

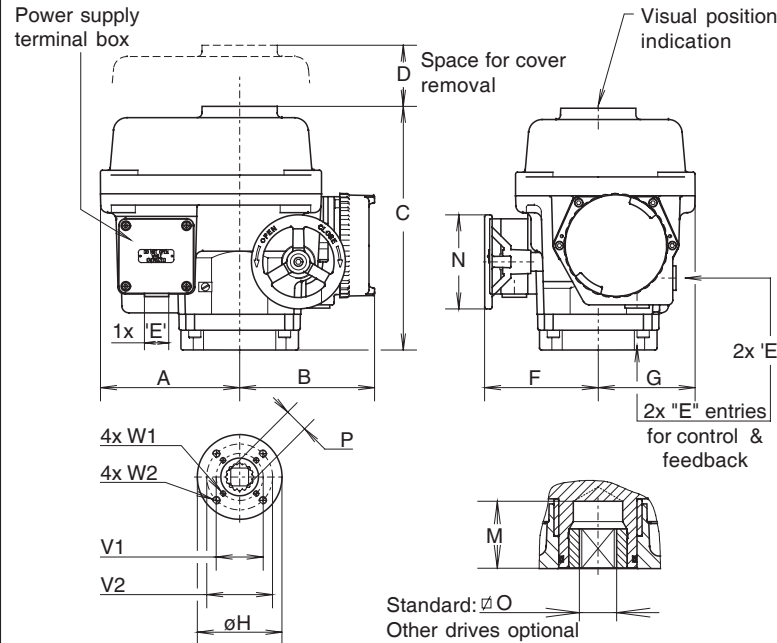
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VALVE AUTOMATION SYSTEMS

ELQ-MATIC[®]
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Nr.: A 5.115

Date: June '05



Dim. in inches	ELQ100	ELQ200	ELQ300	ELQ500	ELQ800
A	5.83	5.83	5.83	7.17	7.17
B	5.67	5.67	5.67	7.24	7.24
C	10.24	10.24	10.24	12.01	12.01
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 max.	0.752	0.752	0.871	1.068	1.424
O min.	0.748	0.748	0.866	1.063	1.417
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"-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
- Enclosure : IP65 / NEMA 4
- Explosion proof : II 2 G EEx d IIB T4, acc. to EN50014 and EN50018
- Certificatenr. : KEMA 03ATEX2128X
- Temperature : -4°F to +158°F
- Electrical Entries : 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)
- Duty cycle : 100%
- Torque Control : Electronic
- Mechanical Stops : At 0° and 90°, adjustable +/- 10°
- Heater : Standard, 10 Watt.
- Visual Indication : By indicator on top cover
- Finish : Two component polyurethane coating.
- Materials : External Steel Parts : Stainless Steel.
: Housing : Aluminum alloy

Performance		ELQ100	ELQ200	ELQ300	ELQ500	ELQ800
Torque (In.lb.)		885	1770	2655	4425	7081
Speed/90° (Sec.)	Max. load	10	14	18	22	36
	No load	6	8	13	17	28
Current (A)	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 (lb.)		29	31	32	62	66

DIMENSIONS AND TECHNICAL DETAILS - ELECTRIC ACTUATOR -

ELQ-XP
ATEX