



MARSH AUTOMATION PVT. LTD.



New Generation **Direct Mounted**

SINGLE PHASE QUARTER TURN ACTUATORS

*Thanks to
Design Simplicity*



The various Types of electrical Actuators from Marsh have been developed specially for the quarter turn operation of small size Butterfly, Ball, Plug valves and dampers. Thanks to their design simplicity to achieve low-cost automation. They are provided with single phase motors which considerably saves the cost of electrical hardware and other accessories.

Also as the actuators are installed directly on final control element and are provided with stall-duty motors, the units become completely maintenance free, that is Fit and Forget type. The units are supplied with all necessary features to operate the final control element in ON/OFF or Modulating modes.

Marsh can also supply units to operate on 24 VDC supply having other features same as that of above mentioned models.

Marsh can also supply:

- Units available for various supply voltages 415, 230, 110 VAC & 24 VDC
- Regulating duty models 4-20 Input / output
- Direct / Indirect Mounting basis
- Flame Proof Versions
- Data logger card

The data logger logs the open & close status of actuator. It will keep on logging the data locally irrespective of its communication with SCADA

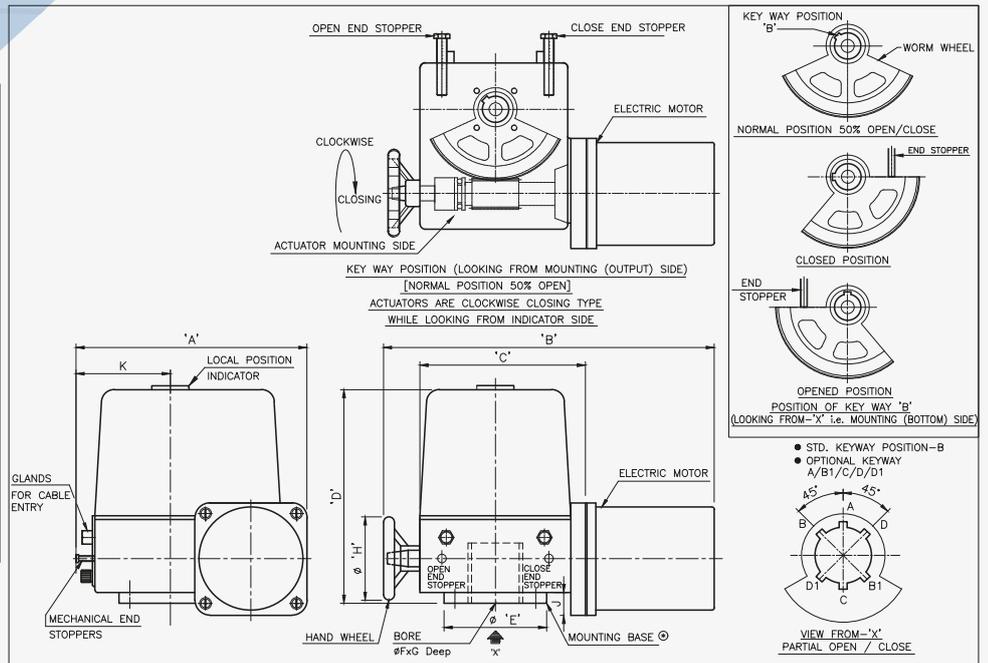
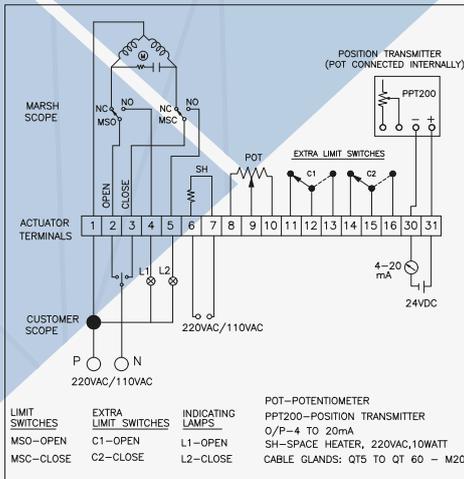
TECHNICAL SPECIFICATIONS

Actuator Data	Actuator Model: 220 VAC							Actuator Models : 24 VDC				
	QT-5	QT-10	QT-20	QT-30	QT-40	QT-50	QT-60	QT-5 DC	QT-10 DC	QT-20 DC	QT-40 DC	QT-60 DC
Rated Output Torque	5	10	20	30	40	50	60	5	10	16	40	60
Operating speed sec/90°	17	20	20	26	26	26	26	10	10	13	13	13
Weight Kg.	9	12	15.5	26	26	28	30	3	6.5	6.7	9	9
Output Watts	125	175	250	290	300	320	350	10	20	25	70	70
Nominal Current Amp	0.55	0.9	1.2	1.3	1.4	1.5	2	1.28	2.03	3	5.13	6.04

Notes : (For All Models)

- * Switching Frequency : Operation/Hour - Short Time : 1200, Normal : 600
- * Degree of Protection : IP65/67/68 * Area of Operation : Safe * Motor Type : Non – Blocking Motor
- * Supply – Standard : 220VAC Single Phase Optional : 110VAC Single Phase / 415VAC Three Phase / 24VDC
- * Class of Insulation : F * Ambient Temperature : 50°C

CONNECTION DIGRAM



ACTUATOR DIMENSIONAL DETAILS (NOT APPLICABLE FOR DC SERIES)

Actuator Models	Dimensions										Keyway Size Width x Depth	* Mounting Base
	A	B	C	D	Ø E	Ø F	G	Ø H	J	K		
QT5	225	295	170	170	85	30	32	100	25	100	6 x 3.3	4H M6 x 12 Deep on 50 PCD off centre (F05) & 4H M8 x 12 Deep on 70 PCD off centre (F07)
QT 10	250	370	217	220	125	40	40	100	19	100	12 X 3.3	4H M8 x 12 Deep on 70 PCD off centre (F07) & 4H M10 x 12 Deep on 102 PCD off centre (F10)
QT 20	252	380	217	220	125	40	40	100	19	100	12 X 3.3	
QT 30	300	485	291	250	148	50	44.5	250	0	110	14 X 3.8	4H M8 x 15 Deep on 90 PCD off centre & 4H M12 x 15 Deep on 125 PCD off centre (F12)
QT 40	300	485	291	250	148	50	44.5	250	0	110	14 X 3.8	
QT 50	300	485	291	250	148	50	44.5	250	0	110	14 X 3.8	
QT 60	300	523	291	250	148	50	44.5	250	0	110	14 X 3.8	



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