



EA Series Automated True Union Ball Valves

1/2" TO 2" PVC AND CPVC

VALVE FEATURES

- PVC and CPVC
- 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
- Thermal Overload Protection
- Permanently Lubricated Gear Train
- Actuator Brake
- No Need for Manual Adjustments
- Blind Leads Connection
- Standard 120 VAC
- Unidirectional, Not Reversing

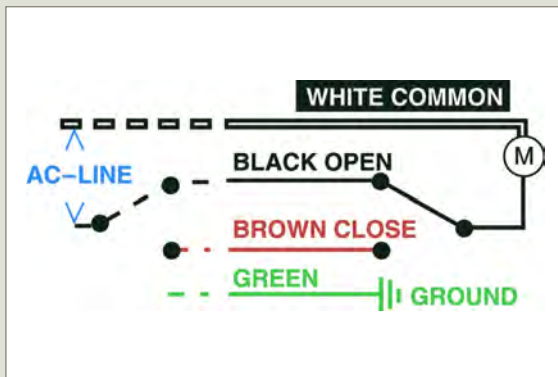
MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- EPDM O-Ring Seals

AUTOMATED VALVES AND ACTUATORS

TECHNICAL INFORMATION

WIRING DIAGRAM



SELECTION CHART

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

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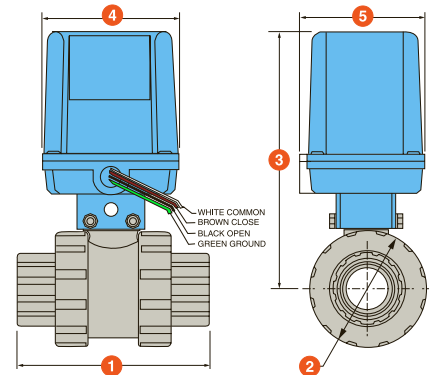
1/2" TO 2" PVC AND CPVC

Distributed By Aetna Plastics

TECHNICAL INFORMATION, CONTINUED

DIMENSIONS

SIZE in/DN	1 in/mm	2 in/mm	3 in/mm	4 in/mm	5 in/mm	WEIGHT lbs/kg
1/2/15	4.63/118	2.25/57	8.30/211	4.75/121	4.34/110	6.80/3.08
3/4/20	4.75/121	2.63/67	8.46/215	4.75/121	4.34/110	6.80/3.08
1/25	5.25/133	3.00/76	8.73/222	4.75/121	4.34/110	7.10/3.22
1-1/4/32	6.30/160	4.00/102	9.50/241	4.75/121	4.34/110	8.00/3.63
1-1/2/40	6.75/171	4.00/102	9.15/232	4.75/121	4.34/110	8.10/3.67
2/50	8.00/203	4.75/121	9.65/245	4.75/121	4.34/110	9.80/4.45



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

ACTUATOR SPECIFICATIONS

MODEL	EATB
Torque Output (in-lbs)	140
Standard Voltage	120 VAC
Duty Cycle	25%
Thermal Overload	Standard
Cycle Time (secs @ 90°)	2.5
Conduit Entry	1/2" NPT
Enclosure	NEMA 4/4X
Enclosure Material	Polypropylene
Max Current Amps @ 115 VAC	1.8

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", 1-1/2" and 2"
Pressure Rating	250 PSI @ 70°F non-shock
Design	Full Port

Cv VALUES

SIZE in/DN	Cv VALUES	SIZE 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

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

ΔP = Pressure Drop
 Q = Flow in GPM
 Cv = Flow Coefficient

