



Certified to
NSF/ANSI 61 & 372

TECHNICAL INFORMATION

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 16 Bar @ 21°C Non-Shock

* PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21.
Not for use with "Z" Ball.

EA1 Series Automated TBH Series Ball Valves

1/2" TO 2" PVC AND CPVC

VALVE FEATURES

- System2™ Sealing Technology for longer life cycle
- 250 PSI / 16 Bar, non-shock at 70°F / 23°C full pressure rating
- Consistent Operating Torque with Adjustment-free Design
- ISO5211 Compliant Mounting Flange
- Permanent Markings, Eliminates Labels
- Integral Footpad for Skid or Panel Mount
- EPDM seals
- Double O-Ring stem seals
- Easy replacement for existing Hayward TB Series
- NSF / ANSI 61 and NSF / ANSI 372 listed

ACTUATOR FEATURES

- ISO5211 Compliant F05 Base
- UL/CSA Listed Motor
- Thermoplastic NEMA 4 / 4X enclosure
- Compact Assembly
- 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

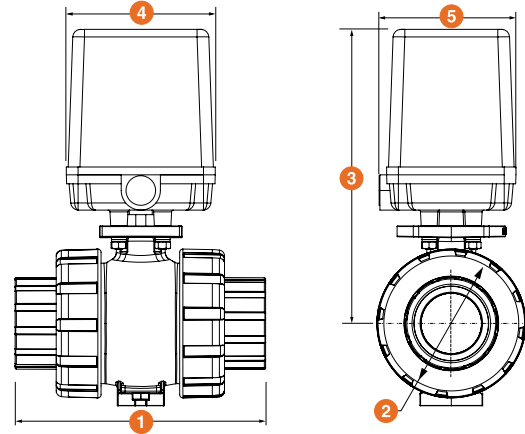
EA1 Series Automated TBH Ball Valves

1/2" TO 2" PVC AND CPVC

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	7.99 / 203	4.88 / 124	4.34 / 110	6.80 / 3.10
3/4 / 20	4.75 / 122	2.63 / 67	8.15 / 207	4.88 / 124	4.34 / 110	7.00 / 3.20
1 / 25	5.34 / 136	3.00 / 76	8.42 / 214	4.88 / 124	4.34 / 110	7.10 / 3.20
1-1/4 / 32	6.83 / 173	4.00 / 102	8.84 / 225	4.88 / 124	4.34 / 110	8.40 / 3.80
1-1/2 / 40	7.39 / 188	4.00 / 102	8.84 / 225	4.88 / 124	4.34 / 110	8.60 / 3.90
2 / 50	7.99 / 203	4.75 / 121	9.35 / 237	4.88 / 124	4.34 / 110	9.90 / 4.50



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

ACTUATOR SPECIFICATIONS

MODEL	EA1
Torque Output (in-lbs)	120
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	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	16.0	1-1/2 / 40	90.0
1 / 25	29.0	2 / 50	150.0

PRESSURE LOSS CALCULATION FORMULA

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

ΔP = Pressure Drop

Q = Flow in GPM

Cv = Flow Coefficient



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USA: 1.888.429.4635 • Fax: 1.888.778.8410 • One Hayward Industrial Drive • Clemmons, NC 27012 • Email: hfcsales@hayward.com

Canada: 1.888.238.7665 • Fax: 1.905.829.3636 • 2880 Plymouth Drive • Oakville, ON L6H 5R4 • Email: hflowcanada@hayward.com

Visit us at: haywardflowcontrol.com

NEW



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TECHNICAL INFORMATION

SELECTION CHART

SIZE	VALVE MATERIAL	END CONNECTION	VALVE SEALS	VALVE PRESSURE RATING
1/2" – 2" (DN15 – DN50)	PVC or CPVC	Socket and Threaded	FPM or EPDM	250 PSI @ 70°F 16 Bar @ 21°C Non-Shock

* PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21.
Not for use with "Z" Ball.

EAU1 Series Automated TBH Series Ball Valves

1/2" TO 2" PVC AND CPVC

VALVE FEATURES

- System2™ Sealing Technology for longer life cycle
- 250 PSI / 16 Bar, non-shock at 70°F / 23°C full pressure rating
- Consistent operating torque with adjustment-free design
- ISO mounting flange
- Permanent markings, eliminates labels
- Integral footpad for skid or panel mount
- FPM or EPDM seals
- Double O-Ring stem seals
- Easy replacement for existing Hayward TB Series
- NSF / ANSI 61 and NSF / ANSI 372 listed

ACTUATOR FEATURES

- UL/CSA Listed Motor
- GFPP 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

OPTIONS

- 24VAC / VDC
- 230 VAC

MATERIALS

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

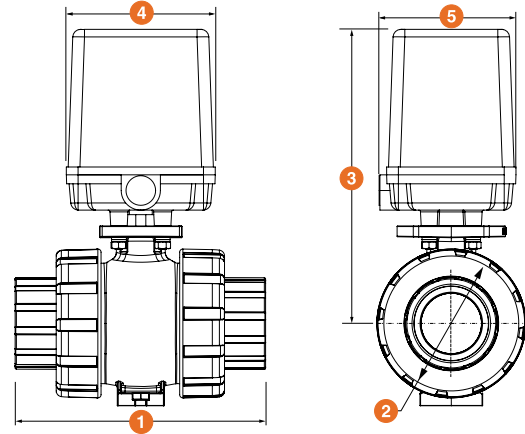
EAU1 Series Automated TBH Ball Valves

1/2" TO 2" PVC AND CPVC

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
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2 / 50	7.99 / 203	4.75 / 121	9.35 / 237	4.88 / 124	4.34 / 110	9.90 / 4.50



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

ACTUATOR SPECIFICATIONS

MODEL	EAU
Torque Output (in-lbs)	120
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	GFPP
Max Current Amps @ 115 VAC	1.8 (60 Hz), 2.8 (50 Hz)

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

* EAU28 = 180° (5.0 sec.), EAU29 = 90° (2.5 sec.)

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	16.0	1-1/2 / 40	90.0
1 / 25	29.0	2 / 50	150.0

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