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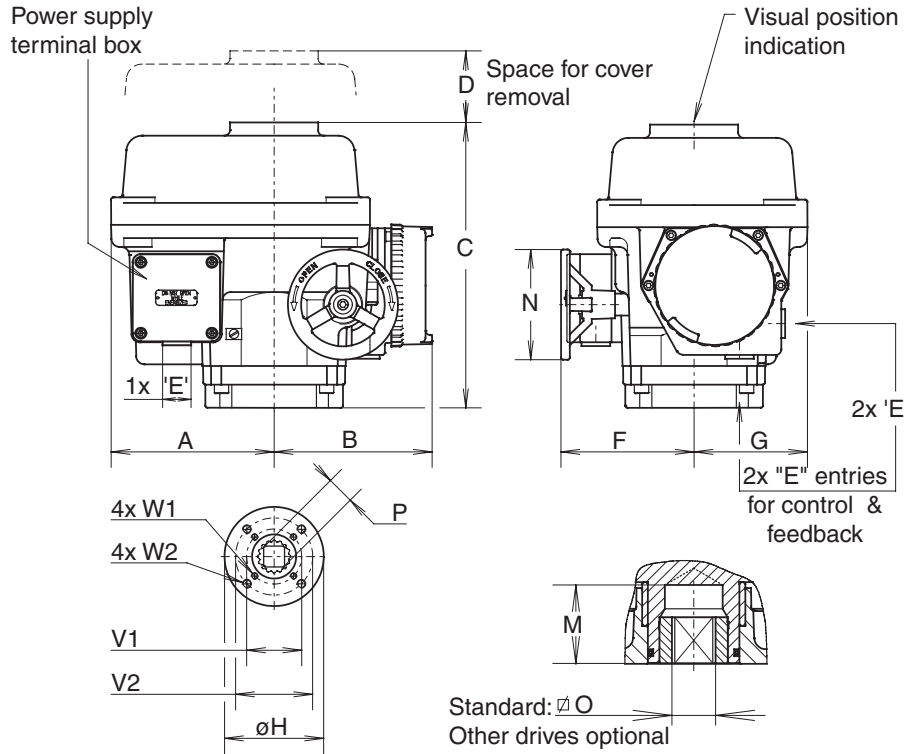
VALVE AUTOMATION SYSTEMS

ELQ-MATIC<sup>®</sup>  
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Dim in mm.	ELQ100	ELQ200	ELQ300	ELQ500	ELQ800
A	148	148	148	182	182
B	144	144	144	184	184
C	260	260	260	305	305
D	100	100	100	100	100
E	1/2"NPT	1/2"NPT	1/2"NPT	1/2"NPT	1/2"NPT
F	118	156	156	219	256
G	103	103	103	132	132
H	125	125	125	175	175
M	50	50	50	60	60
N	100	180	180	300	400
O max.	19.11	19.11	22.13	27.13	36.16
O min.	19.00	19.00	22.00	27.00	36.00
P	25.2	25.2	28.2	36.2	48.2
V1	70	70	70	102	102
V2	102	102	102	140	140
W1	5/16-18 x .53	5/16-18 x .53	5/16-18 x .53	3/8-16 x .63	3/8-16 x .63
W2	3/8-16 x .63	3/8-16 x .63	3/8-16 x .63	5/8"-11 x .98	5/8"-11 x .98

**Kit options:**

- Position control
- Extra limit switches,
- Position transmitter,
- Local control station,
- Speed control
- Status option

**Factory options:**

- IP68,
- Low temp,
- Bus communication : Profibus DP or Fieldbus Foundation.

**Description:**

Series ELQ FM electric actuators are powerful, 1/4 turn units with five sizes covering the torque range from 885 to 7081 In.lb. They incorporate High Ratio Drive (HRD) gearing which provides a compact backlash free reduction gear ideally suited for both tight positional control and long trouble free ON/OFF operation. Universal power control allows direct connection to all the usual voltages.

The explosionproof housing contains the motor, gear reduction and the Electronic Control Unit (ECU). - Electronic control enables precise control of the actuators internal functions and a ready interface to a wide range of control options. Electronic torque control is included as a standard feature. Modular construction is used throughout and allows for a wide range of "kit" and "factory" options.

The manual override handwheel is constantly engaged, it is non-rotating and arranged so that at no time can be back driven by the motor. The handwheels is equipped with a spinner and so can be easily removed. The mounting/drive is to ISO 5211.

**Specification**

- Nominal Rotation : 90° - Analogue adjustable from 10° up to 100° of stroke
- Explosion proof : Class 1, Div. 1, Groups C/D, NEMA 4
- Certificate : Factory Mutual Approval report J.I. 3D6A1.AE
- Temperature : Class T4; -40°C to +60°C
- Electrical Entry : 3 x 1/2" NPT
- Electrical Connection : By internal terminal block.
- Power supply : AC - 115V, 230V, or 400V : (+10% / -6%) 50/60 Hz  
: DC - 24V : (±10%)  
: 24VDC : (±10%)
- Control signal : 24VDC
- Limit Switches : 2 x SPDT, Micro switches (500mA at 30 VDC/VAC)
- Duty cycle : 100%
- Torque Control : Electronic
- Mechanical Stops : At 0° and 90°, adjustable +/- 10°
- Heater : Standard, 10 Watt.
- Visual Indication : On top cover.
- Finish : Polyurethane paint.
- Materials : External Steel Parts : Stainless Steel.  
: Housing : Aluminum alloy

Performance		ELQ100	ELQ200	ELQ300	ELQ500	ELQ800
Max. Torque (Nm.)	Break/Run	100	200	300	500	800
	Speed/90° (Sec.)	max. load	10	14	18	22
no load		6	8	13	17	28
Current (A) Max.	115VAC	1	1	1	1.7	1.7
	230VAC	0.5	0.5	0.5	0.9	0.9
	400VAC	0.3	0.3	0.3	0.5	0.5
	24V DC	4.1	4.3	4	5.3	5.1
Power (W) Nominal		98	102	96	130	125
Weight Kg		13	14	14.5	28	30

DIMENSIONS AND TECHNICAL DETAILS - ELECTRIC ACTUATOR - ELQ XP FM