

# In-Line Linear Actuator

## Operating Instructions



12 Volt DC Input



### **Australian Gas Springs - LiftEasy Actuators**

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# **IMPORTANT**

## **PLEASE READ THESE SAFETY AND INSTALLATION INSTRUCTIONS IN FULL PRIOR TO COMMENCING INSTALLATION**

### **Before Installation**

Ensure there is no power connected.

Ensure the actuator is free from any load.

Ensure the end fittings are cross drilled and pinned. If you are installing directly on to plates or brackets without end fittings or pivots, pins must lock both ends of the actuator to their respective plates or brackets. This is critical to avoid unwanted rotation of the unit, which may result in electrical cable damage. This procedure of pinning the end fittings or pinning the plates/brackets must be done, otherwise the warranty is void. If you are undertaking this yourself, please call us if you require technical advice.

Ensure any cavity housing an actuator, cannot hold water and has adequate drainage.

Ensure all electrical connections are correctly fitted. If using multiple actuators, ensure the polarity is the same to all units for unified directional movement.

Ensure that the electrical supply circuit is protected by an appropriate sized fuse or circuit breaker. Ensure all cabling in the supply circuit is rated to handle the respective current being used. Use 7.5 amps for an individual unit, 15 amps for two units and 30 amps for four units.

When installing multiple actuators, ensure all cables running to them are of identical length. This will even out voltage drop and allow a more unified action.

### **Before Operation**

Ensure the correct voltage of 12VDC is supplied and the supply circuit supports enough current for the number of actuators being used.

Ensure the whole stroke is used, so the limit switches are reached in both directions. If external limit switches are used, ensure they are actuated in both directions at the correct point you require.

Ensure all attaching brackets are properly secured and allow full movement of the actuator.

### **During Operation**

Do not side load the actuator. The actuator is designed for linear pushing and pulling only. Lateral stability must be achieved by your application design.

To avoid internal damage to the actuator, do not exert more than the rated capacity of force to the actuator in either direction. This includes shock loading which may cause internal damage.

Listen for any unusual sounds or movements from either the actuator or the application.

If you have purchased a control unit for multiple actuators, these instructions must be read in conjunction with those provided with the control unit.

## **Specifications**

Voltage:	12 VDC
Amperage:	6A at full capacity
Force:	up to 3000N / 306Kg
Feed rate:	up to 5mm / second at full capacity
Ingress protection:	IP66 (Dust tight, powerful water jet proof)*
Tube material:	2.5 mm extruded aluminium
Shaft material:	Stainless steel
Lead Screw material:	Hardened steel
Mounting threads:	M10 x 1.5 mm
Limit switches:	Internally built in series with the motor
Motor:	DC permanent magnet motor with brushes
Duty cycle:	2 minutes on / 8 minutes off (25%)

## WARRANTY

Australian Gas Springs ('AGS') of 29 Tower Court, Noble Park 3174, Victoria, Australia warrants to the original purchaser that LiftEasy linear actuators will be free from defects in materials and workmanship under normal use and service for a period of twelve months from the date of original purchase.

This limited warranty is not applicable if the product has been damaged by accident, intention, improper installation, unreasonable or improper use, lack of proper maintenance, unauthorized repairs or modifications, normal wear and tear, or other causes not arising from defects in materials or workmanship and if production identification is not intact.

AGS' obligation under this warranty is limited to repair of the product at AGS' premises or replacement of the products at AGS' option without expense to the original purchaser. Any expenses involved in the removal, reinstallation or transportation of the product are not covered by this warranty. The product must be returned to AGS' premises at, 29 Tower Court, Noble Park 3174, Victoria, Australia, postage pre-paid, and insured with proof of original purchase including purchase date. If AGS is unable to replace the product and repair is not commercially practical, AGS may at its discretion refund the purchase price, less an amount for depreciation. Products that are replaced or for which a refund is issued become the property of AGS.

This warranty is AGS' only expressed warranty of these products, no implied warranty including, without limitation, the implied warranties of merchantability and fitness for a particular purpose, shall be extended beyond the warranty period stated above for each product. AGS shall not be liable for any damages, for loss of use of this product, nor for any other incidental or consequential damages, costs, or expenses.

A claim for product damage or loss occurring in transit is the responsibility of the carrier. In the event of such a loss, the purchaser

must advise the carrier within 14 days after delivery and secure the carrier's notation of damage or shortage in the freight bill. AGS suggests the purchaser file a claim with the carrier immediately thereafter. AGS will give all reasonable assistance in tracing shortages and filing claims.

AGS will not accept any unauthorized non-defective returns, unless due to the fault of AGS. All non-defective product returns will be subject to a minimum 30% handling charge, or will be returned to the customer at their expense.

Credit will not be issued for goods returned without prior authorization. Return requests must be made to the address shown above and must include an itemized list of products to be returned, the reasons for return, and the date and number of the original invoice. Production identification must be intact.

Product weights and dimensions are subject to variation within reasonable tolerances. All items are subject to design improvement and change.

\* INGRESS PROTECTION RATING 66

Dust Tight - No ingress of dust; complete protection against contact.

Powerful Water Jets - Water projected in powerful jets from a 12.5 mm nozzle at a volume of 100 litres per minute at a pressure of 100kPa at a distance of 3 metres for at least 3 minutes against the enclosure from any direction shall have no harmful effects.