# **Electro Series Actuated Ball Valves**



The Electro Actuated Ball Valve provides high quality, basic on-off electrical actuation at an economical price, with voltage options and special "2-wire" control available. This prepackaged combination is constructed with an all plastic NEMA 4X enclosure directly mounted to a PVC or CPVC valve body for lighter weight and a low profile design for minimal space requirements. All Electro Series Ball Valves are pressure rated to 235 psi and suitable for vacuum service. Available in IPS sizes 1/2" - 2", with socket, threaded, or flanged ends and choice of EPDM or FKM O-ring seals.



## **ELECTRO ACTUATED COMPACT 2000 BALL VALVE**

Compact Electro Ball Valves are built around Spears® industrial grade Compact 2000 Ball Valve. This heavy bodied, sealed unit design is well suited for a multitude of general purpose, industrial, and OEM actuation needs.



## **ELECTRO ACTUATED TRUE UNION BALL VALVE**

The Electro True Union Ball Valve utilizes Spears® industrial grade True Union Ball Valve. This fully repairable, double union style allows easy in-line removal for servicing and is the valve of choice for many industrial and chemical processing applications.

## **ELECTRO 50 & 100 ACTUATOR SPECIFICATIONS**

Motor:	Brushless, Non-Reversing, Shaded Pole,
	Thermally Protected
Torque:	ELECTRO-50 50 in./lbs. (1/2" - 1" Valves)
	ELECTRO-100 100 in./lbs. (1-1/4" - 2" Valves)
<b>Opening Time:</b>	5 seconds
Closing Time:	5 seconds
Duty Cycle:	25% standard (optional 75% available)
Limit Switch:	Cam Operated, Omni Directional, SPDT
Housing:	NEMA 4X (Weatherproof, Corrosion Proof),
	High Impact Polypropylene, SS 316 Fasteners
	1/2" NPT Connection
Indicator:	Visual Open/Close - Standard
Voltage:	115V standard (see Voltage Options)

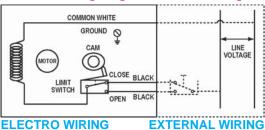
Optional "2-Wire" Control:

Control switch setup operates as a solenoid valve. Valve opens when control switch is open 5-seconds and closes when control switch is closed 5-seconds. Uses 4-wire connection with 2 wires to line voltage and 2 wires to SPST control switch.

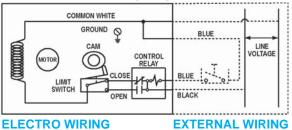
#### **Voltage Options:**

Voltage	Load AMP Electro-50	Load AMP Electro-100
12 VAC	2.40	N/A
24 VAC	2.1	7.8
115 VAC	.6	1.9
230 VAC	.5	1.5
12 VDC	.3	.2
24 VDC	.2	.2

#### Standard Wiring Diagram 115 VAC Wiring



### "2-Wire" Control Wiring Diagram

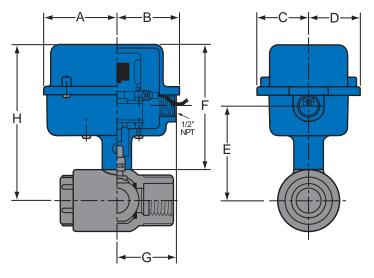


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## **Compact Ball Valve**



#### **Actuated Compact Ball Valve Dimensions**

Valve Size	А	В	С	D	E	F	G	н
1/2	2-7/8	2-1/2	2	2	3-3/8	5-5/8	2-5/16	6-5/8
3/4	2-7/8	2-1/2	2	2	3-9/16	5-5/8	2-5/16	6-7/8
1	2-7/8	2-1/2	2	2	3-5/8	5-5/8	2-5/16	7-1/16
1-1/4	3-5/8	2-7/16	2	2	4-3/4	5-7/8	2-7/16	7-5/8
1-1/2	3-5/8	2-7/16	2	2	5	5-7/8	2-7/16	7-7/8
2	3-5/8	2-7/16	2	2	5-1/2	5-7/8	2-7/16	8-3/8

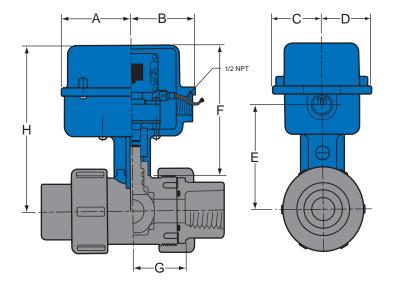
Valve: PVC or CPVC Industrial Grade Valve, Non-Repairable Sealed Unit PTFE Seats EPDM or FKM O-rings Socket, Threaded or Flanged End Connection Vacuum Service Rated Pressure rated to 235 psi water @ 73°F (Flanged to 150 psi)

#### Sample Engineering Specification

All actuated ball valves shall be PVC or CPVC construction with direct mount electric actuator. Valve shall be compact sealed unit type, pressure rated to 235 psi @ 73°F (150 psi for flanged), with PTFE seats, Safe-T-Shear<sup>®</sup> Stem, EPDM or FKM O-rings, and socket, threaded or flanged end connections. Actuator shall be direct mount, with brushless non-reversing quarter turn motors and built in visual open/close position indicator. Actuator housing shall be weather proof and corrosion proof (NEMA4X) with type 316 stainless steel fasteners, as manufactured by Spears<sup>®</sup> Manufacturing Company.



## **True Union Ball Valve**



#### **Actuated True Union Ball Valve Dimensions**

Valve Size	А	В	С	D	E	F	G	Н
1/2	2-7/8	2-1/2	2	2	3-3/8	5-5/8	2-5/16	6-5/8
3/4	2-7/8	2-1/2	2	2	3-9/16	5-5/8	2-5/16	6-7/8
1	2-7/8	2-1/2	2	2	3-5/8	5-5/8	2-5/16	7-1/16
1-1/4	3-5/8	2-7/16	2	2	4-13/16	5-7/8	2-7/16	7-5/8
1-1/2	3-5/8	2-7/16	2	2	5	5-7/8	2-7/16	7-7/8
2	3-5/8	2-7/16	2	2	5-1/2	5-7/8	2-7/16	8-3/8

PVC or CPVC Industrial Grade Valve Valve: Double Union Style with Blocked Seal Carrier Fully Repairable & Adjustable PTFE Seats EPDM or FKM O-rings Socket, Threaded or Flanged End Connection Vacuum Service Rated Pressure rated to 235 psi water @ 73°F (Flanged to 150 psi)

Sample Engineering Specification All actuated ball valves shall be PVC or CPVC construction with direct mount electric actuator. Valve shall be True Union type, pressure rated to 235 psi @ 73°F (150 psi for flanged), with buttress threaded union nuts, PTFE seats, Safe-T-Shear® Stem, EPDM or FKM O-rings, and socket, threaded or flanged end connections. Actuator shall be direct mount, with brushless non-reversing quarter turn motors and built in visual open/close position indicator. Actuator housing shall be weather proof and corrosion proof (NEMA4X) with type 316 stainless steel fasteners, as manufactured by Spears® Manufacturing Company.