SPEARS

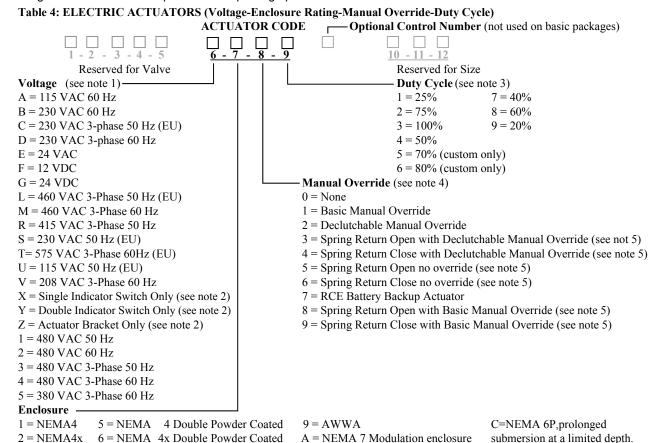
Actuated Valves Technical

Electric Actuator Selection

Step 2: Actuator Code Selection

Spears® actuated valves are available with either electric or pneumatic motors. Actuators are pre matched to each type and size of valve with proper operating torque and cycle time. Additional actuator accessories are selected and are factory installed on the Actuated Valve Package in Step 3 instructions

Select the applicable options from either the Electric Actuators (Selection Table 4) or Pneumatic Actuators (Selection Table 5) and enter the designated **Actuator Code** portion of the package part number.



Notes:

1 - 460 VAC available on Butterfly Valves only.

3 = NEMA 74 = NEMA 9

2 - Bracket & Indicator Switch Only part numbers do not allow any other options(must be Z000, Y000, or X000).

7 = NEMA 7 Double Powder Coated

8 = NEMA 9 Double Powder Coated

3 - Standard Duty Cycles vary according to valve type and size as indicated in chart below. <u>Standard</u> Duty Cycles can be *upgraded* only. Note: 50% duty cycle available on non-standard, special order actuators only.

| Valve Type | Size Range | 25% Duty Cycle | 75% Duty Cycle | 100% Duty Cycle |
|-----------------|--------------|----------------|----------------|-----------------|
| Ball Valve | 1/2" - 2" | | X | |
| Ball Valve | 2-1/2" - 4" | X | | |
| Butterfly Valve | 1-1/2" - 10" | X | | |
| Butterfly Valve | 12" - 24" | | | X |
| Diaphragm Valve | 1/2" - 8" | X | | |

B = NEMA 6

(for 1/2"-2" modulated Ball /Butterfly) D=NEMA 8

- 4 Basic Manual Override is standard on Ball Valve sizes 1/2" 3" with Declutchable Manual Override as an option. Declutchable Manual Override is standard on Ball Valve sizes 4" & larger and all Butterfly Valves. Standard Gate Valve and Diaphragm Valve packages have no override with Declutchable Manual Override as an option. Spring return not available on electric Diaphragm valves.
- 5 Electric Spring Return Actuators come standard with no type of override. Need to verify if either Declutchable Manual Override or Basic Manual Overrides are available in all applications.