

# Electric Actuator QM/AM Series.

DATA SHEET  
QM/AM-XXX

## EXCLUSIVE FEATURES

Enclosure	: Waterproof/Dustproof Aluminium Alloy enclosure(Epoxy coated).
Protection Class	: All actuators qualify to IP-65 requirements; also to NEMA IV X Waterproof and Dustproof enclosure.
Housing	: Aluminium die cast housing which houses lifetime lubricated gear train.
Electric Motor	: Class 'F' Insulated, extended duty cycle induction motor with built-in thermal protection 120°C prevents motor burning when over heated.
Mechanical Position Indicator	: All models have continuous position indicator fitted on the top of actuator cover.
Manual Override	: All are Clutchless design, can be rotated on power failure. Fully protected for personal safety purpose when electric supply ceases, valve can be opened or closed by manual operation; on restoring electricity, manual rotation stops.
Gear Train provides	: High Alloy Steel Planetary gear train, self locking function, to avoid valve back lash. Gear train are sufficiently lubricated with high temperature sustainable lubrication at the factory level.
Control	: The actuator can be Operated by Single Pole Double Throw (SPDT) switch or 3-position switch.
Torque Switches	: All models are fitted with Two Torque Switches to cut off electric supply in case of over torque



Application	: For Ball Valves , Butterfly Valves, Plug Valves, anywhere where 90° turn rotation is required.
Note	: Client has to know, torque rating of their valves. For Calculating Actuators Torque following general guidelines are observed. a)Butterfly Valves: +20% for Water application. b)Butterfly Valves: +35 to 40% for Air and +50%for powder or sludge etc. c)Ball Valve : +20%. d)Plug Valve : +50%. For others please refer to Avcon.

While using Electric Actuator on Ball, Butterfly or Plug Valves - Torque switches which are provided by default, will help to avoid burn out of motor.

This leaflet is general indication of Catalogue nos. Detailed instruction manual is supplied when actuator ordered out.

## VARIOUS OPTIONS AVAILABLE:

110V AC 50 Hz, 24V AC & 24V DC  
Space Heater with thermostat.  
Additional Limit Switches 2-Nos.  
Potentiometer – 500 / 1000 / 5000 Ohms  
Local Control Unit mounted on the actuator for Auto Manual CW & CCW operation.  
Interface unit for accepting 4 to 20 mA signal from PID Controller or other instrument.  
Position Transmitter output 4 to 20 mA.

## SPECIFICATION TABLE

Actuator Model Number	Torque	Speed - 90° Turn	Manual Override Handwheel	Mounting Flange ISO 5211	Weight (Approx.)	Power	Electric Supply
	(NM)	Secs.			Kgs	Watts	V AC
QM/AM-100	100	22	YES	F05-F07	22	40	230 V AC
QM/AM-150	150	15	YES	F05-F07	22	40	230 V AC
QM/AM-250	250	20	YES	F05-F07	22	60	230 V AC
QM/AM-400	400	25	YES	F07-F10	20	60	230 V AC
QM/AM-500	500	30	YES	F07-F10	20	60	230 V AC
QM/AM-650	650	31	YES	F07-F10	20	90	230 V AC