



TCB Series Industrial True Union Ball Check Valves

1/2" to 2" - PVC, CPVC, PPL, and PVDF



Features

- Full Port Design
- True Union Design
- Easy Maintenance
- FPM or EPDM Seals
- Unique Square Cut Seat
- Works in Any Position
Except Downflow

Backflow Prevention

Hayward's TCB Series Industrial True Union Ball Check Valves prevent reversal of flow in piping systems. They are ideal where backflow could potentially cause damage to pumps, filters, or process equipment.

Automatic Operation

TCB Series True Union Ball Check Valves operate without the need for any adjustments or settings. Line pressure moves the solid plastic ball off the elastomer seat, opening the valve. When the inlet flow stops, back pressure moves the ball back onto the seat – stopping the flow. Additionally, this valve features a unique square-cut elastomer seat to seal at low back pressures.

True Union Design

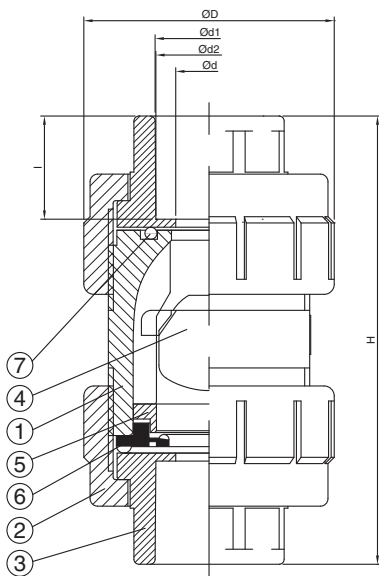
Our ball check valve features a true union design. This allows for easy removal from a piping system without breaking down piping connections. Just unscrew the two assembly nuts and lift the valve body out of the line.

No Corrosion Failures

Because of their all-plastic construction, these valves will never jam or stick as a result of rust or corrosion. Also they will not contaminate sensitive fluids that come into contact with them.



Technical Information



Parts List True Union Ball Check Valves

1. Body
2. Union Nut
3. End Connector
4. Ball
5. Gland
6. Seal
7. O-Ring

Dimensions - Inches / Millimeters

Size	d1	d2	l	D	d	H
1/2 / 15	.85 / 21.54	.84 / 21.23	.87 / 22.22	1.97 / 50	.52 / 13.3	3.74 / 95
3/4 / 20	1.06 / 26.87	1.05 / 26.57	1.00 / 25.4	2.44 / 60	.79 / 20	4.33 / 110
1 / 25	1.32 / 33.65	1.31 / 33.27	1.13 / 28.58	2.83 / 72	.98 / 25	4.73 / 120.1
1-1/4 / 32	1.67 / 42.42	1.66 / 42.04	1.25 / 31.75	2.80 / 71	.98 / 25	4.70 / 119.5
1-1/2 / 40	1.91 / 48.56	1.89 / 48.11	1.38 / 34.93	3.82 / 97	1.57 / 40	6.16 / 156.5
2 / 50	2.39 / 60.63	2.37 / 60.17	1.50 / 38.1	4.21 / 107	1.97 / 50	7.20 / 183

Selection Chart

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

Pressure Loss Calculation Formula

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

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

Operating Temperatures/Pressures

For 150 PSI Maximum Rated Products

