



"QUALITY BY DESIGN"

## VALVE INSTALLATION INFORMATION

### RECOMMENDATIONS FOR INSTALLERS AND USERS:

Plastic piping systems should be engineered, installed, operated and maintained in accordance with accepted standards and procedures for plastic piping systems. **PRIOR TO ASSEMBLY**, all piping components should be **PRE-FIT** to assure compatibility of the mating components. **DO NOT** use any components which do not fit or mate up properly; contact the appropriate component manufacturer for assistance.

**It is absolutely necessary that all design, installation, operation and maintenance personnel be trained in the proper handling and installation requirements and precautions of plastic piping systems before starting.** Incorrect procedures may produce unsound connections. Care must be taken to prevent the solvent cement or primer from coming in contact with internal components, e.g., ball, cup, wedge, teflon seats, etc. Read and follow all safety precautions as recommended by solvent cement and primer manufacturer. Dura Plastic Products, Inc. recommends the use of a quality grade thread sealant. Choice of either teflon tape, paste or other pipe joint compounds is at the discretion of the installer. The manufacturer's literature for these products should be reviewed for proper selection and application procedures. **WARNING: Some pipe joint compounds or Teflon pastes may contain substances that could cause stress cracking to plastics.**

When making up threaded connections to the valve, care must be taken to avoid overtightening threaded connections which may cause damage to both pipe and fittings. Generally, **one to two turns beyond finger tight** is all that is required to make a sound plastic threaded connection. **WARNING: An excessive buildup of Teflon tape can cause an over-stressed condition.**

--NOTE--

When installing a threaded end connector, the use of two strap wrenches is suggested to keep the end connector from backing out of the threads, thus breaking the seal. It is important that the union nuts are not used to put the system together. Pipe must be cut and installed in such a manner as to avoid all stress loads associated with bending, pulling or shifting. The system should be designed and installed so as to not pull on the valve in any direction.

**BEFORE THE VALVE IS CYCLED**, all dirt, sand, grit or other material should be flushed from the system. This is to prevent scarring of internal components, e.g., ball, cup, wedge, teflon seats, etc.

Dura Plastic Products, Inc. **DOES NOT RECOMMEND** the use of thermoplastic piping products for systems **TO TRANSPORT OR STORE COMPRESSED AIR OR GASES**, or the **TESTING** of thermoplastic piping systems with **COMPRESSED AIR OR GASES IN ABOVE AND BELOW GROUND LOCATIONS**. The use of our product in exposed, compressed air or gas systems automatically voids our warranty for such products, and its use against our recommendation is entirely the responsibility and liability of the installer. Dura Plastics will not accept responsibility for damage or impairment of its products or other consequential or incidental damages caused by misapplication, incorrect assembly, and/or exposure to harmful substances or conditions.

**DO NOT TEST OR USE WITH COMPRESSED AIR OR GAS.**

# VALVE INSTALLATION INFORMATION

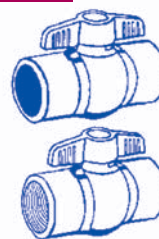
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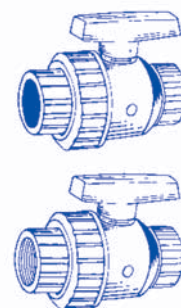
## COMPACT BALL VALVE

Before installation, make sure the valve is in the "open" position and all cemented or threaded surfaces are clean and dry. Install the valve following established solvent cementing or threading procedures. A suitable support should be placed under the valve body to hold the weight of the valve. When solvent cementing, be sure to adhere to proper cure times, and wipe off any excess cement that might have accumulated at joint bead.



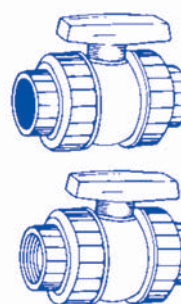
## SINGLE UNION BALL VALVE

Before installation, make sure the valve is in the "open" position and all cemented or threaded surfaces are clean and dry. Install the valve following established solvent cementing or threading procedures. A suitable support should be placed under the valve body to hold the weight of the valve. When solvent cementing, be sure to adhere to proper cure times, and wipe off any excess cement that might have accumulated at joint bead. **When the system is being pressure tested, if leaks are found at the valve in an open or closed position, a 1/4 turn on the union nut with a strap wrench can be added to stop the leak.**



## TRUE UNION BALL VALVE

Remove the union nuts and end connectors from the valve body. Slide one union nut over the end of the pipe on which the valve is being installed. Solvent cement or thread one end connector to this same pipe. After making sure that the end connector is at a square 90 degree angle to the pipe, open the valve completely and attach the valve body to the end connector via the union nut. Tighten this union nut "**handtight**" only. A mild soap and water solution, applied on the body threads, is suggested to help this procedure. A suitable support should be placed under the valve body at this time to hold the weight of the valve. Repeat these procedures to attach the opposite side of the valve making sure that the end connector makes contact with the face of the valve body. **When the system is being pressure tested, if leaks are found at the valve in an open or closed position, a 1/4 turn on the union nut with a strap wrench can be added to stop the leak.**



The information contained herein is based on the best available data at the time of printing. For verification of data, please contact Dura Plastic Products, Inc. Due to variations in methods, conditions, and equipment used in application of these products, no warranties, express or implied, or guarantees of suitability for a particular application are made by Dura Plastic Products, Inc. Full scale testing and end product performance are the responsibility of the user, designer, and engineer.