



DATASHEET

RA47 IN-LINE ACTUATOR SERIES



HIGH LIFTING FORCE



TWO POSITION CONTROL OPTIONS



EQUAL PUSH/PULL FORCE



COMPACT SIZE



ELEGANT DESIGN



EASY INSTALLATION



MAINTENANCE FREE



LIMIT SWITCHES



HIGH INGRESS PROTECTION



CUSTOMIZABLE

ACCURACY & PERFORMANCE

The RA47 is a high power density actuator allowing for a maximum load of 2,500 N featuring either a low impedance potentiometer or a Hall sensor for precise position control. Additionally, it is specially conceived for applications in which the actuator is visible: unlike most competitors—generally made in plastic and with a 90° or 180° motor configuration—the RA47 presents an in-line configuration as well as a compact, stylish design built using anodized aluminum.

Main features

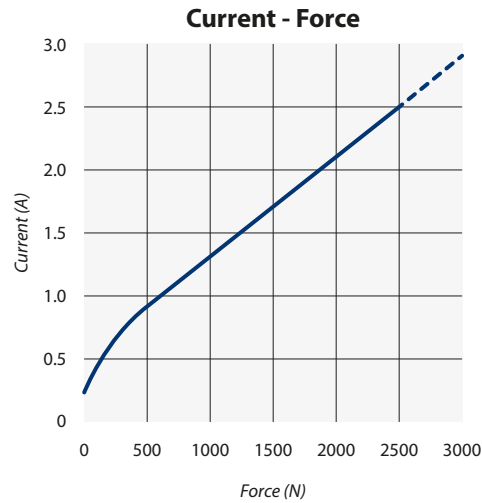
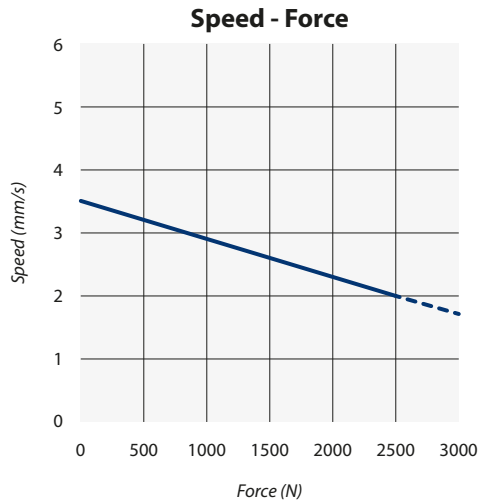
- **Powerful:** loads of up to 2,500 N (push/pull)
- **Compact:** retracted length (center to center) of 188 mm + stroke
- **Resistant:** IP65 rating, aluminum housing, stainless steel rod
- **Safe:** integrated limit switches
- **Position control:** low impedance potentiometer or Hall sensor available
- **Customizable:** stroke, dimensions, anodized colors, connectors, cable lengths, brackets, position control options

Main applications

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

Force, speed and current

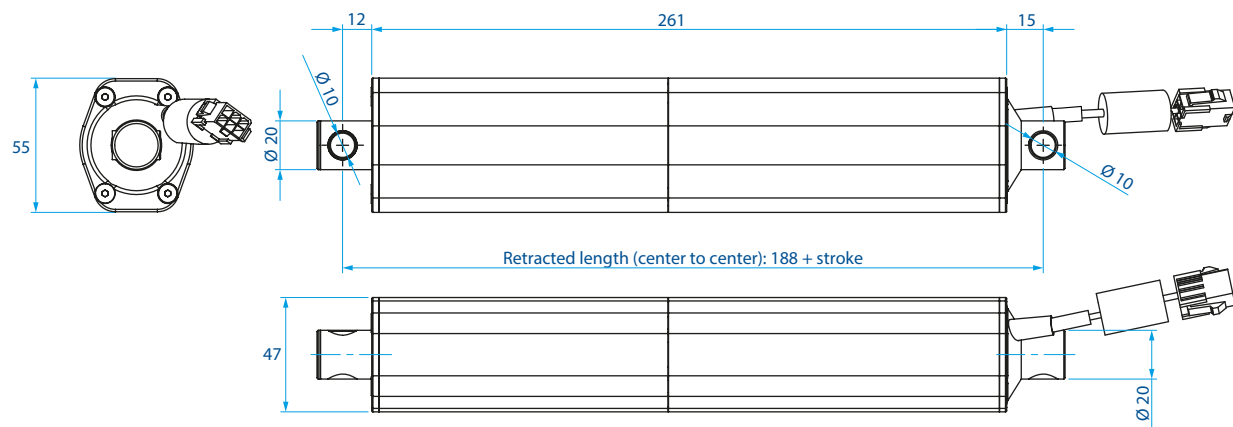
Force (N)	No load	500 N	1,000 N	1,500 N	2,000 N	2,500 N
Average current (A)	0.2	0.9	1.3	1.7	2.1	2.5
Speed (mm/s)	3.5	3.2	2.9	2.6	2.2	2.0



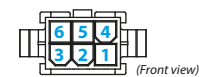
Use in the dashed area is not recommended.

The above values are with a room temperature of 20 °C.

Dimensions (mm)



Pin No.	Hall sensor	Potentiometer	Limit switches only
1	Motor -	Motor -	Motor -
2	Hall sensor Ch. A	-	-
3	Hall sensor -	Pot -	-
4	Hall sensor Ch. B	Signal	-
5	Motor +	Motor +	Motor +
6	Hall sensor +	Pot +	-



Molex 39-01-2066
POSITIVE VOLTAGE EXTENDS,
NEGATIVE VOLTAGE RETRACTS

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 continuously audited, ensure optimized agile manufacturing. All these measures translate into high quality products.

RA47 Quality control

- Every single RA47 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*

Quiet
Durable
Easy
Efficient
Powerful
Elegant
Customizable

