Our team at IPEX is excited to continue the growth of the AquaRise® Potable Water Systems product line with the addition of the **One-Piece Ball Valve**

True Union Ball Valve One-Piece Ball Valve **(NEW)**

Frequently Asked Questions

What are AquaRise® One-Piece Ball Valves used for?

AquaRise One-Piece Ball Valves (OPBVs) are a light, compact and strong solution for on/off or isolation functions in AquaRise systems.

What size valves are available?

Today, AquaRise OPBV's are available in ½", ¾" and 1" sizes. Larger valve sizes are still under development.

What pressure and temperature ratings do our OPBVs meet?

AquaRise OPBVs are rated to the full pressure rating of AquaRise pipe, 400 psi at 73°F (23°C) and 150 psi at 160° F (71°C), and are certified to CSA B137.6 and ASTM F1970.

Why use the One-Piece Ball Valve over the True Union Ball Valve (and vice versa)?

AquaRise OPBVs have a simple one-piece body with integral end connections. The valves are light, compact and have a higher pressure rating than AquaRise True Union Ball Valves (TUBVs). They are the smarter valve option for projects that do not require a serviceable connection, or for installations that require higher than normal pressures.

However, if a system requires serviceable connections, our TUBVs are still available in ½" to 2" with sizes up to 4" coming soon. True union connections allow for easy valve removal, serviceability, and replacement without having to cut the pipe. Both types of valves use specially selected EPDM O-ring seals for performance in potable water where a variety of treatment chemicals may be used.

What makes our OPBVs unique?

OPBVs are manufactured using spin welding, a friction welding technique. When the end connectors are spun against the valve body, the rotational friction generates heat and melts the parts together at the interface. The spin-welded assembly creates a one-piece valve with no weak points, making these valves as strong as any other AquaRise fitting. Applying spin-welding technology to valves is a global first for Aliaxis!

What do I need to know before installing the new One-Piece Ball Valve?

Solvent weld AquaRise One-Piece Ball Valves using the standard solvent welding procedure outlined in the AquaRise Technical Manual found at ipexaquarise.com.

<u>To avoid damage to the valves, follow these important steps during installation:</u>

a. Always ensure the valve handle is in the open position. Never install valves with the handle in the closed position as this exposes the ball to dirt, solvent cement, and possible damage.

b. Always ensure AquaRise valves are properly supported during the solvent welding procedure. The weight of an unsupported valve may cause unwanted stress on new solvent cement joints.

c. Solvent weld pipe to valve ends

   IPEX recommends that the valve be solvent welded horizontally before installing the assembly in the final vertical or horizontal position to avoid solvent cement from contacting the ball and interfering with the valve function.

NOTE: Solvent cement shall only be in contact with the fitting socket and pipe. DO NOT use excessive cement as it may puddle inside the valve and interfere with the PTFE valve seat or the ball inside the valve. Solvent cement will damage these components and prevent proper sealing. Discard any valve that has solvent cement on these components.

NOTE: For vertical installations, take extra care not to use excessive solvent cement.

NOTE: The manufacturer is not responsible for damages or poor performance due to the improper installation, improper use, or modifications made to the valve.

DISMANTLING: The One-Piece Ball Valve cannot be serviced, and must be replaced as required.

IPEX by aliaxis AquaRISE® POTABLE WATER PIPING SYSTEMS