Electric Actuator QR For Regulating Duty, Single Phase Supply.

EXCLUSIVE FEATURES

Enclosure	: Waterproof/Dustproof Aluminium
Protection Class	Alloy enclosure (Epoxy coated). : All actuators qualify to IP-65
Housing	requirements; also to Waterproof and Dustproof enclosures. : Aluminium cast housing which houses lifetime lubricated gear
Electric Motor	train. : Class 'F' Insulated, extended duty cycle induction motor with built-in Thermal protection 120°C prevents
Mechanical Position	motor burning when over heated. : All models have continuous position indicator fitted on the top of
Manual Override	Actuator cover. : All are Clutchless design, can be rotated on power failure. Full protected for Personal safety purpose when electric supply ceases, valve can be opened or Closed by manual operation; on restoring electricity, manual rotation
Gear Train	stops. : High Alloy Steel Planetary gear train, self locking function, to avoid valve back lash, at factory level. Gear train are sufficiently lubricated with high
Control	temperature sustainability. The actuator can be fitted with Two
1) MA0532	different types of Control Cards: : Accepting only 4 to 20mA or 0(2) to 10V DC signal from PID Control, which will position the actuator to required level with help of one Potentiometer, mounted on the actuator.
2) MA0533	Accepting 4 to 20mA or 0(2) to 10V DC signal and position the actuator as per the signal. At the same time, with additional potentiometer provided, the card can give output signal of 4 to 20mA or (2) to 10V DC - (PTR).
Alternately	: This output signal can be used for indicating positioning the valve with the help of 3.5 Digit Panel Meter (DPM), which is supplied with power supply unit. Separate electrical supply of 230V 50 Hz is required to be provided (PTI indicator). In addition, signal of 4 to 20mA can be obtained by connecting through separate terminal, mostly for feeding to PLC.
Torque Switches	: All models are fitted with 2-Nos. Torque Switches to cut off electric supply in case of over torque.



DATA SHEET

QR-XXX

VARIOUS OPTIONS AVAILABLE:

230V/110V AC 50 Hz, 24V AC 50 Hz & 24 DC Anti condensation Space Heater with thermostat. Additional Limit Switches – 2-Nos. Auto Manual Switch for local or remote control available CW or CCW operation.

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	: Torque +20% for water
Valves	application
b) Butterfly	: Torque +35 to 40% for Air and
Valves	+50% for powder or sludge, etc.
c)Ball Valves	: Torque +20%
d)Plug Valve	: Torque +50%
	For others, please refer to AVCON.
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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, in case the actuator gets stuck.

This leaflet is general indication of Catalogue nos. Detailed Instruction Manual is supplied when actuator ordered out.

SPECIFICATION TABLE

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