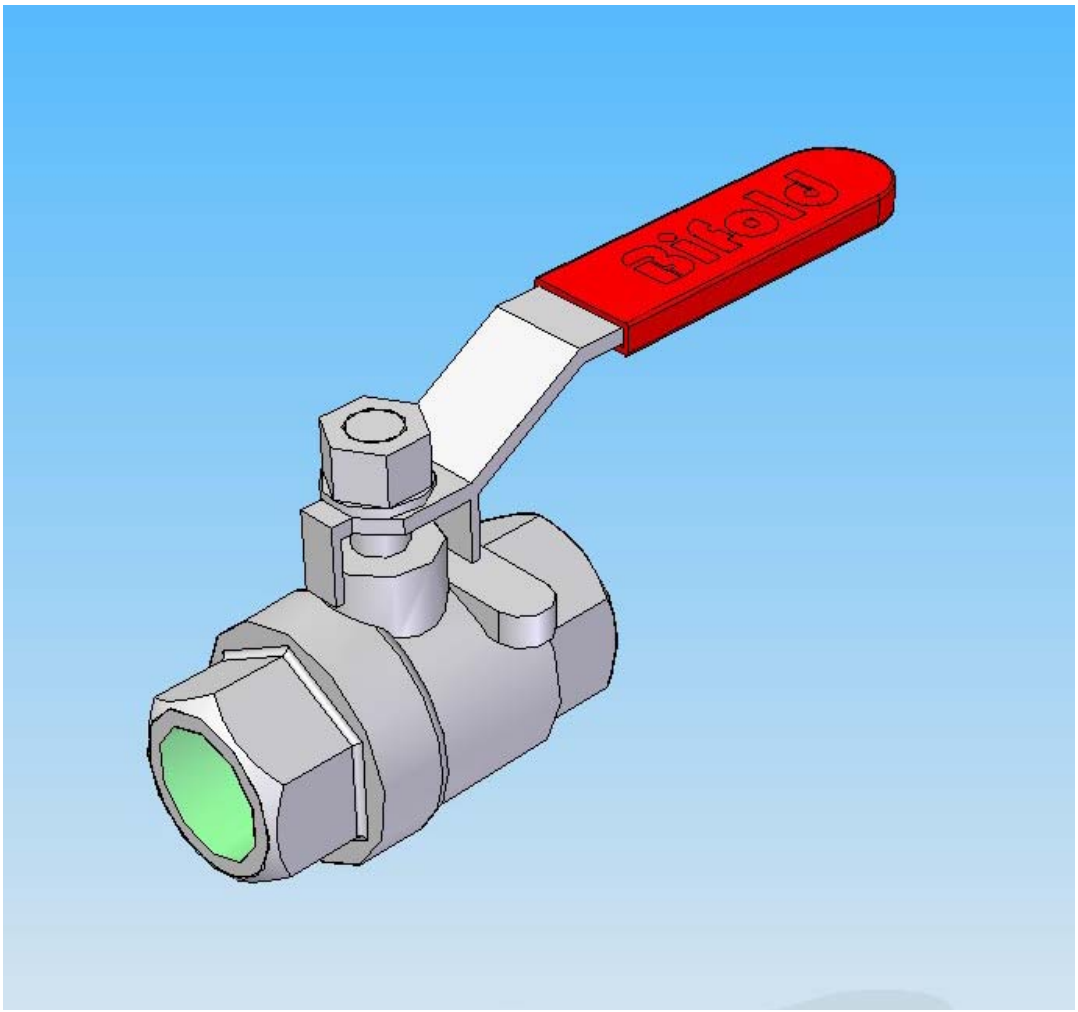
Directional Control Valves for Hazardous and Corrosive Environments.

OPERATING INSTALLATION AND MAINTENANCE INSTRUCTIONS



Single Isolate Ball Valve,1 Piece
Valve Range BV01

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1.0 GENERAL

This procedure covers the operation and maintenance instructions for single isolation ball valves.
The valve is of single piece construction with female threaded inlet and outlet connections.
The Valve is Bi-directional allowing isolation of pressure from either upstream or downstream of the Valve.

2.0 INSTALLATION & REMOVAL

The Inlet and outlet ports are female threaded type, to accept male threaded pipe connections, or instruments with threaded male connections.

When installing this product, if supplied with taper thread connections, suitable thread sealant should be used in conjunction with the tube fittings. Thread tape or similar should not be used.

Ensure only fittings of the correct size type and pressure rating are used when installing the valve. This is essential, to ensure integrity of the joint.

When making up threaded connections, ensure the correct sized spanner is used on the flats provided on the valve.
Care must be taken when making up threaded connections, to tighten the fittings only enough to produce a leak tight seal. Using excessive force when tightening the fittings may cause damage to the valve seats in some instances, rendering the valve useless.
If fittings are to be used that require a specific orientation when fitted i.e. elbows, it is recommended that the fittings be installed only hand tight at first, and then tightened up to the desired orientation once the valve is installed in the required location. This should prevent the fittings being over tightened.

It is recommended that all piping is thoroughly cleaned prior to the valve being installed.

Precautions must be taken to avoid the ingress of dirt when a valve is installed and removed from a system. Foreign matter i.e., metal swarf, debris etc, entering the valve may cause damage to the valve seats, resulting in a reduction or loss of sealing performance.

Always ensure pressure is fully bled from the pipeline before attempting to remove the valve from the system.

3.0 OPERATION

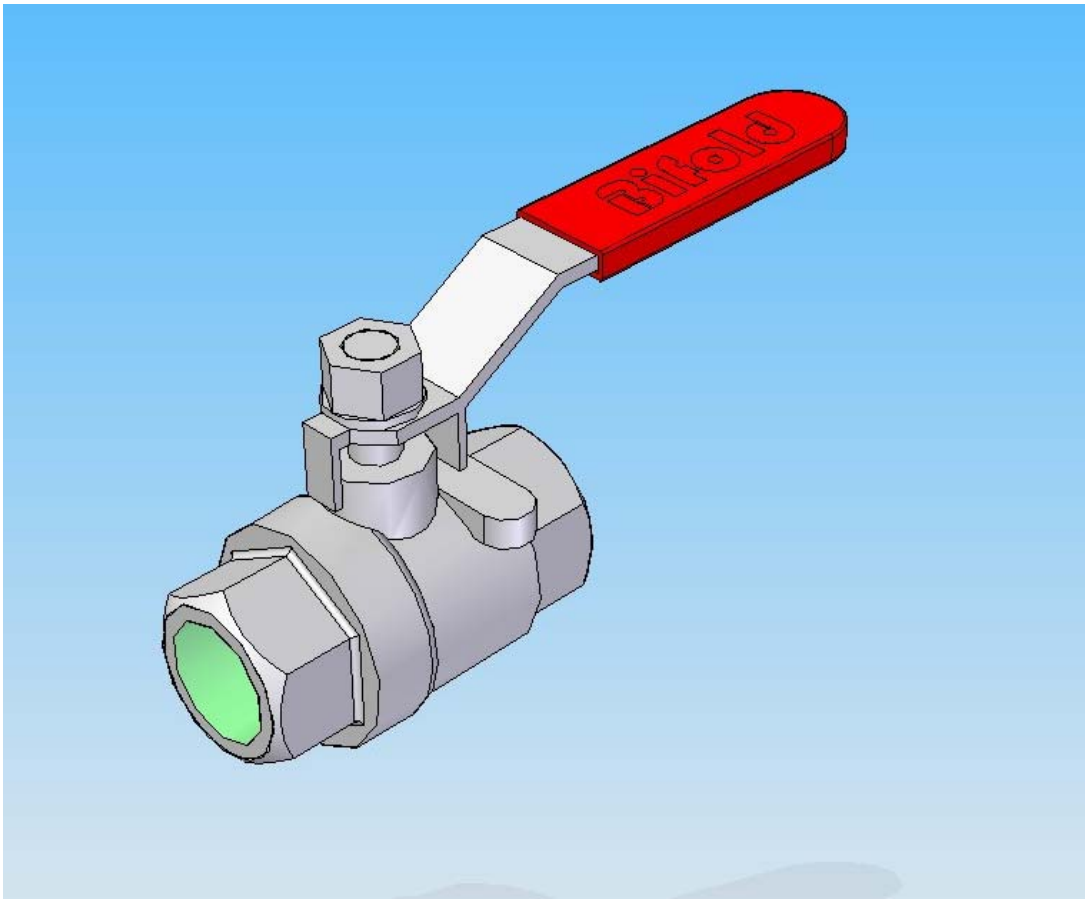
Valves are supplied tested at 1.5 times the maximum working pressure stated on the valve. Do not exceed the maximum working pressure under normal operating conditions.

During operation it is essential that the isolation ball valve is left in either the FULLY Open or FULLY Closed positions. These valves are intended for isolation purposes only. Attempting to use the ball valves as a means of flow control, or leaving the ball valves in a partially open position, will result in permanent damage to the valve seats and failure of sealing performance.

The valve is opened and closed by rotating the ball valve handle either clockwise or counter clockwise. The handle position indicates the open-closed condition of the valve:

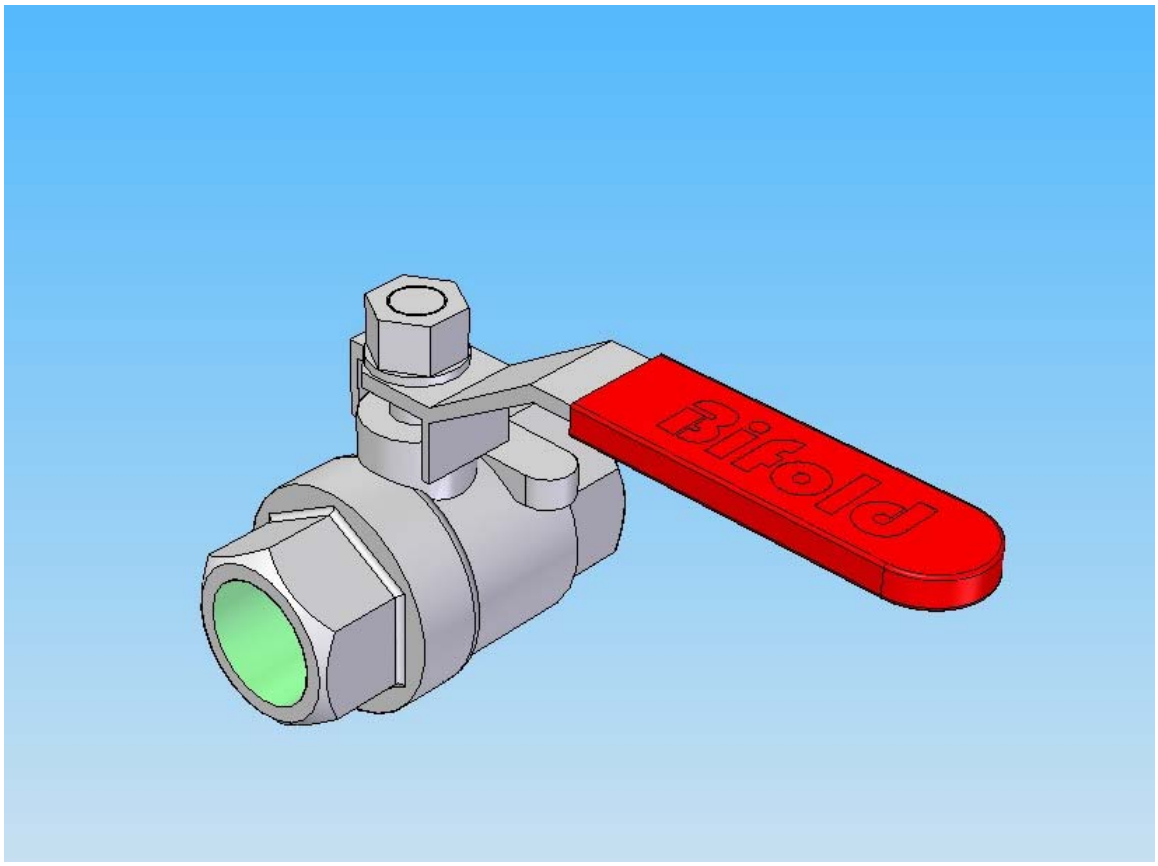
With the handle **in-line** with the valve body / direction of flow, the valve is in the **Open** position, allowing flow through the valve.

To **Close** the ball valve rotate the handle **clockwise.**



With the handle **Perpendicular** to (across) the valve body / direction of flow, the valve is in the **Closed** position, blocking flow through the valve.

To **Open** the ball valve rotate the handle **counter clockwise.**



4.0 MAINTENANCE

No maintenance is required for this valve range.
Due to the nature of the design, it is not recommended that these types of valve be disassembled. If problems are encountered the entire valve should be replaced.