

# Series PBV

## Plastic Ball Valves

½" – 2" (15 – 51mm)

### Installation Instructions

#### Model PBV-T (Threaded Connection)

1. When installing this valve, hand tightening is sufficient in most cases. When necessary, a strap wrench may be used.

Caution: Do not use stillson or chain type wrenches as they may damage or distort the body.

2. If metal pipe is screwed into the valve, be careful not to over-tighten. Otherwise, the tapered metal threads can act as a wedge and crack the plastic parts.
3. Watts publishes a chart listing the chemical resistance of PVC to a number of industrial chemicals. This chart can be obtained from your local Watts representative. If there are any questions, consult factory.

#### Model PBV-S (Socket Connection)

**Warning:** Primer or solvent cement used improperly will damage a PVC ball valve.

1. Do not allow primer and/or solvent cement to touch any area other than the ball valve socket.
2. Use of an excessive amount of primer or solvent cement may pool on, drip into or otherwise enter sensitive working parts of a ball valve, damaging the valve.
3. Connecting the pipe or fitting to a valve may allow excess solvent cement into the valve body, which will damage the valve.
4. Follow the instructions provided with the primer and/or solvent cement. Adhere to ASTM Standard D-2855.
5. Do not use a ball valve damaged by solvent cement.

#### CALIFORNIA PROPOSITION 65 WARNING

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)

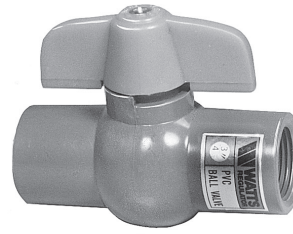
For more information: [www.watts.com/prop65](http://www.watts.com/prop65)

**Limited Warranty:** Watts Regulator Co. (the "Company") warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge.

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Watts Series PBV-T



Watts Series PBV-S

### Socket Cementing

- A. Inspect the pipe end for cracks, dirt, or other imperfections. If the pipe end is imperfect, it can be cut back to expose good material.
- B. Test fit the pipe end to the valve. The pipe should enter the valve but meet resistance ⅓ to ⅔ of the socket depth.
- C. Cut the PVC pipe off squarely to the proper length, using a fine tooth saw or plastic pipe cutter. Remove any burrs and chamfer the outer end of the pipe slightly.
- D. Prime the pipe end and valve socket. Apply primer with a dauber or brush to remove grease, oil, dirt, and to prepare the PVC surface for solvent cementing. Follow the instructions provided by the primer manufacturer.
- E. Liberally apply PVC cement first to the pipe end, and then apply sparingly to the valve socket. (Do not get cement onto the ball or ball cavity). Give the pipe two applications of cement, one before and one after coating the valve socket. Use a dauber or brush that is one-third to one-half the pipe diameter to apply cement. Refer to solvent cement manufacturers' instructions or ASTM Standard D2855.
- F. Immediately join the pipe and valve socket to full depth. Rotate the pipe to spread cement and align the valve. Hold the valve to the pipe until the solvent cement grabs tightly. A bead of cement around the joint indicates that you have used enough solvent cement to ensure a leak-free joint. Do not wipe off the bead. The joint should be ready for use in one hour.

### Safety Precaution

Avoid prolonged breathing of solvent cement and cleaner/primer vapors. Work in a well-ventilated area, and cap the cans after each use. Keep solvent and cleaner away from any open flame. Read and follow the precautions that appear on the labels. Remove any cement on your hands with hand cleaner.



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Water Safety & Flow Control Products

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