

# INSTALLATION, MAINTENANCE AND OPERATING INSTRUCTIONS

## SERIES “LMBV” – Lateral Reducing Ball Valve

(Patent Pending)

Refer to enclosed MBV Installation and Maintenance Sheet for Ball Valve related information.

The LMBV product consists of an adapter and an MBV with only one NPT and one socket union end. The adapter has the same outside diameter as pipe, and is designed to be solvent cemented (PVC, CPVC) or heat-fused (Polypropylene, PVDF) into a schedule 80 socket fitting, usually a tee. The other end of the valve (the NPT or socket union end) is connected to the piping system as usual.

### Important – Before Installing

True Blue ball valves will open and close when properly installed and used within the recommended ranges of pressure, temperature, and chemical compatibility. The ultimate determination of material compatibility is previous successful use in the same application. Refer to the Catalog Data Sheet or call Technical Support for information about your application.

**CAUTION:** Plastic materials degrade in ultraviolet (UV) light or sunlight.

### INSTALLATION:

1. The adapter has been shipped disassembled from the LMBV intentionally.

#### PVC and CPVC Adapters:

The adapter must be solvent cemented into a socket fitting *without* the MBV attached. This will prevent solvent cement and primer from dripping/running into the valve. During the cementing process, keep primer and cement from filling the dimple or the internal surfaces of the adapter. If possible, position the fitting vertically; this will minimize the chance of primer/cement from running inside the adapter.

#### Polypropylene and PVDF Adapters:

The adapter can be mounted to the ball valve before heat fusion to aid in alignment/gripping during the heat fusion process. Perform step #5, then proceed to step #2.

2. There is a small diameter dimple drilled into the face of the adapter. The dimple determines the final orientation of the MBV handle. Following proper solvent cementing/heat fusion procedures, install the adapter into the socket fitting so the dimple on the adapter is in the desired final location of the ball valve handle.
3. For PVC and CPVC, let the solvent cement joint dry for 24 hours (per proper procedures) to attain full strength.
4. Close ball valve so that the handle is perpendicular to the valve/pipe centerline.
5. With the valve in the *closed* position, thread the ball valve into the adapter by gripping the union nut on the opposite side. Both the union nut and the adapter will be threading into the valve body during this process. The valve is in the closed position during this process to ensure that the ball remains centered. Tighten the union nut completely. The handle should align with the dimple on the adapter when finished. Please note that some ball valve bodies are not symmetrical. The handle will only line-up over the dimple with the proper end of the body installed. If the handle does not line-up with the dimple, simply remove the union nut and reverse the position of the body.

### MAINTENANCE:

Plast-O-Matic recommends keeping a spare seal kit available for repairs. Seal life will vary in applications due to cycles, temperatures, pressures, chemicals, and concentration. Based on the application, a periodic inspection and maintenance plan should be established. The seal kit part number is “SK” plus the model number.



Please also refer to the enclosed MBV Installation and Maintenance Sheet for Ball Valve related information.



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