



MODEL NUMBER GUIDE

Steps To Create Model Number

1. Choose Actuator Series by Torque:

2. Enclosure

NEMA 4 = 4, NEMA 4X = 4X, NEMA 7 = 7, NEMA 4 & 7 = 4/7 (S, M, L, ES & AS)

3. Voltage

A=24Vac, B=115Vac, Z=115Vac Ext. duty doubles cycle time, pertains to S & M series, C=230Vac/1Ph, D=12Vdc, E=24Vdc, G2=230V-3Ph, G3=380V-3Ph-50Hz, G4=440-3PH, J=208Vac

Voltage symbol followed by an M designates Metric tapped mounting holes.

4. Mounting Pad

R series=F03, F04 or F03/04, SR/SX=F05, M series=F07 all others NA.

5. Cycle Time (See list)

* Fail Designation (Spring Return Only)

FC = Fail Close, FO = Fail Open.

NOTE: Actuators with output torque below 1500 lb-in are equipped with 25% duty cycle motors, when used for modulating service extended duty motors are supplied which doubles the cycle time.

Quarter Turn Actuator	Torque (In/Lbs)	Torque (Nm)	Cycle Time (Sec./90 Deg.)	Lock Rotor Current in Amps for 115Vac
R	100	11.3	2.5	0.55
SD	200	22.6	5	0.75
SDX	300	33.9	5	0.75
SR	200	22.6	5	0.75
SX	300	33.9	5	0.75
MS	400	45.2	10	0.75
MR	675	76.3	15	0.75
ML	1000	113	15	0.75
MH	1500	170	30	0.75
LA	2000	226	12	1.5
LX	3840	434	14	2.9
5K	5000	565	68	2.9
7K	7020	793	68	7.1
12K	11520	1299.3	68	7.1
14K	14040	1586.3	68	7.1
27K	27300	3084.5	136	7.1
Spring Return Actuator	Torque (In/Lbs)	Torque (Nm)	Cycle Time Power/Spring	Lock Rotor Current in Amps for 115Vac
ES2	200	22.6	10/2	0.75
AS4	400	45.2	12/3	1.5
AS6	600	67.8	12/4	1.5
AS10	1000	113	12/5	2.9

OPTIONS:

6. Auxiliary Switch

-S=1, -2S=2, -3S=3, -4S=4.

7. Manual over ride

Standard on all NEMA 4 enclosures no symbol required. Standard on K, L & M series NEMA 7 enclosure. M symbol required on M series only. S series over ride with hand wheel. .M=Manual over ride with push knob. Consult factory for availability on spring return actuators.

8. Brake

P=Power On Brake, P1=115V, P2=230V, P3=24Vac, P4=12Vdc, P5=24Vdc Power Off Brake.

9. Potentiometer

-1=Signal turn 1K, -1A= Dual signal turn 1K, -1B=Pot with 3:1 ratio, -5K=Signal turn 5K.

10. Positioner

VP=Modulating control 4-20mA, 0-10Vdc all voltages, VQ=High resolution



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| 11. <u>Heater or Heater & Thermostat</u> | H =heater normally used for condensation, HT =heater & thermostat used for temperature control |
| 12. <u>Breather</u> | BR normally used for condensation. |
| 13. <u>Speed Control</u> | SC used to increase standard cycle time. |
| 14. <u>Timer</u> | T allows repeat of open to close cycle at same time every day. |
| 15. <u>Three Position</u> | -3P used for three positions control, i.e., 0, 90 & 180 deg., also for dribble control. |
| 16. <u>Light indication</u> | L green light to indicate open position & red light to indicate close position. |
| 17. <u>Visual Indicator</u> | DI =Beacon, D =Pointer, Dome style indicator standard on all actuators except SR, SX & AS series. |
| 18. <u>Transmitter</u> | -TX =4-20mA position transmitter. |
| 19. <u>Remote/Off/Local</u> | RL =Remote/off/local control panel with selector switches and light indication. |
| 20. <u>Two Wire Control</u> | TW = Open/close control using relay (230Vac, 120Vac, 24Vac, 24Vdc or 12Vdc available). |
| 21. <u>Torque Sensor</u> | -TS electronic torque sensor (current sensor). |
| 22. <u>Multi-Turn</u> | -MT multiple revolutions. |
| 23. <u>Reversing Contact</u> | RC reversing control for DC & 3Ph. motors. |
| 24. <u>Transformer</u> | -TR control voltage transformer used on 3 Ph. motors. |
| 25. <u>Additional Conduit</u> | AC one additional conduit entry, not available on all models. |
| 26. <u>Special Mounting</u> | PC special mounting pad configuration. |
| 27. <u>Mechanical Stop</u> | MS mechanical stop. |

EXAMPLE: Electric actuator to deliver 1000 LB-IN torque, 120Vac, NEMA 7 enclosure, 2 auxiliary switches, heater & thermostat.

In the chart, find 1000 LB-IN torque, select model ML, straight across to the right find the cycle time, 15sec/90 deg. Start down the selection list and pick out the items required for your application and list them in the order they fall in, if an item is not selected merely ignore it. The model number for our example would be: **ML7B-15-2SHT**