REGNER®

*Improving lives through technology*


DATASHEET

# RA38 IN-LINE ACTUATOR SERIES

HIGH LIFTING FORCE | EQUAL PUSH/PULL FORCE | COMPACT SIZE | ELEGANT DESIGN | EASY INSTALLATION | MAINTENANCE FREE | OVERCURRENT PROTECTION | QUIET OPERATION | CUSTOMIZABLE

## SMART DESIGN, SMOOTH MOVEMENT

The RA38 linear actuator offers reliability and accuracy packed in a lightweight and easily integrable solution. It features a stylish design and can steadily tilt, lift, pull or push loads up to 2,000 N. Additionally, the actuator offers multiple configuration options to suit different needs.

### Main features

- **Powerful:** loads of up to 2,000 N
- **Fast:** up to 17.5 mm/s
- **Resistant:** IP54 rating, aluminum housing, stainless steel rod
- **Safe:** overcurrent protection
- **Customizable:** stroke, dimensions, anodized colors, connectors, cable lengths, brackets

### Main applications

- *Power wheelchairs*
- *Battery-operated medical equipment*
- *Ergonomic medical furniture*
- *Robotics*
- *Safety equipment*
- *Household automation equipment*
- *Automotive industry*
- *Industrial automation*

# Technical specifications

## General specifications

| | |
|---|---|
| **Stroke** | 37, 50, 73, 80 or 100 mm |
| **Max. load** | 2,000 N at 2.9 mm/s |
| **Max. speed (no load)** | 17.5 mm/s |
| **Power supply** | 24 VDC |
| **Max. current** | 2.4 A |
| **Starting current** | 3.5 A |
| **Overcurrent protection** | 3 A |
| **Connector** | Molex 39-01-2066 |
| **IP rating** | IP54 |
| **Weight** | 600 - 700 g |
| **Housing material** | Aluminum |
| **Rod material** | Polished stainless steel |
| **Color** | Anodized black (RAL 9005) |
| **Mounting hole diameter** | Standard: 8.1 or 10.1 mm<br>Clevis: 10.1 mm |
| **Cable length** | 150 or 500 mm |
| **Operating temperature** | -20 °C to +50 °C |
| **Storage temperature** | -30 °C to +70 °C |
| **Duty cycle** | 10 % (2 out of 20 minutes) |

## Customizable upon request

| |
|---|
| Stroke length (10 - 100 mm) |
| Dimensions |
| Anodized colors |
| Connectors |
| Cable length |
| Brackets |

*Please, contact **info@regner.es** for customized configurations.*

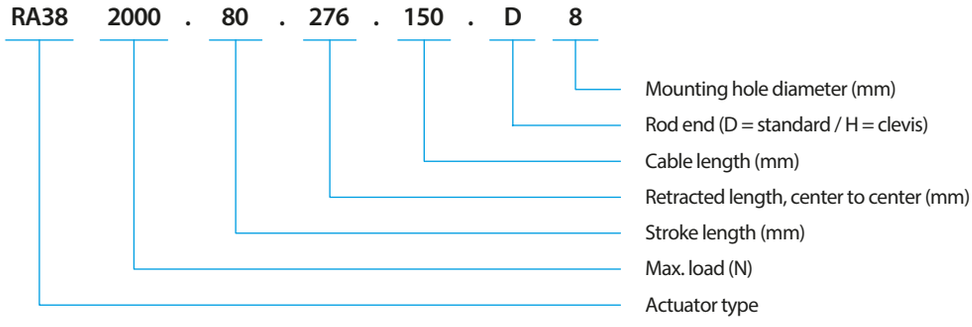
### Overcurrent Protection

In the event of an obstruction or an excessive load, the overcurrent protection feature will cut off the current at 3 A to protect the actuator.

# Preset configurations

| | RA38 500 N | RA38 1,000 N | RA38 2,000 N |
|---|---|---|---|
| **Max. peak load** | 500 N at 14 mm/s | 1,000 N at 7.4 mm/s | 2,000 N at 2.9 mm/s |
| **Max. speed (no load)** | 17.5 mm/s | 9.5 mm/s | 5.8 mm/s |
| **Max. current** | 1.9 A | 1.9 A | 2.4 A |
| **Lead** | 4.5 mm | 4.5 mm | 2 mm |
| **Retracted length (center to center):** | | | |
| ***193 mm + 37 mm stroke*** | | ✓ | ✓ |
| ***226 mm + 50 mm stroke*** | | | ✓ |
| ***193 mm + 73 mm stroke*** | | ✓ | ✓ |
| ***226 mm + 80 mm stroke*** | | | ✓ |
| ***156 mm + 100 mm stroke*** | ✓ | ✓ | |
| ***196 mm + 100 mm stroke*** | | | ✓ |

# Ordering example



## Force, speed and current

**RA38 500 N**

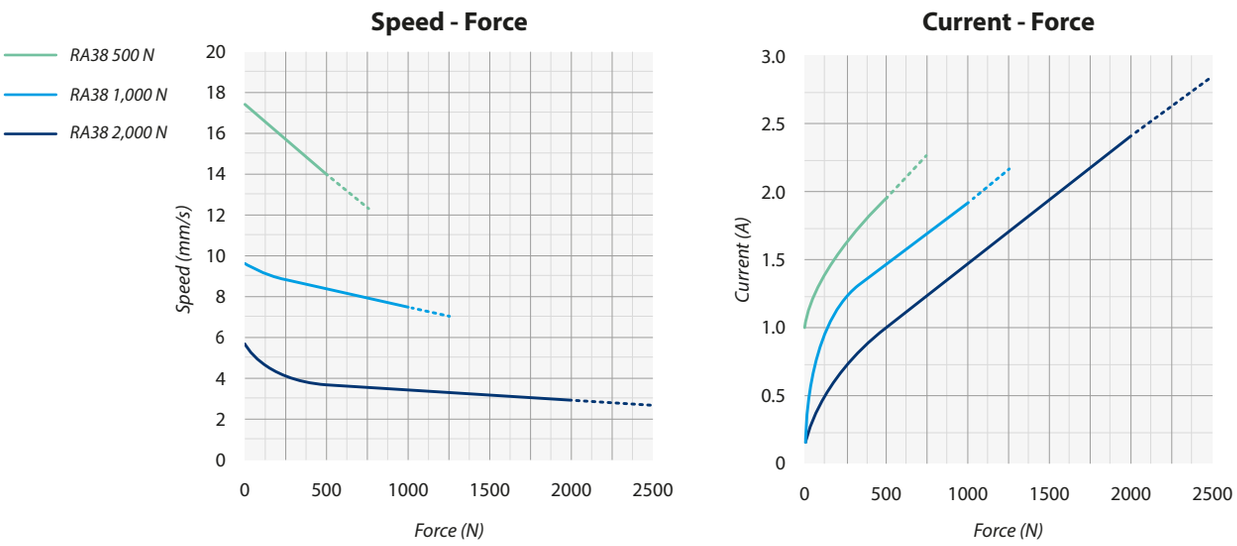
| Force (N) | No load | 250 N | 500 N | 750 N |
|---|---|---|---|---|
| Average current (A) | 1.0 | 1.7 | 1.9 | 2.3 |
| Speed (mm/s) | 17.5 | 15.7 | 14.0 | 12.4 |

**RA38 1,000 N**

| Force (N) | No load | 250 N | 500 N | 750 N | 1,000 N | 1,250 N |
|---|---|---|---|---|---|---|
| Average current (A) | 0.2 | 1.1 | 1.4 | 1.6 | 1.9 | 2.2 |
| Speed (mm/s) | 9.5 | 8.7 | 8.4 | 8.0 | 7.4 | 7.0 |

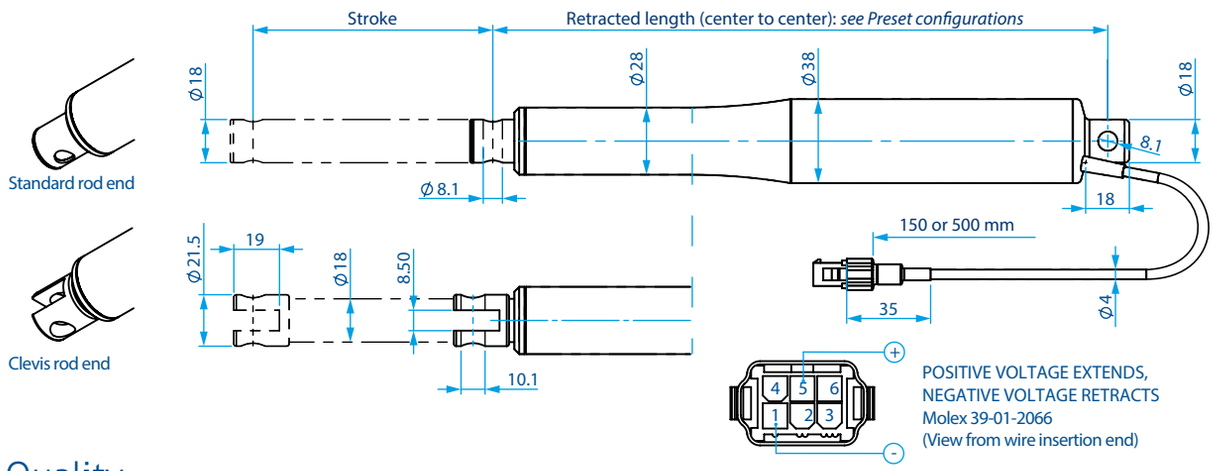
**RA38 2,000 N**

| Force (N) | No load | 500 N | 1,000 N | 1,500 N | 2,000 N | 2,500 N |
|---|---|---|---|---|---|---|
| Average current (A) | 0.2 | 1.0 | 1.5 | 1.9 | 2.4 | 2.6 |
| Speed (mm/s) | 5.8 | 3.8 | 3.6 | 3.3 | 2.9 | 2.6 |




Use in the dashed area is not recommended.
The above values are with a room temperature of 20 °C.

## Dimensions (mm)




## Quality

**Forging ahead to achieve high quality**

• We use high quality components and apply semiautomatic production and rigorous testing to verify and validate each motion control solution before they leave our premises. Plus, our management systems, which are continously audited, ensure optimized agile manufacturing. All these measures translate into high quality products.

**RA38 Quality control**

• Every single RA38 undergoes strict QC assessments during production in order to guarantee optimal performance and durability.

**Certifications**

- ISO 9001:2008 *Quality management*
- ISO 14001:2004 *Environmental management system*
- ISO 13485:2012 *Medical devices*

Safe
Durable
Quiet
Easy
Efficient
Powerful
Elegant
Customizable

REGNER®
*Improving lives through technology*

Ripollès, 4 | Pol. Industrial Casa Nova | 17181 Aiguaviva (Girona) SPAIN | Tel. +34 972 476 911 | Fax +34 972 475 803
info@regner.es | **www.regner.es**