

EIM Controls, Inc has manufactured high quality valve actuators since 1949. We introduced CONTROLINC, the first digital control system for valve actuators, in 1985. For almost half a century, we have remained pioneers in product innovation and technical design improvement.

We design and manufacture every product to exceed user expectations of superior performance and long operating life. EIM's ISO 9001 certification testifies to our high quality today and our commitment to constant improvement in the future.

Known for rugged construction and long-term reliability EIM actuators are produced by highly skilled and dedicated people at our corporate headquarters outside of Houston, Texas.

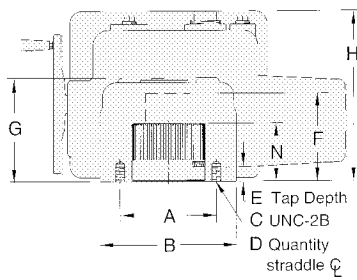
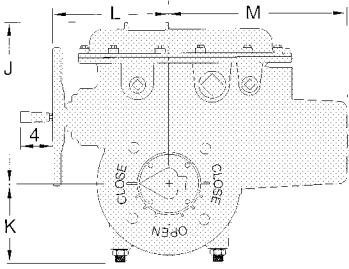
The commitment to innovative information technology allows EIM to lead the industry in competitive application solutions and on-time delivery.

EIM's success is reinforced by our extensive distributor network. Distributors provide the resources necessary to design, install and service a project that will fulfill all customer requirements. Their expertise and after-sale service are especially important in the complex world of two-wire digital control networks.

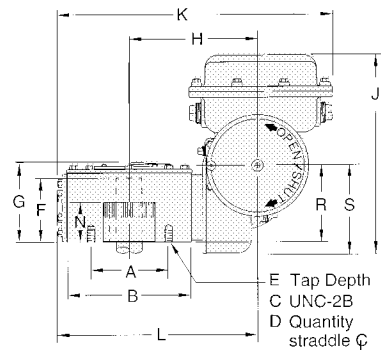
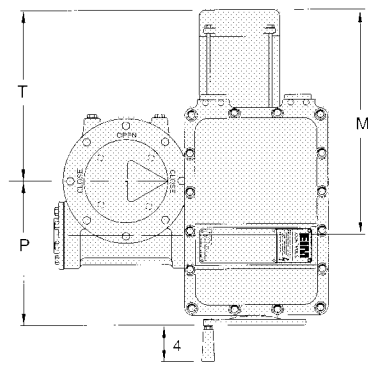
EIM users have consistently described EIM products with one word, QUALITY. The final proof is always in the performance, reliability, and long life of the valve actuator. With almost 50 years of experience EIM is the expert in actuator design and manufacturing that can meet all your valve control needs today and in the future.

SERIES 2000 QUARTER TURN SELECTION GUIDE

THE SERIES 2000 QUARTER TURN electric valve actuator offers a wide range of frame sizes, horsepower ratings and output speeds readily tailored to your specific applications. EIM quarter turn products are selected by application requirements of voltage, torque, operating time, and valve shaft diameter. Actuators are designed for ball, plug, and butterfly valves as well as quarter turn damper and louver drives.



P, Q, & R Top Mount



M/MG Side Mount

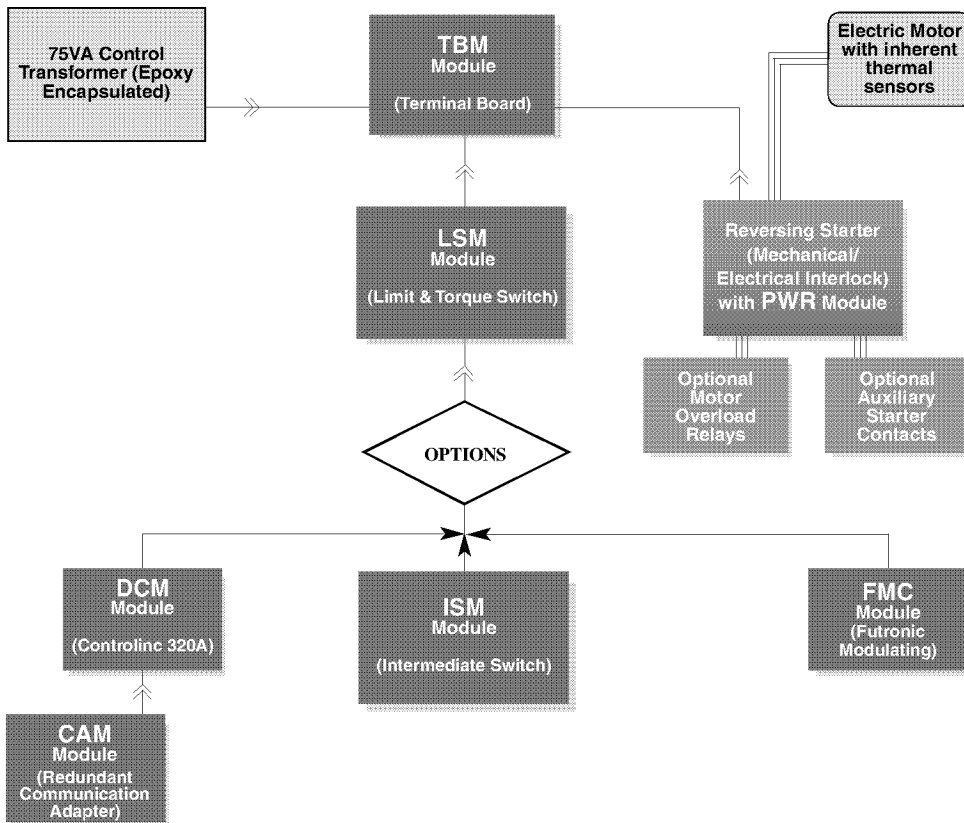
EIM QUARTER TURN								
	P	Q	R	M/MG2	M/MG3	M/MG5	M/MG7	M/MG8
Torque (ft-lb)	210	750	1,500	2,250	7,200	30,000	70,000	150,000
Shaft (max)	1.13	2.00	3.25	3.25	5.00	7.00	9.00	12.00
A Bolt Circle	4.00	4.95	6.50	6.50	11.75	16.00	19.00	29.00
B Base O.D.	4.92	5.91	8.25	9.63	13.50	18.75	22.0	32.0
C UNC-2B	3/8-16	1/2-13	3/4-10	3/4-10	3/4-10	11/4-7	11/4-7	11/4-7
D Quantity	4	4	4	4	8	8	12	12
E Depth	0.80	0.80	1.10	1.00	1.00	1.25	2.50	2.00
F Max	3.5	4.5	4.7	5.9	5.7	7.1	9.8	11.5
G	5.0	5.0	6.9	6.4	6.8	8.5	11.2	15.5
H	11.2	11.2	11.5	10.0	11.7	16.5	24.6	36.5
J*	8.6	8.6	8.6	15.4	15.4	15.4	17.5	30.1
K	4.5	4.5	5.0	22.0	24.8	33.1	44.3	65.5
L	7.5	7.5	8.0	16.1	18.9	27.2	38.4	54.3
M	17.5	17.5	19.2	22.0	22.0	22.0	29.8	40.5
N	2.5	3.0	3.6	3.6	5.0	7.0	9.0	11.3
P				12.3	15.1	18.5	22.0	39.6
R				5.9	6.0	6.9	7.6	12.5
S				6.9	6.9	6.9	7.8	14.0
T				17.8	14.9	11.8	15.8	17.6
Weight (lbs)	90	100	180	210	325	620	1,200	2,600
Splined Bushing (Shaft Range)	0.375 To 1.125	0.500 To 2.000	1.000 To 3.250	1.000 To 3.250	2.500 To 5.000	2.750 To 7.000	5.500 To 9.000	1 PC Drive Sleeve up to 12.000

*Standard M2CP enclosure cover is shown. Add 3.2 inches for full MCP cover.
Dimensions are in inches and are for reference only. Weights are approximate.

AVAILABLE VOLTAGES:	
3 Phase, 60 Hz	208, 230, 440, 460, 575
3 Phase, 50 Hz	380, 415
1 Phase, 60 Hz	115, 208, 230
1 Phase, 50 Hz	115

M2CP MODULAR CONTROL PACKAGE

EIM's M2CP modular control package has been specifically designed to provide users a highly flexible, reliable, and competitively priced control system for electric valve automation. Through its unique design concept, servicing and upgrading can easily be accommodated. The entire package or any of its components can be removed and replaced within minutes. All components have been carefully selected to provide years of trouble free service. The M2CP is the highest quality, most flexible, and accommodating actuator control concept available.



TBM (Terminal Board Module)

- 48 Point Terminal Block
- Dual Secondary Transformer Fuses
- Snubber Circuit (Transient Voltage)
- 4th Pilot Light, Programmable
- 12VDC Internal Supply
- Monitor Relay Option

LSM (Limit Switch Module)

- Open/Close Limit Switch (3-NO/3-NC Contact/Direction)
- Open/Close Torque Switch (1-NO/1-NC Contact/Direction)
- 3 Pushbuttons (Open-Stop-Close)
- 3 LED Pilot Lights (Open-Close-Power On)
- 3-Position Selector Switch (Local-Off-Remote)
- 25 Watt Space Heater

PWR (Power Module)

- 5 Point Power Block Dual
- Primary Transformer Fuses

ISM (Intermediate Switch Module)

- Intermediate Limit Switch (2-NO/2-NC Contacts)
- Potentiometer/s Options
- 4-20mA Feedback Signal
- Interposing Relay Options

FMC (Futronic Modulating Control)

- Position Control
Futronic II (A.C. Motor)
- Process Control
Futronic III (D.C. Motor)
Futronic VIII (Variable Frequency Drive)

DCM (Digital Control Module)

- Controline 320A (Block Valve & Process Control)

CAM (Communication Adapter Module)

- Redundant Communication Channels

M2CP FEATURES & BENEFITS

The greatest benefit of the M2CP is the ease of service and maintenance. The entire electronic package can be removed, assembled and disassembled, and replaced using only a standard screwdriver. Field service can now be performed faster and with fewer mistakes.

Integral Control Panel

- High intensity LED's provide lifetime service and tremendous improvement over standard incandescent bulb designs
- Triple O-ring sealed, stainless steel pushbuttons insure maximum integrity against leaks and corrosion
- Three-position selector switch is also available with padlockable or keyed switch

Reversing Contactor

- Reversing contactor/power module is din rail mounted for snap in/snap out convenience. Captive stainless screw secures module against vibration
- Reversing contactor is mechanically and electrically interlocked
- Power module provides easy access to transformer primary fuses and separate high-voltage terminal strip for incoming power leads
- Optional phase sentry provides out-of-phase protection and correction

Terminal Board Module

- Each transformer secondary is individually fused and grounded on the terminal board module for easy accessibility
- Transient power surge suppressors are located throughout the M2CP to protect electrical components
- Terminal board module provides convenient access to 48 terminal points, analog and digital signal inputs/outputs, and control voltage