



## Actuated Valves Product Guide & Engineering Specifications

### Electric Options & Accessories Overview

The basic options and accessories listed in this section represent many of the most commonly used for electric actuation, factory configured to order on the actuation package. Contact Spears® for any desired accessories, options, functions, or special controls not listed.

#### Overview of Basic Options & Accessories

Options & Accessories	Electro Series Ball Valves	Premium Electric TU Ball Valves	Premium Electric Butterfly Valves	Premium Electric Diaphragm Valves
24 VAC	✓	✓	✓	✓
230 VAC	✓	✓	✓	✓
230 VAC 3-phase, 60Hz	--	✓	✓	✓
230 VAC 3-phase, 50 Hz	--	✓	✓	✓
12 VDC	✓	✓	✓	✓
24 VDC	✓	✓	✓	✓
NEMA 4X, 7, 9 Rating	4X Standard	✓	✓	✓
Declutchable Manual Override	--	✓	✓	✓
Duty Cycle Upgrade	✓	✓	✓	✓
Spring Return (Fail Safe)	--	✓	✓	--
Positioner Board (modulating)	--	✓	✓	✓
Transmitter	--	✓	✓	✓
"2-Wire" Control Relay	✓	✓	✓	--
Position Indicator (Visual)	✓	✓	✓	--
LED Indicator Lights	--	✓	✓	✓
Heater	--	Standard	Standard	✓
Thermostat	--	✓	✓	✓
Limit Switch Sets	--	✓	✓	✓
Torque Sensor	--	✓	✓	✓
Speed Controller	--	✓	✓	✓
ID Tag - SS	✓	✓	✓	✓



*Contact Spears® for any desired accessories, options, functions, or special controls not listed in this guide.*



### Standard (2-position) Actuator Voltage Options

Voltage options are listed for each type with 2-position (open/close) actuation. See Modulating Service Option for variable position actuators and applicable voltages.

#### Electro Series Ball Valves (All 1/2" - 2")

Voltage Options
12 VAC
24 VAC
230 VAC
12 VDC
24 VDC
115 VAC

#### True Union 2000 Ball Valves

Voltage Options
24 VAC
230 VAC
12 VDC
24 VDC

#### Diaphragm Valves

Voltage Options
24 VAC
230 VAC
12 VDC
24 VDC

#### Butterfly Valves

Voltage Options
24 VAC
230 VAC
12 VDC
24 VDC

### Enclosure NEMA Rating Options

Standard enclosures are a minimum of NEMA 4. The following NEMA ratings are available for all True Union Ball Valves, Butterfly Valves and Diaphragm Valves (see NEMA Ratings in Terminology & Definitions for additional description detail).

Enclosure Rating	General Description
NEMA 4	Watertight & Dust Tight
NEMA 4X	Watertight & Dust Tight with corrosion resistance
NEMA 7	Explosion Proof (class I, division 1, groups A, B, C, D)
NEMA 9	Explosion Proof (class II, division 1, groups E, F, G)

### Declutchable Manual Override Option

Available for all Premium Electric actuated valves.

Valve Type
True Union 2000 Ball Valve
Butterfly Valve
Diaphragm Valve

Slightly different than straight manual override, *Declutchable* Manual Override disengages the actuator gear train for manual operation of the valve. Valves with this option have a hand wheel mounted on top of the actuator for manual valve operation.



### Duty Cycle Upgrade Option

Upgrades in duty cycles use heavier motors to handle heat build up from extended operation. Contact Spears® for specific Duty Cycle information.

### Spring Return (Fail Safe) Option

An internal spring in the actuator is configured to either open or close upon loss of power supply. Special gear clutch uncouples motor during spring return. Operation can be specified as either fail-open when spring return open is desired or fail-close when spring return close is desired.