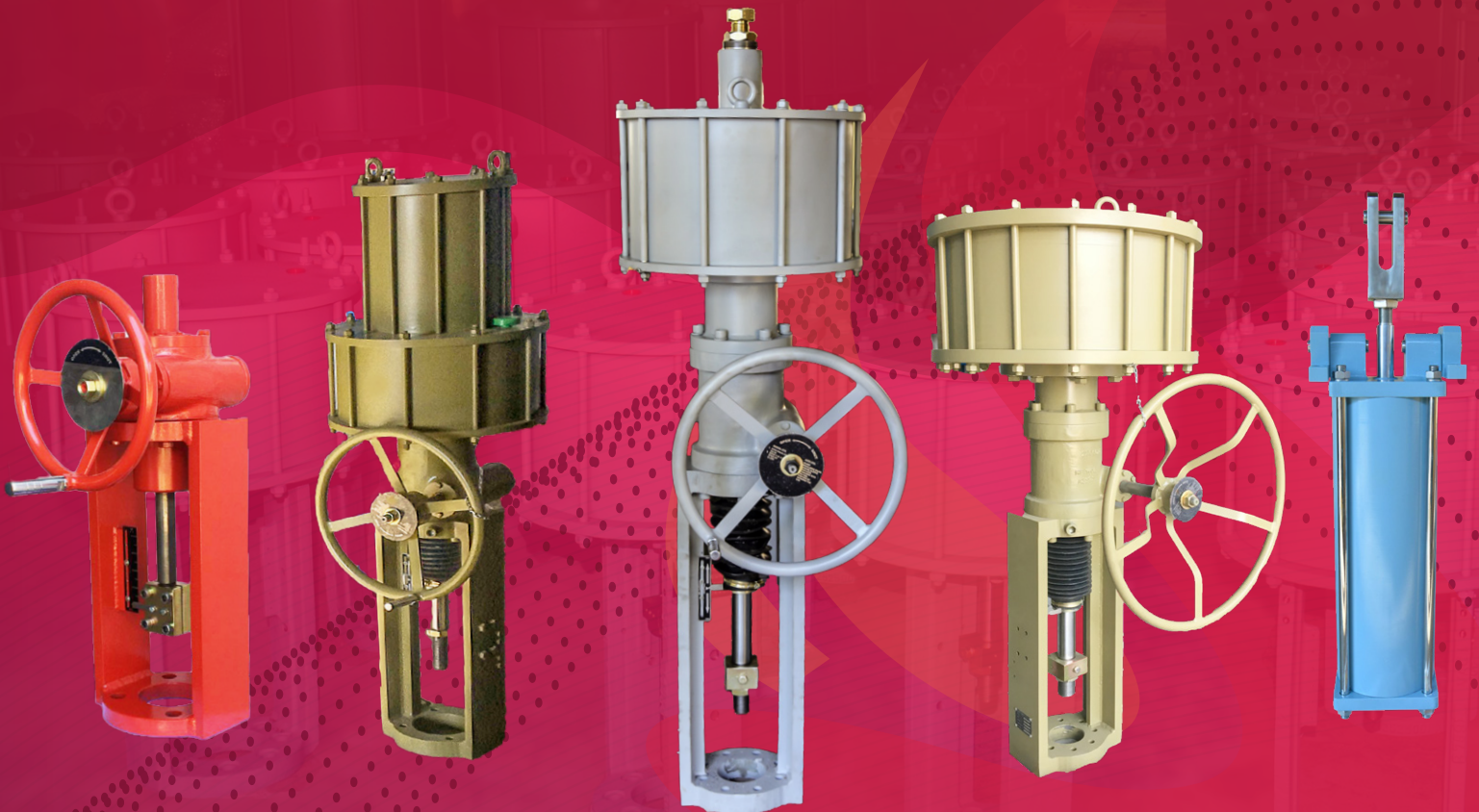


ISO 9001:2015 CERTIFIED



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 Converter, 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

Manual Handwheel Actuators Top/Side mounted Type

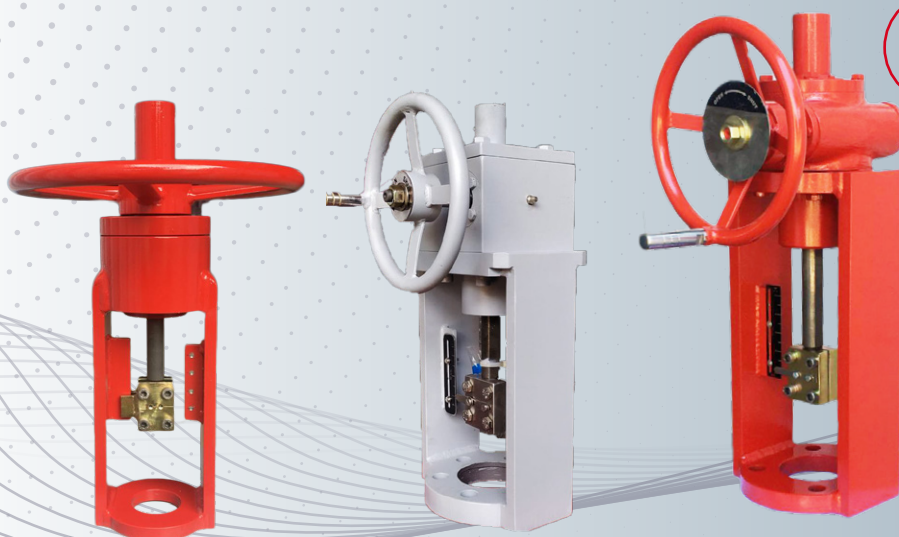
Manual Hand wheel Actuator is an ideal solution for all standard Globe and Angle styled Control Valves that require manual throttling to operate and set

Being manual control, throttling the valve is easy and plug position is visually indicated on the travel scale of the Actuator Yoke

Manual Actuator is offered in two variants depending upon the valve size and required force.: Top Mounted Hand Wheel and Side Mounted Hand wheel(Gear Operated Type).

KEY FEATURES

- Actuator is capable of giving precise manual throttling control.
- Anti-rotation mechanism prevents the valve stem from revolving.
- Handwheel rotation is assisted by bearings in the assembly.
- Handwheel Operation: Standard, Push Down To Close-Clockwise rotation will extend the stem, while counter-clockwise rotation will retract the stem.
- Locking mechanism securing the valve stem position against accidental adjustment.
- Actuator is able to be installed in any direction, horizontally or vertically.
- Special protection coatings for corrosion environment.



SERIES: MHA

SPECIFICATIONS

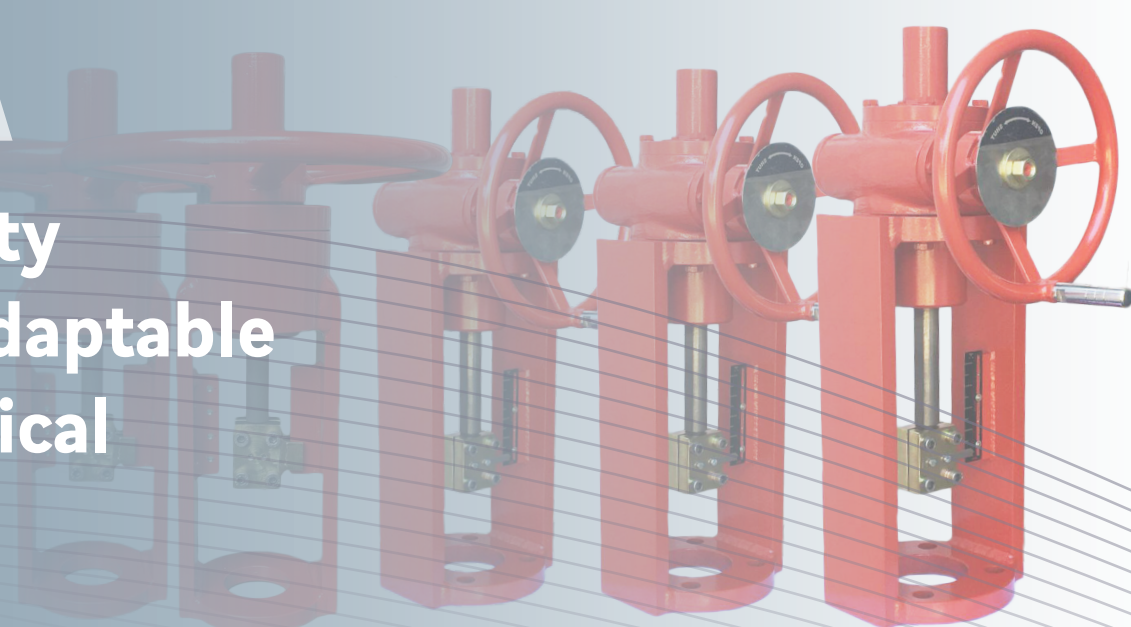
ACTUATOR MODEL	MHA (Manual Handwheel Actuators)				
SIZES(Inch's): TOP MOUNTED TYPE	TMH 01	TMH 02	TMH 03	TMH 04	
SIZES(Inch's): SIDE MOUNTED TYPE	SMH 01	SMH 02	SMH 03	SMH 04	
ORIENTATION Orientation	TOP and SIDE mounted handwheel				
CONTROL ACTION	On-off				
ACTUATION	Manual				
STROKE RANGE(mm)	15 to 180 mm				
AVAILABLE THRUST(N)	0 to 130 KN				
OPERATING TEMPERATURE	Standard: -10° to +60°c				
MATERIAL OF CONSTRUCTION	Carbon steel, Stainless steel ⁽¹⁾				
VALVE TYPE	Globe valve & Angle valve				
OPTIONS	Gear Operator				

Note:

1. For special yoke mounting and longer stroke manual handwheel actuator requirements, contact LUSTRE CONTROLS.

MHA

- > Reliability
- > Easily adaptable
- > Economical





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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

LUSTRE CONTROLS PRIVATE LIMITED

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