



PVC AND CPVC BALL VALVES

INSTALLATION INSTRUCTIONS

Installing PVC and CPVC slip solvent end ball valves onto PVC and CPVC pipes requires careful preparation and attention to detail. Here are step-by-step instructions to guide you through the process, including the selection of appropriate solvents:

1. Preparation

- **Materials Needed:** (note do not mix PVC and CPVC pipes and valves in your application)
 - PVC or CPVC ball valve
 - PVC or CPVC pipe
 - PVC or CPVC solvent/cement
 - Primer (if required)
 - Clean, dry cloth
 - Safety equipment (gloves, safety glasses)
- **Choosing the Correct Solvents:**
 - **For PVC:** Use a solvent cement specifically designed for PVC. It's usually clear or white.
 - **For CPVC:** Select a solvent cement formulated for CPVC applications, often labeled as CPVC cement, often gold or orange in color.

2. Cutting and Cleaning

- **Cut the Pipe:** Ensure the pipe is cut squarely using a pipe cutter.
- **Clean the Pipe:** Wipe the end of the pipe and the inside of the valve's socket with a clean, dry cloth to remove dirt and moisture.

3. Primer Application (If Required)

- **Apply Primer:** If the solvent manufacturer recommends a primer, apply it to both the pipe and the inside of the valve's socket. The primer prepares the surfaces for better bonding.

4. Applying Solvent Cement

- **PVC:** Apply a moderate layer of PVC solvent cement to the outside of the pipe and the inside of the valve's socket.
- **CPVC:** Apply CPVC solvent cement in the same manner, ensuring coverage without over-applying.

5. Joining the Valve and Pipe

- **Insert the Pipe:** Immediately after applying the solvent cement, insert the pipe into the valve's socket. Twist slightly to ensure even distribution of cement.
- **Hold Firmly:** Hold the valve and pipe together for a few seconds to prevent them from pushing apart as the cement sets.

6. Curing Time

- **Wait for the Solvent to Cure:** Refer to the solvent cement's instructions for curing times. Avoid pressurizing or testing the system until the solvent has fully cured.



7. Testing

- **Check for Leaks:** Once cured, test the system at low pressure initially, gradually increasing to operational levels. Check for any leaks.

8. Safety and Compliance

- **Follow Safety Guidelines:** Always use safety equipment like gloves and glasses when handling solvents.
- **Compliance:** Ensure that your installation complies with local plumbing codes and standards.

9. Additional Tips

- **Temperature Considerations:** Be aware of temperature conditions as they can affect the curing time of the solvent.
- **Manufacturer's Instructions:** Always follow the manufacturer's instructions for both the valve and the solvent cement for best results.

By following these steps, you can successfully install PVC and CPVC slip solvent end ball valves onto PVC and CPVC pipes, ensuring a secure and leak-free connection.