

ARV2

Ball Check Valve

Recommended Installation Practices

Vertical installation

The proper valve installation is with the flow direction from the bottom up. The flow arrow on the body indicates the direction of flow. A minimum of 1 psi is necessary to move the ball off of the seat. With no positive stream pressure, the ball will seat against back flow by gravity. *(If the desired direction of flow is from the top down, a standard ball will not allow the valve to check against back flow with fluid pressure being exerted from the bottom. Contact your local Flowserve Representative for assistance).*

Horizontal installation

The Atomac ARV2 ball check valve will function properly in a horizontal application when installed correctly. First, ensure the pipe line is relatively level. The ball should not be restricted from checking by the pull of gravity.

The ball will check properly when exposed to back flow conditions. However, in the horizontal position, the media must be liquid to provide adequate force to seat. *(When installed horizontally the valve may not provide adequate back flow protection in a gas service).*

Installation precautions

Do not install a ball check valve directly to the inlet or discharge side of a pump. Due to the flow characteristics introduced by the vortices produced by a running pump, allow approximately 10 pipe diameters installation distance from the pump.

When installing this fully lined product into fully lined pipe, a pipe flange gasket is not necessary. The valve body to lined flange fitting is self gasketing. However, if installing into a metallic piping system, a separate flange gasket is recommended to prevent putting flange serrations into the valve gasket surface.

The flange connection torques that should be used are those published by the lined pipe supplier. Install the fasteners using the crisscross method to ensure proper loading of the gasket connection. Improper torque loading or over torque loading may damage both the valve gasket connection as well as the flange gasket connection.