ROTORK · QUARTER-TURN ELECTRIC

ROM & ROMpak

Quarter-turn direct drive electric actuators

Compact, lightweight and cost effective – a simple, reliable Rotork solution for small ball and butterfly valves, dampers and ventilation louvres.

- Watertight and dustproof to IP68 – 10 m for 100 hours
- Continuous position indication, even without power
- 1-phase, 3-phase and DC power supplies
- Self-locking high alloy steel gear trains*
- Non-clutch manual override for power outage



8–800 Nm	IP68	-30...+70 °C	F03–F12
RATED TORQUE	10 M / 100 HOURS	AMBIENT TEMPERATURE	ISO 5211 FLANGES

Three versions.

ROM · ROMPAK · ROMH / ROMPAKH

ROM
Basic actuator for small part-turn valves

Torque	**35 – 800 Nm**
Sizes	**ROM-1, A, 2 – 7**
Weight	**2 – 26 kg**
Material	**Aluminium alloy**

ROMpak
ROM + self-contained control package

Controls	**Local/remote, on/off**
Relays	**Status indication**
Phase	**Rotation correction**
Options	**Folomatic, Pakscan™, bus**

ROMH · ROMpakH
High-speed versions

Torque	**8 – 13 Nm**
Op. time	**4.5 / 5.5 s**
Supplies	**DC and 1-phase**
Flange	**F03/F05**

WORKING CONDITIONS
Ambient -30 to +70 °C (12/24 VDC units -30 to +65 °C) · humidity 30 – 95% · corrosion protection C5-M low durability as standard · noise ≤ 65 dB(A) at 1 m · voltage and frequency tolerance ±10%.

MOTOR & GEARING
S3 duty induction motor, class F insulation. ROM-1 and ROM-A use an efficient spur gear train which can back drive in certain applications – not suitable for butterfly valves which may back drive.

OPTIONS & CERTIFICATES

ISO 9001 · CE · CSA · BV | Anti-condensation heater | Additional limit switches | Torque switches* | M20 × 1.5p conduit entries | Pakscan™ · Profibus® · Modbus® · Foundation Fieldbus® | Current position transmitter

SUPPLIED & SUPPORTED IN THE UK BY
Actuation Valve & Control Ltd
actuation.co.uk

Mechanical data.

Model	ROM kg	ROMpak kg	Manual override	Output drive mm	ISO 5211
ROM-1*	2	4	Hexagonal drive	14 / 11 / 9	**F03/F05**
ROM-A*	3	5	Hexagonal drive	17 / 14	**F05/F07**
ROM-2	11	13	Handwheel	22 / 17	**F07**
ROM-3	11	13	Handwheel	22 / 17	**F07**
ROM-4	22	24	Handwheel	36 / 35	**F10**
ROM-5	22	24	Handwheel	36 / 35	**F10**
ROM-6	22	24	Handwheel	36 / 35	**F10**
ROM-7	26	28	Handwheel	36 / 35	**F12**

Weights based on 1-phase 50 Hz supply. * Not suitable for butterfly valves which may back drive.

Design life.

Model	Rated Nm	MTBF years	Class A cycles/h	Cycles 50% rated	Cycles 30% rated
ROM-1	35	90	15	25,000	N/A
ROM-A	50	14	15	25,000	N/A
ROM-2	90	73	15	25,000	50,000
ROM-3	150	59	10	25,000	50,000
ROM-4	400	19	10	25,000	50,000
ROM-5	500	N/A	10	25,000	50,000
ROM-6	650	N/A	10	25,000	N/A
ROM-7	800	N/A	10	25,000	N/A
ROMH-1 / 2 / 3	8 / 10 / 13	N/A	15	25,000	N/A

One cycle = one full open stroke followed by one full close stroke; initial and final 5% at rated torque, remainder at running torque.

12 V / 24 V performance.

12/24 VAC NOT AVAILABLE FOR ROMPAK

Model	Torque Nm (lbf.ft)	Operating time s	Motor power W	12 V run A	12 V lock A	24 V run A	24 V lock A
ROM-1	**35 (26)**	20	4.2	1.2	2.2	0.6	1.2
ROM-A	**50 (37)**	30	4.2	1.2	2.2	0.6	1.2
ROM-2	**90 (66)**	17	43	2.5	20	1.1	11
ROM-3	**150 (111)**	28	43	3.2	20	1.5	11
ROM-4	**400 (295)**	23	92	11	42	5.5	21
ROM-5	**500 (369)**	30	92	11	42	5.5	21
ROM-6	**650 (479)**	38	92	11	42	5.5	21
ROM-7	**800 (590)**	46	92	11	42	5.5	21

1-phase performance.

110 V AND 220 V

Model	Torque Nm (lbf.ft)	Time 50 Hz s	Time 60 Hz s	Motor power W	110 V run A	110 V lock A	220 V run A	220 V lock A
ROM-1	**35 (26)**	15	13	5	0.5	0.4	0.23	0.25
ROM-A	**50 (37)**	22	19	5	0.5	0.4	0.23	0.25
ROM-2	**90 (66)**	17	15	43	1.2	1.7	0.65	1.0
ROM-3	**150 (111)**	28	24	43	1.2	1.7	0.65	1.0
ROM-4	**400 (295)**	20	17	105	2.3	5.0	0.85	2.3
ROM-5	**500 (369)**	26	22	105	2.3	5.0	0.85	2.3
ROM-6	**650 (479)**	33	28	105	2.3	5.0	0.85	2.3
ROM-7	**800 (590)**	40	34	105	2.3	5.0	0.85	2.3

3-phase performance.

220 V, 380 V AND 440 V

Model	Torque Nm (lbf.ft)	Time 50 Hz s	Time 60 Hz s	Motor W	220 V run	220 V lock	380 V run	380 V lock	440 V run	440 V lock
ROM-2	**90 (66)**	16	14	46	1.3	1.8	0.45	0.83	0.58	0.80
ROM-3	**150 (111)**	26	22	46	1.3	1.8	0.45	0.83	0.58	0.80
ROM-4	**400 (295)**	20	17	105	2.45	4.5	0.7	2	0.9	1.77
ROM-5	**500 (369)**	26	22	105	2.45	4.5	0.7	2	0.9	1.77
ROM-6	**650 (479)**	33	28	105	2.45	4.5	0.7	2	0.9	1.77
ROM-7	**800 (590)**	40	34	105	2.45	4.5	0.7	2	0.9	1.77

Currents in A. Power supply voltage and frequency tolerances maintain actuator rated torque; duty cycle and operating speed are not guaranteed.

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Operating voltages.

• AVAILABLE · – NOT AVAILABLE

Model	12 VDC	24 VDC	12 VAC	24 VAC	110 V/1	220 V/1	220 V/3	380 V/3	440 V/3
ROM-A	•	•	•	•	•	•	–	–	–
ROM-1	•	•	•	•	•	•	–	–	–
ROM-2, 3	•	•	•	•	•	•	•	•	•
ROM-4, 5, 6 & 7	•	•	•	•	•	•	•	•	•
ROMpak-A	•	•	–	–	•	•	–	–	–
ROMpak-1	•	•	–	–	•	•	–	–	–
ROMpak-2, 3	•	•	–	–	•	•	•	•	•
ROMpak-4, 5, 6 & 7	•	•	–	–	•	•	•	•	•
ROMH-1	•	–	–	•	–	–	–	–	–
ROMH-2	–	•	–	–	–	–	–	–	–
ROMH-3	–	–	–	–	•	•	–	–	–
ROMpakH-1	•	–	–	–	–	–	–	–	–
ROMpakH-2	–	•	–	–	–	–	–	–	–
ROMpakH-3	–	–	–	–	•	•	–	–	–

ROMH & ROMpakH.

HIGH SPEED

Model	Supply	Torque Nm (lbf.ft)	Time s	Motor W	Run A	Lock A
ROMH-1	12 VDC	**8 (6)**	5.5	4.75	1.2	2.2
	24 VAC	**8 (6)**	4.5	4.75	0.65	1.2
ROMH-2	24 VDC	**10 (7)**	4.5	4.75	0.65	1.2
ROMH-3	110 V 1-ph	**13 (10)**	4.5 / 4.3	6.5	0.36	0.4
	220 V 1-ph	**13 (10)**	4.5 / 4.3	6.5	0.23	0.25

ROMH-3 operating time 50 Hz / 60 Hz. All ROMH: hexagonal drive manual override, output drive 14 / 11 / 9 mm, F03/F05; weight ROMH-1 2 kg, ROMH-2 3 kg, ROMH-3 11 kg (ROMpakH 4 / 5 / 13 kg). Not suitable for butterfly valves which may back drive.

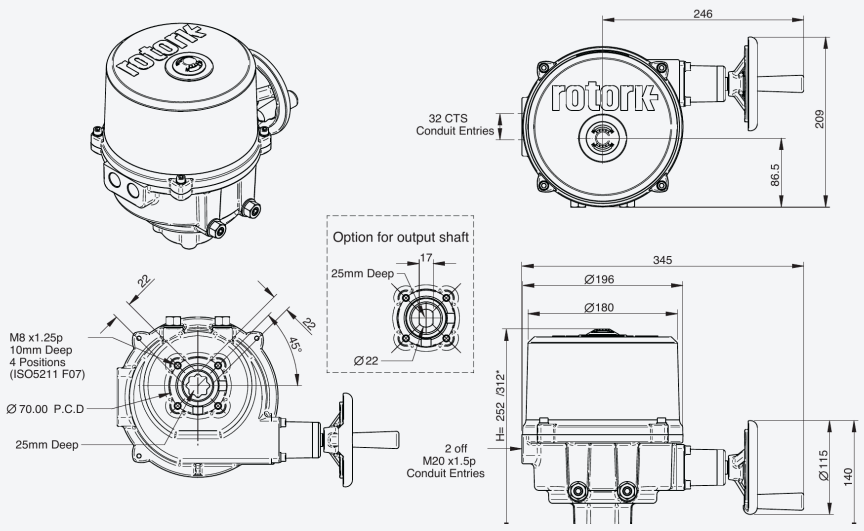
Key dimensions.

MM

Model	Flange	Height H	Notes
ROM-2/3	F07	252 · 312 (12/24 V)	Ø196 cover · 345 overall · H 252 for 110/220 V 1-ph and 220/380/440 V 3-ph
ROM-4/5/6	F10	327	Ø228 cover · 434 overall with / 365 without torque limit switches

All models have 2 × M20 × 1.5p conduit entries. Full dimensional drawings for ROM-1, ROM-A, ROMH and ROM-7 are available on request.

ROM-2/3 · FLANGE F07



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AV®

Automating small quarter-turn valves?

Talk to our UK team about ROM and ROMpak actuators fitted to ball and butterfly valves.

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