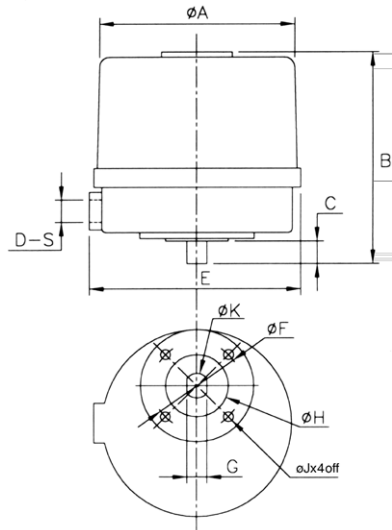


The ROM and RBM actuators provide quiet and reliable operation for all kinds of small ball valves and butterfly valves, as well as dampers and ventilation louvres. They provide self-locking as standard, local visual indicators and manual override options together with a wide range of voltages.

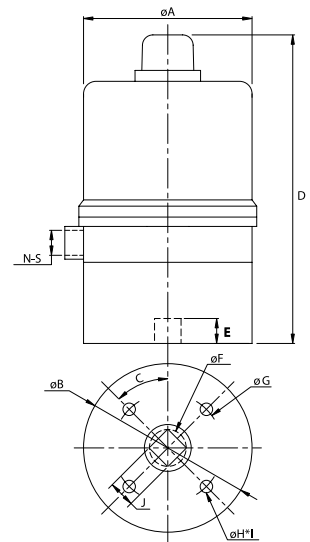
## The RBM-2



Dimension table: Unit: mm

| A   | B   | C  | D | E   | F  | G  | H  | J  | K  | S             | Flange type |
|-----|-----|----|---|-----|----|----|----|----|----|---------------|-------------|
| 154 | 168 | 18 | 1 | 160 | 70 | 16 | 50 | m8 | 20 | 1/2"NPT / m20 | F07         |

## The ROM-A



\*Drive Insert Option:  
J=14, F=19

Dimension table: Unit: mm

| A   | B   | C   | D   | E  | F  | G  | H  | I | J  | K | L             | M   | N | S | Flange type |
|-----|-----|-----|-----|----|----|----|----|---|----|---|---------------|-----|---|---|-------------|
| 106 | 106 | 45° | 198 | 16 | 24 | 70 | m8 | 4 | 17 | 1 | 1/2"NPT / m20 | F07 |   |   |             |

## Mechanical Data:

| Model | 90° Travel time<br>seconds |      | 12/24V | Weight | Manual<br>override | Output<br>Drive | Torque     | Mounting base designation to |    |          |
|-------|----------------------------|------|--------|--------|--------------------|-----------------|------------|------------------------------|----|----------|
|       | 50Hz                       | 60Hz | ac/dc  | kg     |                    | mm              | Nm / lbsft | ISO5211                      | or | imperial |
| RBM-2 | 10                         | 8    | N/A    | 4.5    | N/A                | —               | 120 / 89   | F07                          | or | FA07     |
| ROM-A | 24                         | 20   | 24     | 3.0    | N/A                | 17 / 14         | 50 / 37    | F07                          | or | FA07     |

## Electrical Performance Data:

### 12V/24V

| Model No. | Torque (Nm) | Speed (sec / 90°) | Motor Power (W) | Motor Speed (rpm) |      | 12Vdc / ac (A) |       |      | 24Vdc / ac (A) |       |      |
|-----------|-------------|-------------------|-----------------|-------------------|------|----------------|-------|------|----------------|-------|------|
|           |             |                   |                 | 12V               | 24V  | Run            | Start | Lock | Run            | Start | Lock |
| ROM-A     | 50          | 24                | 10              | 6000              | 6000 | 0.5            | 3.0   | 3.0  | 0.7            | 0.8   | 1.4  |

### Single Phase

| Model No. | Torque (Nm) | Speed (sec) |      | Motor Power (W) | Motor Speed (rpm) |      | 110V Current (A) |       |      | 220V Current (A) |       |      |
|-----------|-------------|-------------|------|-----------------|-------------------|------|------------------|-------|------|------------------|-------|------|
|           |             | 50Hz        | 60Hz |                 | 50Hz              | 60Hz | Run              | Start | Lock | Run              | Start | Lock |
| RBM-2     | 120         | 10          | 8    | 40              | 1450              | 1720 | 1.3              | 3.0   | 1.8  | 0.5              | 1.5   | 0.9  |
| ROM-A     | 50          | 24          | 20   | 10              | 3000              | 3600 | 0.5              | 1.5   | 0.6  | 0.3              | 1.0   | 0.5  |

### Three Phase

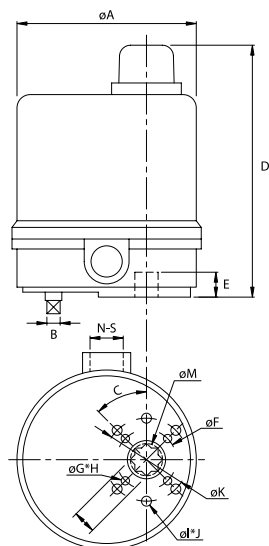
Not applicable to RBM-2 or ROM-A

## The ROM-1

\*Drive Insert Option:

(1) L=11, M=15

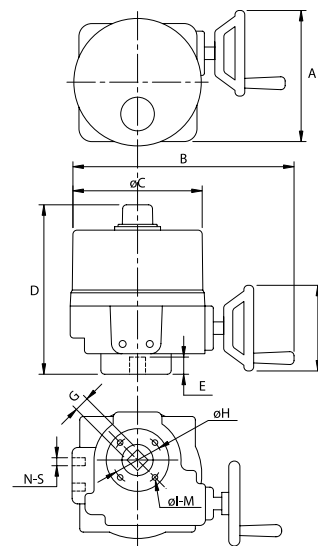
(2) L=9, M=12



Dimension table: Unit: mm

| A   | B | C   | D   | E  | F  | G  | H | I  | J | K  | L <sub>Max</sub> | M  | N | S            | Flange type |
|-----|---|-----|-----|----|----|----|---|----|---|----|------------------|----|---|--------------|-------------|
| 106 | 8 | 45° | 151 | 15 | 36 | m5 | 4 | m6 | 6 | 50 | 14               | 19 | 1 | 1/2NPT / m20 | F03 / F05   |

## The ROM-2 to 3



Dimension table: Unit: mm

| A   | B   | C   | D   | E  | F   | G <sub>Max</sub> | H  | I  | M | N | S            | Flange type |
|-----|-----|-----|-----|----|-----|------------------|----|----|---|---|--------------|-------------|
| 175 | 310 | 180 | 250 | 30 | 125 | 22               | 70 | m8 | 4 | 2 | 1/2NPT / m20 | F07         |

## Mechanical Data:

| Model | 90° Travel time<br>seconds |      | 12/24V<br>ac/dc | Weight<br>kg | Manual<br>override | Output<br>Drive<br>mm | Torque<br>Nm / lbsft | Mounting base designation to |          |  |
|-------|----------------------------|------|-----------------|--------------|--------------------|-----------------------|----------------------|------------------------------|----------|--|
|       | 50Hz                       | 60Hz |                 |              |                    |                       |                      | ISO5211                      | imperial |  |
| ROM-1 | 13                         | 12   | 15              | 2.0          | Lever              | 14 / 11 / 9           | 35 / 26              | F05 / F03                    | —        |  |
| ROM-2 | 17                         | 15   | 15              | 9.0          | Handwheel          | 22                    | 90 / 67              | F07 or                       | FA07     |  |
| ROM-3 | 26                         | 22   | 22              | 9.0          | Handwheel          | 22                    | 150 / 110            | F07 or                       | FA07     |  |

## Electrical Performance Data:

### 12V/24V

| Model<br>No. | Torque<br>(Nm) | Speed<br>(sec / 90°) |      | Motor<br>Power (W) | Motor Speed (rpm) |      | 12Vdc / ac (A) |       |      | 24Vdc / ac (A) |       |      |
|--------------|----------------|----------------------|------|--------------------|-------------------|------|----------------|-------|------|----------------|-------|------|
|              |                | 50Hz                 | 60Hz |                    | 12V               | 24V  | Run            | Start | Lock | Run            | Start | Lock |
| ROM-1        | 35             | 13                   | 12   | 10                 | 6000              | 6000 | 0.5            | 3.0   | 3.0  | 0.7            | 0.8   | 1.4  |
| ROM-2        | 90             | 17                   | 15   | 70                 | 1800              | 1800 | 3.4            | 5.0   | 8.5  | 3.0            | 5.0   | 13.0 |
| ROM-3        | 150            | 26                   | 22   | 70                 | 1800              | 1800 | 3.4            | 5.0   | 8.5  | 3.0            | 5.0   | 13.0 |

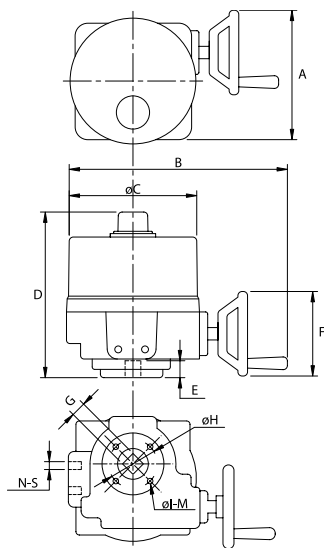
### Single Phase

| Model<br>No. | Torque<br>(Nm) | Speed (sec) |      | Motor<br>Power (W) | Motor Speed (rpm) |      | 110V Current (A) |       |      | 220V Current (A) |       |      |
|--------------|----------------|-------------|------|--------------------|-------------------|------|------------------|-------|------|------------------|-------|------|
|              |                | 50Hz        | 60Hz |                    | 50Hz              | 60Hz | Run              | Start | Lock | Run              | Start | Lock |
| ROM-1        | 35             | 13          | 12   | 10                 | 3000              | 3600 | 0.5              | 1.5   | 0.6  | 0.3              | 1.0   | 0.5  |
| ROM-2        | 90             | 17          | 15   | 40                 | 1450              | 1720 | 1.0              | 3.0   | 1.8  | 0.5              | 1.5   | 0.9  |
| ROM-3        | 150            | 26          | 22   | 40                 | 1450              | 1720 | 1.0              | 3.0   | 1.8  | 0.5              | 1.5   | 0.9  |

### Three Phase

| Model<br>No. | Torque<br>(Nm) | Speed (sec) |      | Motor<br>Power (W) | Motor Speed (rpm) |      | 220V-240V Current (A) |       |      | 380V Current (A) |       |      | 440V Current (A) |       |      |
|--------------|----------------|-------------|------|--------------------|-------------------|------|-----------------------|-------|------|------------------|-------|------|------------------|-------|------|
|              |                | 50Hz        | 60Hz |                    | 50Hz              | 60Hz | Run                   | Start | Lock | Run              | Start | Lock | Run              | Start | Lock |
| ROM-2        | 90             | 17          | 15   | 40                 | 1450              | 1720 | 0.6                   | 1.8   | 1.1  | 0.3              | 1.0   | 0.7  | 0.4              | 1.3   | 0.7  |
| ROM-3        | 150            | 26          | 22   | 40                 | 1450              | 1720 | 0.6                   | 1.8   | 1.1  | 0.3              | 1.0   | 0.7  | 0.4              | 1.3   | 0.7  |

## The ROM-4



Dimension table: Unit: mm

| A   | B   | C   | D   | E  | F   | G <sub>Max</sub> | H   | I   | M | N | S            | Flange type |
|-----|-----|-----|-----|----|-----|------------------|-----|-----|---|---|--------------|-------------|
| 265 | 375 | 215 | 320 | 50 | 195 | 35               | 102 | m10 | 4 | 2 | 1/2NPT / m20 | F10         |

## Mechanical Data:

| Model | 90° Travel time<br>seconds | 12/24V | Weight | Manual<br>override | Output<br>Drive | Torque     | Mounting base designation to |          |         |
|-------|----------------------------|--------|--------|--------------------|-----------------|------------|------------------------------|----------|---------|
|       | 50Hz                       | 60Hz   | ac/dc  | kg                 | mm              | Nm / lbsft | ISO5211                      | imperial |         |
| ROM-4 | 18                         | 16     | 16     | 17.5               | Handwheel       | 35         | 400 / 295                    | F10      | or FA10 |

## Electrical Performance Data:

### 12V/24V

| Model | Torque | Speed       | Motor     | Motor Speed (rpm) |      | 12Vdc / ac (A) |       |      | 24Vdc / ac (A) |       |      |
|-------|--------|-------------|-----------|-------------------|------|----------------|-------|------|----------------|-------|------|
| No.   | (Nm)   | (sec / 90°) | Power (W) | 12V               | 24V  | Run            | Start | Lock | Run            | Start | Lock |
| ROM-4 | 400    | 16          | 180       | 1800              | 1800 | 12.0           | 8.5   | 30.0 | 6.0            | 8.0   | 30.0 |

### Single Phase

| Model | Torque | Speed (sec) |      | Motor     | Motor Speed (rpm) |      | 110V Current (A) |       |      | 220V Current (A) |       |      |
|-------|--------|-------------|------|-----------|-------------------|------|------------------|-------|------|------------------|-------|------|
| No.   | (Nm)   | 50Hz        | 60Hz | Power (W) | 50Hz              | 60Hz | Run              | Start | Lock | Run              | Start | Lock |
| ROM-4 | 400    | 18          | 16   | 120       | 1420              | 1720 | 1.3              | 3.1   | 3.6  | 0.6              | 1.5   | 1.8  |

### Three Phase

| Model | Torque | Speed (sec) |      | Motor     | Motor Speed (rpm) |      | 220V-240V Current (A) |       |      | 380V Current (A) |       |      | 440V Current (A) |       |      |
|-------|--------|-------------|------|-----------|-------------------|------|-----------------------|-------|------|------------------|-------|------|------------------|-------|------|
| No.   | (Nm)   | 50Hz        | 60Hz | Power (W) | 50Hz              | 60Hz | Run                   | Start | Lock | Run              | Start | Lock | Run              | Start | Lock |
| ROM-4 | 400    | 18          | 16   | 120       | 1450              | 1720 | 1.0                   | 3.0   | 3.5  | 0.7              | 2.2   | 2.0  | 0.8              | 2.5   | 2.0  |

## Features:

### Enclosure

- IP 67 (NEMA 4, NEMA 4X) waterproof and dust-proof enclosures.
- Material: Aluminium alloy.
- Finish: Dry powder coated.

### Motor

- Standard extended duty cycle induction motor. H insulation class for ROM-1 and ROM-A; F class for RBM-2 and ROM-2 to ROM-4.
- Built-in thermal motor protection (135°C).

### Position Indicator

- All models have continuous position indication on the actuator top cover.

### Manual Override

- Non-clutch design, the manual operation can be operated without any lever, clutch or brake upon power outage.
- When the electric motor is operating, the manual override will not rotate.

### Gear Train

- High alloy steel gear trains provide self-locking function to avoid valve back drive.
- Gear trains are factory lubricated with a high temperature rated lubricant.

### Mechanical Stops

- Externally adjustable mechanical stops are provided on ROM-2, 3 & 4 actuators.

### Working Conditions

- Ambient temperature: -5°C to +60°C.
- Humidity: 30% to 95%.

### Various Options

- Anti-condensation heater.
- Additional limit switches.
- Potentiometer unit (1K Ohm).
- Local control unit (local/remote, on/off).
- Conduit entries 1/2" NPT or M20.
- Adjustable torque switches.
- Current position transmitter (output 4-20mA).

### Certificates

- ISO 9001, CE, CSA.

### Couplings

- Standard coupling is for a square shaft. Other couplings like 2-flat are available on request.

## Optional Extras:

### Torque Switches

Cam activated torque switches to provide torque over-load protection (available on ROM-2, 3 & 4).

### Potentiometer Unit

Synchronous with output transmission shaft to provide a feedback signal for Position Indicator etc.

### Current Position Transmitter

Works in conjunction with the Potentiometer Unit and provides 4-20mA output signal for position indication etc.

### Local Control Unit

Local / Remote selection switches, Open / Close selection switches (available on ROM-2, 3 & 4 only).

### Anti-condensation Heater

This heater is available for all sizes.

### Position Indicator

Position Indicator can be either 0-100% or 4-20mA.

### Limit Switches

Two extra limit switches are available.

# rotork®

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