

Hayward True Union and Butterfly Valves

Hayward TBH Series - True Union Ball Valves

1/2" to 6" PVC, CPVC



Features and Benefits:

- System2™ Sealing Technology provides longer cycle life
- 250 PSI / 16 Bar, non-shock at 70°F / 23°C full pressure rating
- Consistent operating torque with adjustment-free design
- Lockout/Tagout mechanism that secures directly to valve body for enhanced safety
- Ergonomic handle for improved grip and comfort
- ISO mounting flange simplifies actuation
- Permanent markings, eliminates labels
- Integral footpad for skid or panel mount
- FPM or EPDM seals
- Double O-Ring stem seals
- Reversible PTFE seats – Standard
- Easy replacement for existing Hayward TB Series
- NSF / ANSI 61 and NSF / ANSI 372 Listed

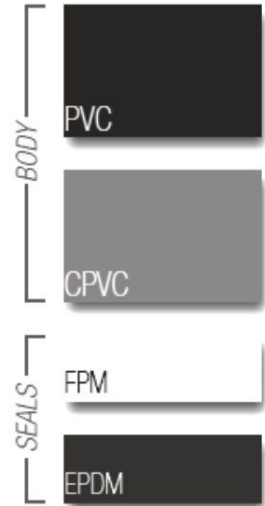
Options:

- Stem Extensions
- Manual Limit Switch
- Z-Ball - Drilled Ball for Sodium Hypochlorite applications with identifiable black handle.
- Pneumatic or Electric Actuators



Certified to NSF/ANSI 61 & 372

MATERIALS



Hayward BYV Series - Butterfly Valves

2" - 12"
PVC, CPVC, GFPP



Features and Benefits:

- One Piece Injection Molding PVC, CPVC or GFPP Body
- PVC, CPVC or GFPP Disc Materials
- Hand Lever with 19 Lockable Stop Positions & 360° Interlocking Splines
- External Disc Position and Flow Indication
- Hydro-dynamic Centric Disc for Increased Flow Performance
- Over-Sized Liner Face Maximizes Surface Contact with Flanges
- 1-Piece 316 Stainless Steel Stem with Threaded Retaining Gland
- Stem Bearing and Seal Retainer for Absolute Stem Position and Seal
- ISO 5211 Top Flange and Stem Drive
- All Sizes Meet ANSI B16.10 / ISO 5752 Narrow Face-to-Face Dimensions
- Pressure Rated at 150 PSI/10 Bar in All Sizes @ 70°F Non-Shock
- NSF / ANSI 61 and NSF / ANSI 372 Listed

Options:

- Lock Out Caps
- Stem Extensions
- Over-Molded 316 Stainless Steel Lugs
- Titanium or Hastelloy™ Stem Materials
- Gear Operators
- Complete Range of Pneumatic or Electric Actuators
- 2" Square Operating Nut
- Chain Operator for Gear Box



Certified to NSF/ANSI 61 & 372 PVC/EPDM 2" - 12" CPVC/EPDM 4" - 12"

Hayward BYB Series - Large Diameter Butterfly Valves

14" TO 24"
PVC, CPVC, PP AND PVDF



Features and Benefits:

- PVC, CPVC, PP and PVDF Bodies
- PVC, CPVC, PP and PVDF Discs
- Heavy Duty Gear Operator
- 410 Grade Stainless Steel Stem
- Choice of FPM, EPDM or Nitrile Liners

Options:

- Pneumatic and Electric Actuation
- Stem Extensions

SIZE	BODY MATERIAL	DISC MATERIAL	LINERS	PRESSURE RATING (NON-SHOCK)
14-16" (DN350-DN400)	PVC,	PVC,	FPM,	86 PSI @ 70°F (6 BAR @ 21°C)
18" (DN450)	CPVC, PP or PVDF	CPVC, PP or PVDF	EPDM or Nitrile	72 PSI @ 70°F (5 BAR @ 21°C)
20-24" (DN500-DN600)				51 PSI @ 70°F (3 BAR @ 21°C)



Hayward True Union Ball Valves

Hayward TB Series True Union Ball Valves

1/2" TO 6" PVC AND CPVC



Features:

- PVC and CPVC
- Full Port Design Through 4"
- Reversible PTFE Seats
- Double O-Ring Stem Seals
- Easily Actuated
- NSF/ANSI 61 & 372 Listed
- Actuator-Ready Design

Options:

- Pneumatic and Electric Actuation
- Lockouts Available
- Gear Operator
- 2" Square Operating Nut
- Stem Extensions
- Spring Return Handle



SIZE	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING (NON-SHOCK)
1/2"-4"	PVC or CPVC	Socket, Threaded or Flanged**	FPM or EPDM	235 PSI @70°F (16 BAR @ 21°C)
6"*		Flanged		150 PSI @70°F (10 BAR @ 21°C)

* 4" valve venturied to 6"

**All Flanged valves are rated to 150 PSI @ 70°F Non-Shock

***PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21. Flanged ends available in DIN/EN PN10.

Hayward TBH Series with "Z-Ball" True Union Ball Valves

1/2" TO 2" PVC AND CPVC



Features:

- Drilled Ball for Sodium Hypochlorite applications
- Ergonomic black identifiable handle for improved grip and comfort
- Lockout/Tagout mechanism that secures directly to valve body for enhanced safety
- Reversible PTFE Seats
- Double O-Ring Stem Seals

Options:

- Pneumatic and Electric Actuation
- Stem Extensions
- Manual Limit Switch
- Coupling for Actuator



SIZE	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING (NON-SHOCK)	**PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21. PP socket fusion ends per ASTM F2389 and threaded ends per BS21. Flanged ends available in DIN/EN PN10.
1-1/2"-2" (DN15-DN50)	PVC or CPVC	Socket or Threaded	FPM	250 PSI @70°F (16 BAR @ 21°C)	
		Flanged		150 PSI @70°F (10 BAR @ 21°C)	

EAU1 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

*PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21.

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

SIZE*	MATERIAL	END CONNECTION	SEALS	VALVE PRESSURE RATING
1/2"-2" (DN15-DN50)	PVC or CPVC	Socket and Threaded	FPM or EPDM	250 PSI @70°F (17 BAR @ 21°C) Non-Shock

Hayward True Union Ball Valves

TW Series Three-Way True Union Ball Valves

1/2" TO 6" PVC AND CPVC



Features:

- PVC and CPVC
- Position Indicator
- Easily Actuated
- PTFE Seats
- FPM or EPDM O-Rings
- Double O-Ring Stem Seal

Options:

- Lockouts Available
- Pneumatic and Electric Actuation
- Cross-Flow Ball
- NT Ball
- TP Ball

SIZE**	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING
1/2"-4" (DN15-DN100)	PVC or CPVC	Socket, Threaded or Flanged	FPM or EPDM	150 PSI @70°F (10 BAR @ 21°C) Non-Shock
6"* (DN150)		Flanged		

* 4" valve venturied to 6"

**PVC and CPVC socket ends available to ISO 727-1 and threaded ends to BS21. Flanged ends available in DIN/EN PN10.

LA Series Three-Way True Union Ball Valves

1/2" TO 6" PVC AND CPVC



Features:

- PVC and CPVC
- PTFE Seats
- FPM or EPDM O-Rings
- Double O-Ring Stem Seal
- Simplifies Lateral Connections
- Replaces Valve/Tee Connection Combinations
- Quick, Easy to Install
- Replacement for Zero Dead-Leg Valves

Options:

- Lockouts Available
- Pneumatic and Electric Actuation

Series TW and LA Multiport Valves

Multi-Port Valve Flow Plans - Series TW Body

Flow At	TW Ball		Flow At	NT Ball		Flow At	TP Ball				
0°	Port A		Port B	0°	Port A		Port B	0°	Port A		Port B
90° Center-Off	Port A		Port B	45° No Deadhead	Port A		Port B	90°	Port A		Port B
180°	Port A		Port B	90°	Port A		Port B				

Lateral Valve Flow Plans Series LA Body

Flow At	NT Ball - Standard		
0°	Port A		Port B
90°	Port A		Port B
180°	Port A		Port B

Ordering Information:

Series TW Valve - Choose NT Ball for automated valve applications. Center-off applications use electric actuator with 'Center-off' option. Series LA Valve - NT Ball ONLY

CrossFlo Multi-port Valves

Use Hayward CrossFlo™ True Union Multi-port Ball Valves for isolated straight through and diverting flow requirements. CrossFlo™ multi-port ball valves provide isolated flow patterns in 0°-90° & 0°-90°-180° valve positions. Reduced flow can occur in certain sizes. Review flow requirements with sales associate prior to ordering.

Ordering Information:

Substitute 'CF' (manual) or 'HCCF' (automated) for 'TW' prefix of standard Valve Part No. above. CrossFlo valves are available in 1/2" - 6" size range. Actuators specified separately.

