



## EAU Series Automated True Union Ball Valves

1/2" TO 2" PVC AND CPVC

### VALVE FEATURES

- PVC and CPVC
- FPM or EPDM Seals
- PTFE Seats
- Full Port Design
- Fully Serviceable
- Double O-Ring Stem Seals

### ACTUATOR FEATURES

- UL/CSA Listed Motor
- Thermoplastic NEMA 4/4X Enclosure
- 2.5 Second, 90° Cycle Time
- Permanently Lubricated Gear Train
- Actuator Brake
- 90 or 180° Operation
- Unidirectional, Not Reversing
- Terminal Block Connections
- Standard 120 VAC
- End of Travel Dry Contact Limit Switch
- Thermal Overload Protection
- Lightweight, Compact and Inexpensive

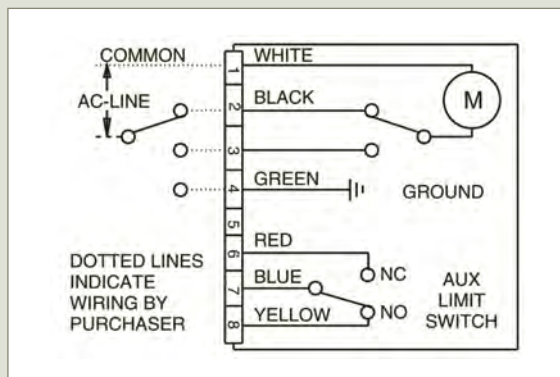
### MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- FPM and EPDM Seals

AUTOMATED VALVES AND ACTUATORS

## TECHNICAL INFORMATION

### WIRING DIAGRAM



### SELECTION CHART

| SIZE                       | VALVE MATERIAL | END CONNECTION      | VALVE SEALS | VALVE PRESSURE RATING       |
|----------------------------|----------------|---------------------|-------------|-----------------------------|
| 1/2" - 2"<br>(DN15 - DN50) | PVC or CPVC    | Socket and Threaded | FPM or EPDM | 250 PSI @ 70°F<br>Non-Shock |

# EAU Series Automated True Union Ball Valves

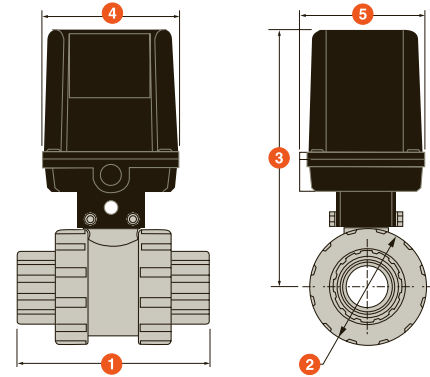
1/2" TO 2" PVC AND CPVC

Distributed By Aetna Plastics

## TECHNICAL INFORMATION, CONTINUED

### DIMENSIONS

| SIZE<br>in/DN | 1<br>in/mm | 2<br>in/mm | 3<br>in/mm | 4<br>in/mm | 5<br>in/mm | WEIGHT<br>lbs/kg |
|---------------|------------|------------|------------|------------|------------|------------------|
| 1/2/15        | 4.63/118   | 2.25/57    | 8.40/213   | 4.88/124   | 4.13/105   | 6.80/3.08        |
| 3/4/20        | 4.75/121   | 2.63/67    | 8.60/218   | 4.88/124   | 4.13/105   | 6.80/3.08        |
| 1/25          | 5.25/133   | 3.00/76    | 9.10/231   | 4.88/124   | 4.13/105   | 7.10/3.22        |
| 1-1/4/32      | 6.30/160   | 4.00/102   | 9.50/241   | 4.88/124   | 4.13/105   | 8.00/3.63        |
| 1-1/2/40      | 6.75/171   | 4.00/102   | 9.50/241   | 4.88/124   | 4.13/105   | 8.10/3.67        |
| 2/50          | 8.00/203   | 4.75/121   | 10.10/257  | 4.88/124   | 4.13/105   | 9.80/4.45        |



Dimensions are subject to change without notice – consult factory for installation information

### ACTUATOR SPECIFICATIONS

| MODEL                      | EAUTB                    |
|----------------------------|--------------------------|
| Torque Output (in-lbs)     | 140                      |
| Standard Voltage           | 120 VAC                  |
| Duty Cycle                 | 25%                      |
| Thermal Overload           | Standard                 |
| Cycle Time (secs*)         | 2.5/5.0                  |
| Conduit Entry              | 1/2" NPT                 |
| Enclosure                  | NEMA 4/4X                |
| Enclosure Material         | Polypropylene            |
| Max Current Amps @ 115 VAC | 1.8 (60 Hz), 2.8 (50 Hz) |

\* EAU28 = 5.0, EAU29 = 2.5

### VALVE SPECIFICATIONS

| VALVE TYPE               | TRUE UNION                              |
|--------------------------|---|
| Material of Construction | PVC, CPVC                               |
| Seals                    | FPM/EPDM                                |
| Seats                    | PTFE                                    |
| End Connections          | Socket or Threaded                      |
| Sizes                    | 1/2", 3/4", 1", 1-1/4"<br>1-1/2" and 2" |
| Pressure Rating          | 250 PSI @ 70°F<br>non-shock             |
| Design                   | Full Port                               |

### Cv VALUES

| SIZE<br>in/DN | Cv VALUES | SIZE<br>in/DN | Cv VALUES |
|---------------|-----------|---------------|-----------|
| 1/2/15        | 8.0       | 1-1/4/32      | 75.0      |
| 3/4/20        | 15.0      | 1-1/2/40      | 90.0      |
| 1/25          | 29.0      | 2/50          | 140.0     |

### PRESSURE LOSS CALCULATION FORMULA

$$\Delta P = \left[ \frac{Q}{Cv} \right]^2$$

$\Delta P$  = Pressure Drop  
 $Q$  = Flow in GPM  
 $Cv$  = Flow Coefficient

