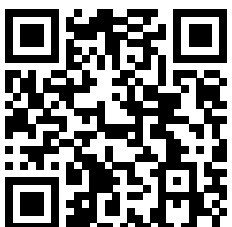




PATENT PENDING (Application No. 201921049425)

PNEUMATIC AND HYDRAULIC LINEAR ACTUATORS



LINEAR SPRING RETURN

Key Features:

- Water Ingress Protected - IP67M (1m)
- Guaranteed Thrust Outputs
- Five Years Warranty

Operating Ranges:

Thrust Outputs:

Double Acting: 320 - 985,294 N (72 - 221,502 lbf)
Spring-return End: 180 - 554,225 N (433 - 124,594 lbf)

Operating Pressure:

Pneumatic: 3 - 13 bar (40 - 200 PSIG)
Hydraulic: 27 - 345 bar (400 - 5000 PSIG)

Operating Temperature:

Standard Range: -37 ° C to 100 ° C (-35° F to 212° F)
High Range: -26 ° C to 204 ° C (-15° F to 400° F)
Low Range: -40 ° C to 148 ° C (-40° F to 300° F)



Benefits:

Water Ingress Protection:

A Series actuators meets IP67M (Ingress Protection) specifications. Only O-Ring Seals are used (No Gaskets).

Superior Coatings:

Xylan coating on cylinders and spring can, QPQ coatings on critical components and external paint options results in better performance in harsh environments.

Best In Industry Warranty:

A Series actuators are backed by 5 year material and workmanship warranty.

Travel Stop Adjustment:

Bi-Directional Travel Stops integral to the actuator, the stops allow 0% to 20% total travel adjustment. 10% of stroke adjustment possible at each end of stroke.

Standards & Certifications:

Self Certifications:

IP
Rating

In Process Third Party Certifications:

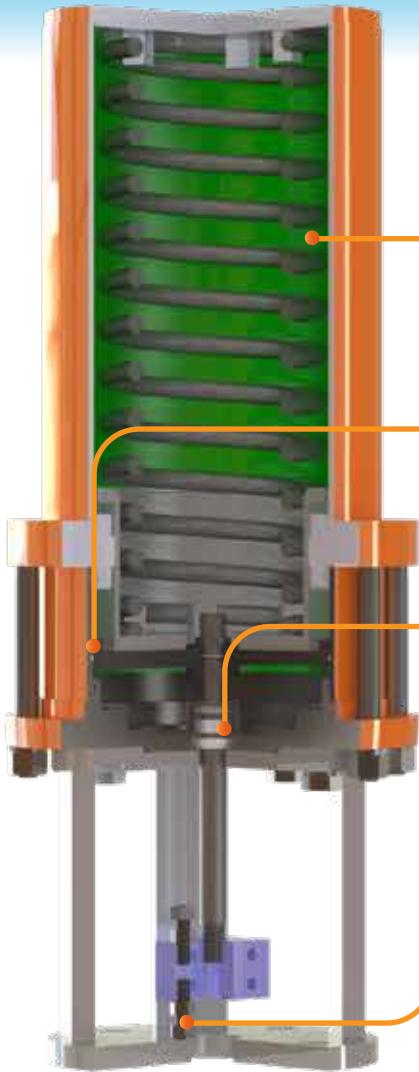
SIL 3
Suitability

IP
Rating

PED
Compliant



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Xylan Coating

Reduces friction, improves wear resistance resulting in increased lifespan of piston / spring guide and cylinder seals.

X-Ring Piston Seal

Improved stability and sealing in dynamic applications, greater lubrication retention, reduced friction and wear resulting in improved cycle life.

Reduced Maintenance

Use of piston rod bearings, piston rod bushings and output shaft bushings enhances life, reduces maintenance.

Travel Stroke Adjustment

Bi-Directional Travel Stops are integral to the actuator, the stops allow 80° to 100° total travel adjustment. Cylinder mounted extended travel stops are optional.

Optional Configurations:

Linear Pneumatic Double Acting:

- Fails in place.

Linear Pneumatic Spring Return:

- Springs pre-compressed and welded into sealed spring can at the factory for safe, maintenancefree service.
- Spring rates customized for maximum stiffness.

Linear Hydraulic Double Acting:

- Precision machined steel cylinder heads maintain linearity
- Double holding valve allows lock-in at any position

Linear Hydraulic Spring Return:

- Hydraulic actuator inside the unit, which reduces height.



Other Products:

**SCOTCH YOKE
ACTUATORS**



**GAS OVER OIL
ACTUATORS**



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