



Series  
BCV

# True Union Ball Check Valve

PVC or CPVC Construction, Economical

A NPT	B	C	D	E	Weight lbs (kg)
1/2	39/64 [14.78]	3-51/64 [96.44]	1-29/32 [48.42]	4-7/32 [107.16]	0.5 (0.22)
3/4	45/64 [17.86]	4-13/64 [106.76]	2-19/64 [58.34]	5-1/8 [130.18]	0.75 (0.34)
1	29/32 [23.02]	4-1/2 [114.30]	2-45/65 [68.66]	6-1/16 [153.99]	1.5 (0.68)
1-1/4	1 [25.40]	5-13/64 [132.16]	3-13/64 [81.36]	6-15/16 [176.21]	1.625 (0.74)
1-1/2	1-13/64 [30.56]	6 [152.40]	3-45/64 [94.06]	7-61/64 [202.01]	1.75 (0.8)
2	1-1/2 [38.10]	6-45/64 [170.26]	4-19/64 [109.14]	9-27/64 [239.32]	3.5 (1.6)
3	2 [50.80]	9-19/32 [243.68]	5-51/64 [147.24]	14-1/4 [361.95]	9.5 (4.3)
4	2-19/64 [58.34]	11-13/64 [284.56]	7 [177.80]	14-29/64 [367.11]	18 (8.2)

The Series BCV True Union Ball Check Valves are economical, thermoplastic ball check valves ideal for chemical and wastewater applications. The true union design allows for easy removal from a piping system without breaking down any piping connections. The valve body can be lifted out of the line by unscrewing two assembly nuts. Series BCV check valves are applied where back flow could potentially cause damage to pumps, filters, or process equipment. Line pressure moves the solid plastic ball off the elastomer seat, opening the valve. When the inlet flow stops, back pressure (3.75 psi minimum) moves the ball back onto the seat, stopping the flow. All plastic construction gives this series of check valves superior corrosion resistance and they will not contaminate sensitive fluids that come into contact with them. BCV check valves can be easily installed horizontally or vertically.

## FEATURES

- Ideal corrosion resistant ball check valve for chemical and wastewater applications.
- Horizontal or vertical installation.
- Easy to service.
- Silicon free construction.

## SPECIFICATIONS

**Service:** Compatible liquids.

**Line Size:** 1/2" to 4".

**Process Connections:** Socket or female NPT.

**Pressure Limits:** 1/2" to 2": 240 psi (16.5 bar), 2-1/2" to 4": 150 psi (10.3 bar).

**Wetted Materials:** Body, Ball, End Connector, Closing Ring, Seal Carrier: PVC or CPVC; Body O-Ring, End Connector O-Ring: EPDM or FPM; foot valve screen: PP.

**Temperature Limits:**

PVC: 32 to 110°F (0 to 43°C).

CPVC: 32 to 200°F (0 to 93°C).

**Other Materials:** Union Nut: PVC or CPVC.

**Agency Approvals:** Meets NSF.

Size	Cv	Model	Body Material	Seal	Connection	Size	Cv	Model	Body Material	Seal	Connection
1/2"	6.9	BCV-1102D	PVC	EPDM	Socket/Threaded	1/2"	6.9	BCV-2102D	CPVC	EPDM	Socket/Threaded
3/4"	9.0	BCV-1103D	PVC	EPDM	Socket/Threaded	3/4"	9.0	BCV-2103D	CPVC	EPDM	Socket/Threaded
1"	21.6	BCV-1104D	PVC	EPDM	Socket/Threaded	1"	21.6	BCV-2104D	CPVC	EPDM	Socket/Threaded
1-1/4"	31.7	BCV-1105D	PVC	EPDM	Socket/Threaded	1-1/4"	31.7	BCV-2105D	CPVC	EPDM	Socket/Threaded
1-1/2"	55.7	BCV-1106D	PVC	EPDM	Socket/Threaded	1-1/2"	55.7	BCV-2106D	CPVC	EPDM	Socket/Threaded
2"	72.8	BCV-1107D	PVC	EPDM	Socket/Threaded	2"	72.8	BCV-2107D	CPVC	EPDM	Socket/Threaded
2-1/2"	135.3	BCV-1108T	PVC	EPDM	Threaded	2-1/2"	135.3	BCV-2108T	CPVC	EPDM	Threaded
2-1/2"	135.3	BCV-1108S	PVC	EPDM	Socket	2-1/2"	135.3	BCV-2108S	CPVC	EPDM	Socket
3"	192.9	BCV-1109T	PVC	EPDM	Threaded	3"	192.9	BCV-2109T	CPVC	EPDM	Threaded
3"	192.9	BCV-1109S	PVC	EPDM	Socket	3"	192.9	BCV-2109S	CPVC	EPDM	Socket
4"	250	BCV-1110T	PVC	EPDM	Threaded	4"	250	BCV-2110T	CPVC	EPDM	Threaded
4"	250	BCV-1110S	PVC	EPDM	Socket	4"	250	BCV-2110S	CPVC	EPDM	Socket
1/2"	6.9	BCV-1202D	PVC	FPM	Socket/Threaded	1/2"	6.9	BCV-2202D	CPVC	FPM	Socket/Threaded
3/4"	9.0	BCV-1203D	PVC	FPM	Socket/Threaded	3/4"	9.0	BCV-2203D	CPVC	FPM	Socket/Threaded
1"	21.6	BCV-1204D	PVC	FPM	Socket/Threaded	1"	21.6	BCV-2204D	CPVC	FPM	Socket/Threaded
1-1/4"	31.7	BCV-1205D	PVC	FPM	Socket/Threaded	1-1/4"	31.7	BCV-2205D	CPVC	FPM	Socket/Threaded
1-1/2"	55.7	BCV-1206D	PVC	FPM	Socket/Threaded	1-1/2"	55.7	BCV-2206D	CPVC	FPM	Socket/Threaded
2"	72.8	BCV-1207D	PVC	FPM	Socket/Threaded	2"	72.8	BCV-2207D	CPVC	FPM	Socket/Threaded
2-1/2"	135.3	BCV-1208T	PVC	FPM	Threaded	2-1/2"	135.3	BCV-2208T	CPVC	FPM	Threaded
2-1/2"	135.3	BCV-1208S	PVC	FPM	Socket	2-1/2"	135.3	BCV-2208S	CPVC	FPM	Socket
3"	192.9	BCV-1209T	PVC	FPM	Threaded	3"	192.9	BCV-2209T	CPVC	FPM	Threaded
3"	192.9	BCV-1209S	PVC	FPM	Socket	3"	192.9	BCV-2209S	CPVC	FPM	Socket
4"	250	BCV-1210T	PVC	FPM	Threaded	4"	250	BCV-2210T	CPVC	FPM	Threaded
4"	250	BCV-1210S	PVC	FPM	Socket	4"	250	BCV-2210S	CPVC	FPM	Socket