

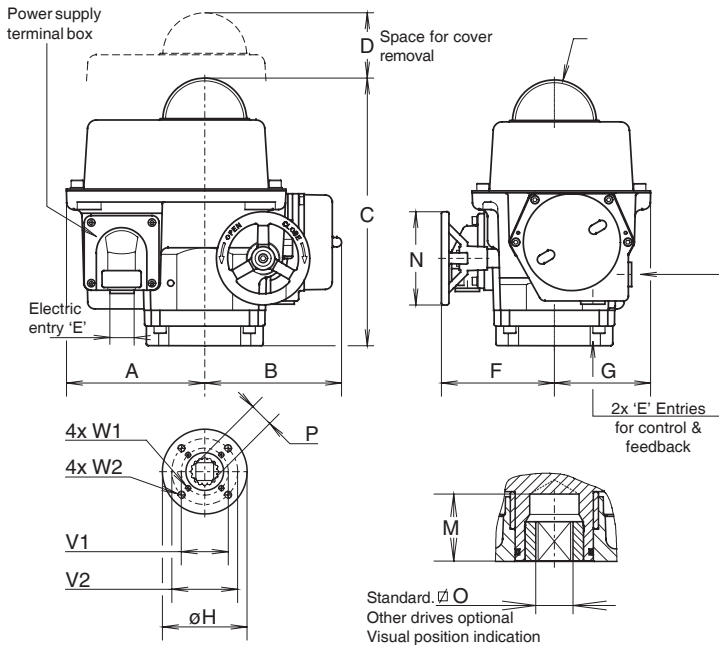
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VALVE AUTOMATION SYSTEMS

EL-O-MATIC<sup>®</sup>  
WWW.EL-O-MATIC.COM

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Nr.: A 5.113

Date: March '06



Dim. in inches	ELQ100	ELQ200	ELQ300	ELQ500	ELQ800
A	5.83	5.83	5.83	7.17	7.17
B	5.79	5.79	5.79	7.36	7.36
C	11.30	11.30	11.30	13.19	13.19
D	3.94	3.94	3.94	3.94	3.94
E	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT
F	4.65	6.14	6.14	8.62	10.08
G	4.06	4.06	4.06	5.20	5.20
H	4.92	4.92	4.92	6.89	6.89
M	1.97	1.97	1.97	2.36	2.36
N	3.94	7.09	7.09	11.81	15.75
O min.	0.748	0.748	0.866	1.063	1.417
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P	0.99	0.99	1.11	1.43	1.90
V1	2.756	2.756	2.756	4.016	4.016
V2	4.016	4.016	4.016	5.512	5.512
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"-11x.98	5/8"-11x.98

**Kit options:**

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

**Factory options:**

- IP68,
- Explosion proof, ATEX or FM
- High temp.,
- Low temp.,
- Bus communication : Profibus DP or Fieldbus Foundation.

**Description:**

Series ELQ 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 aluminum alloy 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.

**Specificaiton**

- Nominal Rotation : 90° - Analogue adjustable from 10° up to 100° of stroke
- Enclosure : IP65 / NEMA 4
- Temperature : -4°F to +158°F
- Electrical Entry : 3 x 1/2" NPT (Option M20 x 1.5 )
- Electrical Connection : By internal terminal block.
- Power supply : AC - 115V, 230V, or 400V (+10% / -6%) 50/60 Hz ; DC - 24V (±10%)
- Control signal : 24VDC (±10%)
- Limit Switches : 2 x SPDT, Micro switches (500mA at 30 VDC/VAC)
- Torque Control : Electronic
- Duty cycle : 100%.
- Mechanical Stops : At 0° and 90°, adjustable +/- 10°
- Heater : Standard, 10 Watt.
- Visual Indication : By raised dome on top cover.
- Finish : Two component polyurethane coating.
- Materials : Housing : Aluminum alloy ; External Steel Parts : Stainless Steel.

Performance		ELQ100	ELQ200	ELQ300	ELQ500	ELQ800	
<b>Torque (In.lb.)</b>		885	1770	2655	4425	7081	
<b>Speed/90° (Sec.)</b>	<b>Max. load</b>	10	14	18	22	36	
	<b>No load</b>	6	8	13	17	28	
<b>Power Supply</b>	<b>115VAC</b>	1	1	1	1.7	1.7	
	<b>Max. Current (A)</b>	<b>230VAC</b>	0.5	0.5	0.5	0.9	0.9
		<b>400VAC</b>	0.3	0.3	0.3	0.5	0.5
<b>Max.</b>	<b>24V DC</b>	4.1	4.3	4	5.3	5.1	
<b>Power (W) Nominal</b>		98	102	96	130	125	
<b>Weight (lb.)</b>		29	31	32	62	66	

DIMENSIONS AND TECHNICAL DETAILS - ELECTRIC ACTUATOR -

ELQ