

RCEL005 / RCEL006-250 High quality electric actuators

ROTORK SWEDEN has been manufacturing actuators since 1961



RCEL005



RCEL006-250

RCEL – series meet all International Standards for easy and quick mounting of actuators on valves.

The RCEL Actuator has a smooth and easy operation which considerably increases the life expectancy of the valve.

The technical advantages of the electrical actuators produced by Remote Control are much appreciated by our customers.

"Power Start"

The RCEL-series has an unique rising of the rpm prior to start which results in a higher starting torque. This is necessary when valves have been sitting idle for a long time and initially need more force to be manoeuvred.

RCEL006-250 is also available with extended rotation angle and in explosion-safe design.

Accessories such as local control units or digital regulation cards and positioners can easily be installed.

Technical Data

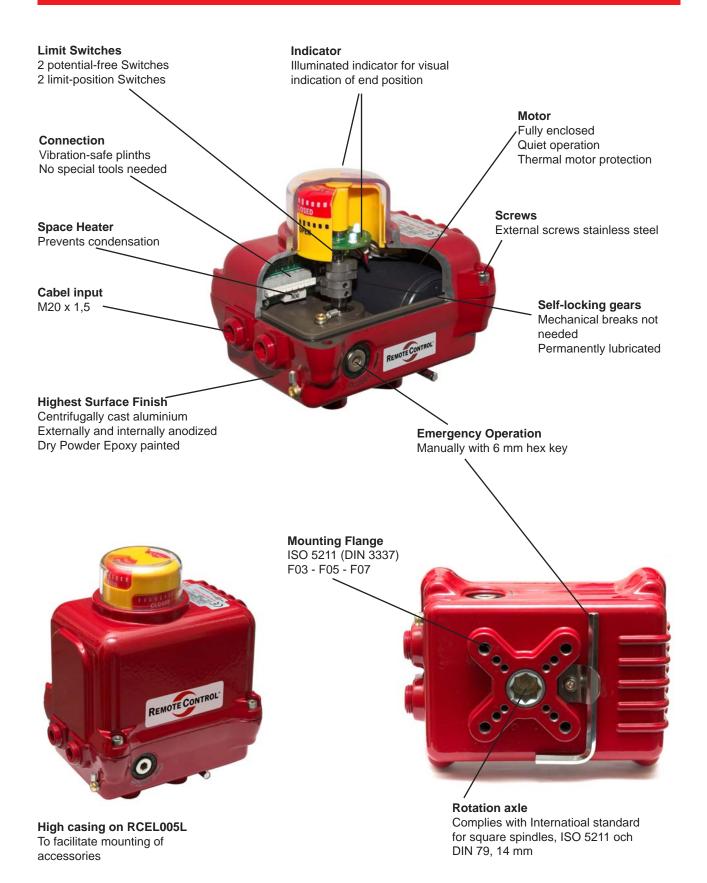
- For On-Off regulation.
- Torque range: 50 Nm 2,452 Nm.
 443 lbf.in 21,702 lbf.in.
- Mounting kits for all 90° valves. RCEL006-250 also for 120°, 135°, 180°, 270° och 300°.
- Connections and hole constellations in compliance with International standard ISO5211 (DIN 3337) and DIN 79.
- Permanently lubricated and self locking gear drive.
- Temp: RCEL005: -20° to + 70 °C RCEL006-250: -30 to + 70 °C
- Feed Voltage: RCEL005: 24 VDC (Option 24 VAC).
 110 / 230 VAC, 1-phase.
 RCEL006-250: 24 VDC (Option 24 VAC).
 110 / 230 VAC, 1-phase.
 380/400/440 VAC, 3-phase.
- Safety Class: RCEL005: IP 67 RCEL006-250: IP 67 (Option 68)
- CE labelled.
 Approval CSA UL.
 ATEX (Option).
- Manual Overdrive in case of power failure.
- Smooth running.
- Compact proportions.
- Built-in heater preventing condensation.
- Housing made from centrifugally cast anodized and epoxy painted aluminium.
- Long life, maximum dependability.

www.rotork.com www.remotecontrol.se

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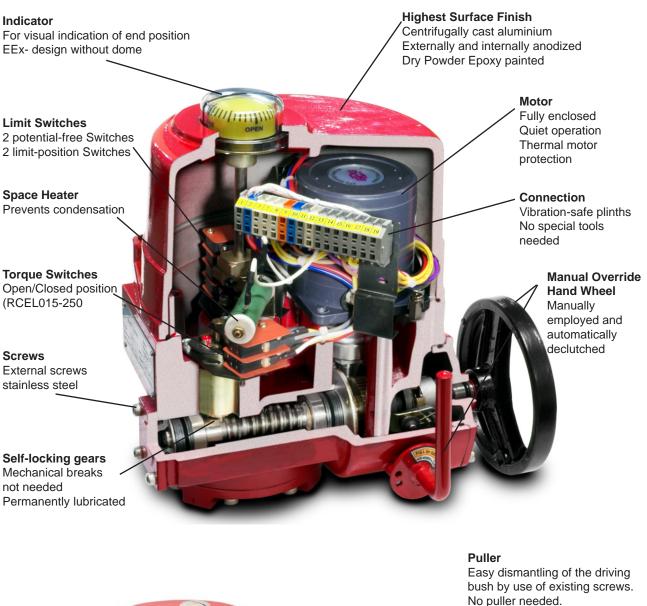


RCEL005 - Compact - Adaptable - 50 Nm





RCEL006-250 - The strong choice - Up to 2,450 Nm - Even EEx





Individualized Mounting Angle For each 45° 8 screws

Mounting Flange ISO 5211 (DIN 3337) F07, F10, F12, F14, F16

Driving Bush enclosed

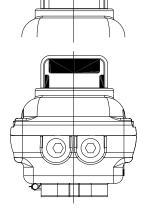
Delivered unfinished (without holes, for your own adaption) or adapted to International standard for square spindles, DIN 79, standard from 22 to 75.

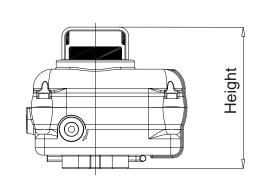
Can be adapted according to customer specification.



Dimensions RCEL005 - 005L							
Туре	Torque Nm	Flange ISO 5211	D Max Ø (mm)	Std hole / axle (mm)	Total height (mm)	Total width (mm)	Totalt depth (mm)
005	50	F03-05-07		{ }14	148	168	132
005L	50	F03-05-07		€€14	208	168	132

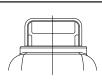
RCEL005

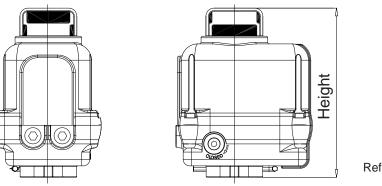




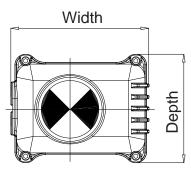
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RCEL005L





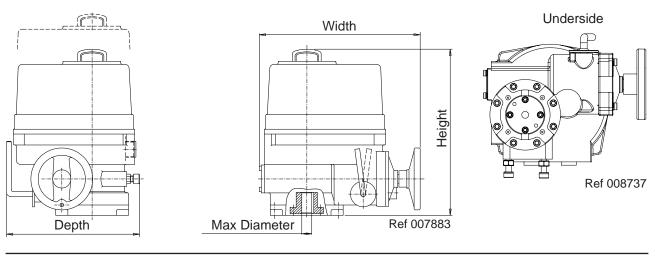
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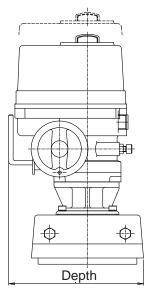


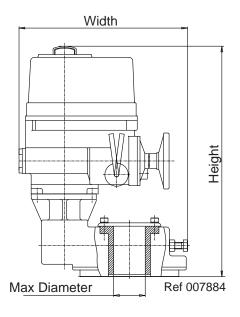
Dimensions RCEL006 - 250							
Туре	Torque Nm	Flange ISO 5211	D Max Ø (mm)	Std hole / axle (mm)	Total height (mm)	Total widht (mm)	Totalt depth (mm)
RCEL 006	58	F07	22	17	273	231	181
RCEL 009	88	F07	22	17	273	231	181
RCEL 015	147	F07 - F10	22	17	273	261	224
RCEL 019	186	F07 - F10	22	17	273	261	224
RCEL 028	274	F10 - F12	32	22	320	285	258
RCEL 038	373	F10 - F12	32	22	320	285	258
RCEL 050	490	F10 - F12	32	22	320	285	258
RCEL 060	588	F12 - F14	42	27	361	325	307
RCEL 080	785	F12 - F14	42	27	361	325	307
RCEL 100	981	F12 - F14	42	27	361	325	307
RCEL 150	1471	F14 - F16	75	36	556	388	318
RCEL 200	1962	F14 - F16	75	36	556	388	318
RCEL 250	2452	F14 - F16	75	36	556	388	318

RCEL006-100

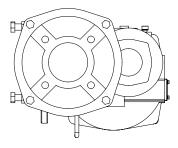


RCEL150-250





Underside





Accessories

Adaptation

A driving bush is delivered as a standard with all actuators, for customers own adaptation or adapted as below.

RCEL 005-005L:	14 mm, ISO 5211 and DIN 79
RCEL 006-019:	22 mm, DIN 79
RCEL 028-050:	32 mm, DIN 79
RCEL 060-100:	42 mm, DIN 79
RCEL 150-250:	75 mm, DIN 79

Rotork Sweden has blueprints of more than 6,000 different valves for manufacturing valve adaption kits. Rotork Sweden also offers adapted driving bushes according to customer requirements.

Mounting kit, console and driving bush When direct mounting is not possible.

Standard design according to ISO 5211 and DIN 3337. Measurements F07, F10, F12, F14, F16.

Individually adapted to valves according to customer specifications.

Mounting actuator on valve

Rotork Sweden offers mounting of the actuator onto the valve. The complete unit is calibrated and test run prior to delivery.

PIU. Potentiometer kit

For modulating actuators. Continually monitors the actuator position throughout the full rotation motion. PIU is built into the actuator at factory. Can also be mounted later.

Available to RCEL005L, RCEL006-250 and EEx-actuators. Mounting details are enclosed.

Operating panel Customized control panel.















Accessories

CPT. Continuous Position Transmitter For externally controlled actuators.

4 - 20 mA, 0 - 1 kΩ, R/I converter. Safety Class IP 67. RCEL005L: To be ordered as a complete unit. RCEL006-009: CPT built into the PCU housing. RCEL015-250: CPT built into the actuator. Not for EEx-actuators.

PCU PB90. Position Control Unit for RCEL 006-250.

4 - 20 mA or 0 - 10 V input signal; split range. Return signal 4 - 20 mA. Max load 300Ω. Safety Class IP 67.

For 3-phase 380/400/440V:

RCEL006-019: PCU PB90 built into the PCU housing. RCEL028-250: PCU PB90 built into the actuator. For 24VDC:

RCEL006-019: PCU PB90 built into the PCU housing. RCEL028: PCU PB90 built into the actuator.

Not for EEx-actuators.

LCU. Local Control Unit for RCEL005L

Integrated in the actuator cover. Lockable 3-position selector knob for Remote - Stop - Local. 3-position control knob for Open - Stop - Close. Safety Class IP67. For On-Off applications. Not for retro fitting on installed actuators. Not for Ex-protected actuators.

LCU4 & 5. Local Control Unit for RCEL006-250

Compact epoxy painted aluminium housing. Lockable 3-position selector knob for Remote - Stop - Local. 3-position control knob for Open - Stop - Close. LED indicators for Remote - Local - Open - Over Torque - Closed. Built in anti-condensation space heater. Safety Class IP67. LCU 4 for On-Off applications. LCU 5 for control applications. For actuator mounting or wall mounting.

Not for Ex-protected actuators.

LCU6 Ex-proof Local Control Unit for RCEL015 -250

Epoxy painted aluminium housing. Lockable 3-position selector knob for Remote - Stop - Local. Push buttons for Open - Stop - Close. LED indicators for Remote - Local - Open - Over Torque - Closed. LCD display. Built in self diagnostic. Built in anti-condensation space heater. Safety Class IP67. ExdIIBT4 -20°C - +55°C. Available for On-Off, On-Off with position feed-back signal or Control applications. Not for retro fitting on installed actuators.











Accessories

PCU DHC-100D. Digital modulating card.

Resolution: 450 points per 90° movement.

Is mounted in the actuator at delivery if requested, can also easily be mounted later.

Input signal: 4 - 20 mA, 0 - 5V and 0 - 10V.

Easily calibrated with buttons on the front panel. Simple configuration of all parameters. Optional rotation direction. Adaptable control function continually modulating the load of the electric actuator. Safety function for overloading (detection). Faulty signal indicated by flashing LED. Eliminates overload through operation-time protection. Programmable function wrong input signal open, stop or close. Can be combined with transmitter type OTX-100 or OTR-100 for return signal 4 - 20 mA.

For 1-phase 230 V, not for EEx-actuators or actuator RCEL005 with low cover.

OTX-100. Transmitter for return signal.

Return signal: 4 - 20 mA. Simple installation. Plugged directly into PCU DHC-100D. Eliminates extra wiring. Easily calibrated with buttons on the PCU DHC-100D. Voltage or current output can be adjusted to optional range within 0 - 10 V DC with steps of 0,0016 V or within 0 - 20 mA with steps of 0,0031 mA. OTX-100 can be mounted at a later point in time.

For 1-phase 230 V, not for EEx-actuators.

OTR-100. Transmitter for return signal and faulty information.

Return signal: 4 - 20 mA. Simple installation. Plugged directly into PCU DHC-100D. Eliminates extra wiring. Easily calibrated with buttons on the PCU DHC-100D. Voltage or current output can be adjusted to optinal range within 0 - 10 V DC with steps of 0,0016 V or within 0 - 20 mA with steps of 0,0031 mA.

Relay outputs, 2 pcs programmable + 1 pc for faulty function alarm. OTR-100 can be mounted at a later point in time.

For 1-phase 230 V, not for EEx-actuators.

AMM-100. Manual Override Module.

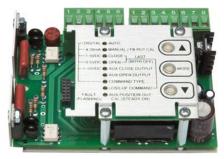
Makes it possible to combine Local Control Unit type LCU5 with Position Control Unit PCU DHC-100D.

Simple installation. 2-thread communication.

Can be combined with push buttons or handle. AMM-100 can be mounted at a later point in time.

For 1-phase 230 V, not for EEx-actuators.







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Advantages with RCEL actuators from Rotork Sweden

Strength:	"Power Start" delivers higher torque during the start. Consultation worldwide. Technical support from specialists, and direct customer support. Service / spare parts from factory. Training in the factory or at the customer's location.
Safety:	CE labelled. Approval CSA –UL. ATEX (option). RCEL006-250. Self locking gear. Manual override wheel in case of power loss. (RCEL006-250) Allen key for manual operation. (RCEL005-005L) 4 Limit Switches as standard, of which 2 pcs are potential free. Thermal motor protection. (Not for 24VDC). Mechanical end of travel stops. Vibration-safe plinths
Delivery:	Fast deliveries from warehouse in Falun, Sweden. Delivery inspection of all Actuators. Unattached Actuators have basic settings at delivery. Actuators mounted on valves are calibrated before delivery.
Warranty:	1 year warranty.
Mounting:	Compact dimensions on the Actuators. Remote Control has blueprints for the manufacturing of more than 6000 different valve adaption kits. Customer adapted special applications. Mounting Kits: International standard ISO 5211, DIN 79 and DIN 3337.
Material Quality:	Centrifugally cast aluminium. Exterior and interior anodized. Dry powder painted. Fully enclosed, low noise motor. Built-in heater preventing condensation. Stainless steel.



QUALITY - RELIABILITY - STRENGHT

Quality

Rotork Sweden AB is certified according to ISO 9001 and ISO 14001.

All Rotork Sweden electric actuators are manufactured under rigorous quality control.

The RCEL-actuators comply with all International standard demands.

All products are CE-labeled and manufactured according to EMC and the ATEX-directive. The recognized high quality of RCEL's Actuators safeguards Actuators of Highest Class to our customers.

Reliability

The design is simple and robust. We only use material of the highest quality in manufacturing, which results in Actuators with high life expectancy.

Strength

RCEL Actuators are strong and unique. The secret lies in the "Power Start" which gives an increased torque during the start-up mode, exactly when the valve needs the most force.











Packing & Delivery

Rotork Sweden AB's quality system ISO 9001 also encompass packing and delivery.















RCEL 005 Electric Actuator 50 Nm mounted on Valve



RCEL 006-250 Electric Actuator 58 Nm to 2,450 Nm mounted on Valve



RCE-SR Electric Actuator with spring return mounted on Valve

www.rotork.com www.remotecontrol.se

We reserve the right to make changes without notice

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