HAYWARD®

HAYWARD FlowControl

Three-Way Ball Valves

1/2" to 6" - PVC & Corzan® CPVC

Manual Valve

Valve Ready for Actuator Mounting

Three Flow Patterns

Hayward Three-Way Ball Valves come standard with an NT ball that permits the flow to be diverted from the bottom port to either the left or right ports: there is no Off position. An optional TW ball adds what is typically called a center Off position to the NT flow pattern of left or right. An optional TP ball allows flow through all ports at the same time, or flow shutoff.

True Union Design

This makes these valves very easy to maintain by allowing for easy removal from a piping system without breaking down piping connections. Just unscrew the three assembly nuts and lift the valve body out of the line.

Solid Actuator Mounting Design

A manual valve can be easily automated. Just remove the handle and install the Actuator/Mounting Kit. The mounting saddle is integrally molded into the valve body. For rock-solid actuator mounting, the valve incorporates a unique design whereby the mounting bracket mounts directly to the valve body. This assures proper alignment of the actuator to the valve without creating any damaging side loads to cause premature stem seal failure.

No Metal, No Corrosion

Hayward all-plastic Three-Way Valves contain no metal parts. The valves will never fail because of corrosion and they do not require painting or epoxy coating to stand up to aggressive environments.

Features

- Integrally molded mounting saddle
- PTFE seats
- FPM seals
- True union end connections

Options

- Valve safe lockout
- Electric actuators
- Pneumatic actuators
- EPDM seals

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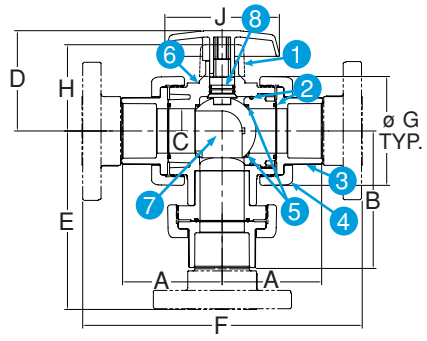
Technical Information



Parts List - Three-Way Valves

1. Mounting Kit (Optional)
2. O-Ring Seals
3. End Connector
4. Assembly Nut
5. Teflon Seats
6. Body
7. Ball
8. Stem

Valve Dimensions - Inches / Millimeters

Size	A	B	C	D	E	F	G	H	J
1/2"	2.30 / 58	3.29 / 84	0.50 / 13	2.94 / 75	3.87 / 98	6.72 / 171	2.25 / 57	2.53 / 64	3.50 / 89
3/4"	2.56 / 65	3.57 / 91	0.75 / 19	2.97 / 75	4.60 / 117	7.50 / 191	2.63 / 67	2.82 / 72	3.50 / 89
1"	2.98 / 76	4.14 / 105	1.00 / 25	3.21 / 82	4.77 / 121	8.50 / 216	3.00 / 76	3.08 / 78	4.00 / 102
1-1/4"	4.39 / 112	5.94 / 151	2.00 / 51	3.63 / 92	5.19 / 132	11.54 / 293	4.00 / 102	3.50 / 89	4.00 / 102
1-1/2"	4.30 / 109	5.87 / 149	2.00 / 51	3.63 / 92	6.00 / 152	11.85 / 301	4.00 / 102	3.50 / 89	4.00 / 102
2"	4.38 / 111	6.00 / 152	2.00 / 51	4.31 / 109	6.75 / 171	12.25 / 311	4.75 / 121	3.95 / 100	5.00 / 127
2-1/2"	5.90 / 150	7.59 / 193	3.00 / 76	7.02 / 178	8.68 / 220	15.92 / 404	6.40 / 163	5.88 / 149	10.50 / 267
3"	5.90 / 150	7.59 / 193	3.00 / 76	7.02 / 178	8.72 / 221	16.00 / 406	6.40 / 163	5.88 / 149	10.50 / 267
4"	7.00 / 178	9.33 / 237	4.00 / 102	8.02 / 204	10.44 / 265	18.88 / 480	8.56 / 217	8.88 / 226	10.50 / 267
6"	n/a	n/a	4.00 / 102	8.02 / 204	11.25 / 286	20.25 / 514	8.56 / 217	8.88 / 226	10.50 / 267

Selection Chart

Size	Material	End Conn.	Seals	Pressure Rating
1/2"-4"	PVC/CPVC	Socket, Threaded or Flanged	FPM or EPDM	150 PSI @ 70F Non-Shock
6"*	PVC/CPVC	Flanged	FPM or EPDM	

*4" Valve venturied to 6"

Cv Factors

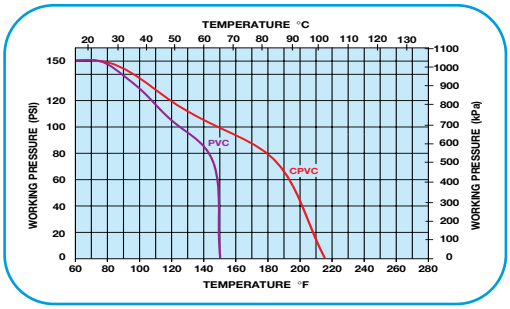
Size	Value	Size	Value
1/2"	3.0	2"	58
3/4"	7.0	3"	190
1"	10	4"	450
1-1/2"	30	6"	340

Pressure Loss Calculation Formula

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

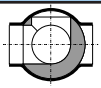
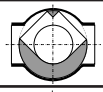
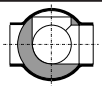
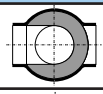
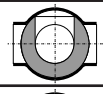
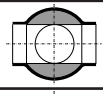
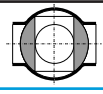
ΔP = Pressure Drop
Q = Flow in GPM
Cv = Flow Coefficient

Operating Temp/Pressure



Flow Schematics

Top View

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

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MC-4-TWABV Rev. 6 Printed in U.S.A.