Operating Instruction

Ball Valves M1 PVC-U, PP and PVDF

1. Installation instruction

a. Flange connection
   1. Slide flange on pipe
   2. Mount flange socket onto pipe (cement)
   3. Insert ball valve with flanges into pipeline (**caution:** an arrow on valve body shows the recommended flow direction)
   4. Connect flanges with proper bolts (make sure that flange gasket sits in proper location)

b. Tread, Solvent, Fusion socket
   1. Dismantle union nuts and slide them on pipe
   2. Mount sockets on pipe (screw or cement)
   3. Insert Ball valve between premounted sockets (**caution:** an arrow on valve body shows the recommended flow direction)
   4. **Hand tighten** union nuts (make sure that o-rings are in proper location)

Note

In order to release the ball valves from overlapping stresses and not to apply operating forces to the pipeline it is recommended to mount pipe right next to the valve onto the wall (fix-point-mounting).
Furthermore the valves and pipes should be aligning.
Solvent cement in according to DVS guidelines DVS 2204 Part 5 for PVC.
Only approved welder are allowed to perform plastic welding in accordance to DVS guidelines 2207 Part 11 for PP and DVS 2207 Part 15 for PVDF.
Pipe installations have to performed in accordance with DVS 2210, Part 1

2. Operation

The valves are factory tested for leakage.
A pressure test to PED has to be performed before start up and documented.
The test pressure will be calculated with the lowest nominal pressure by pressure testing device.
After the pressure check of the whole piping-system, you have to redraw all union nuts in unpressurized system.

Please follow the operating instruction of the manufacturer during putting the actuator into service. The initial operation has to be done by a qualified expert.

3. Current use

The rated published pressure and temperature limits have to be obeyed – for details visit our website (www.praherplastics.com).
Pressure and temperature relate to media which PP and PVDF are inert. In case of uncertainty please look it up in a chemical resistance list.
The ball valve is not suited for media with solids. Additionally the ball valve is neither tested nor approved for usage in gas systems.

4. Service

- Use only Silicone- or Polyclycol based lubricants for EPDM gaskets
- Change gaskets in case of leakage

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5. Dismantling instruction

Caution: Do not dismantle pressurized system.

a) Flange Connection
   1. Drain pipeline
   2. Loosen flange bolts
   3. Take valve out of system and do not misplace gaskets

b) Thread, Solvent, Fusion socket
   1. Drain pipeline
   2. Loosen union nuts
   3. Take valve out of system and do not misplace gaskets

6. Caution

- Do not loosen bolts or screws in a pressurized system
- Drain systems before dismantling
- Never put the actuator in service when the valve isn´t installed.

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