Installing a MOGAS Valve

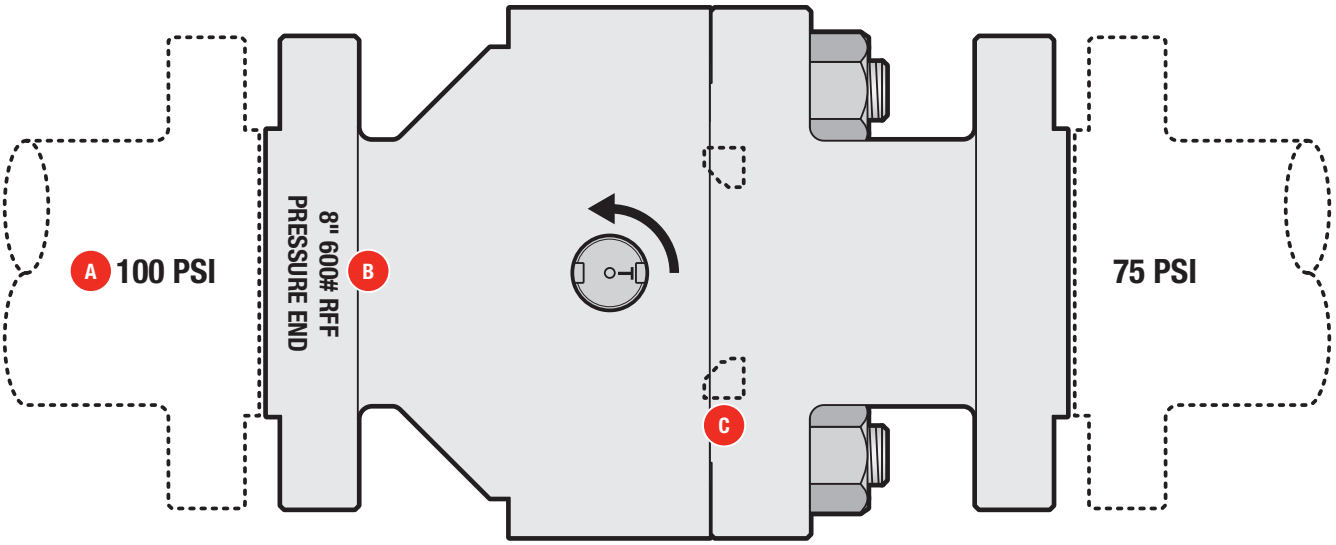
Quick Reference Guide

Storage

MOGAS valves are shipped prepared for storage up to six months. For long term storage, adequate protection should be provided for the valve, including spraying the internal parts with a rust preventative as applicable.

Typical MOGAS Valve Orientation (top view)

Note: *This illustration applies to all MOGAS valve end connections.*



Notes

A *When valve is in **closed** position, **higher pressure** should be on this side.*

B ***Pressure End*** *is stamped on flange in this location.*

C *Preferred sealing seat is located **opposite** the marked pressure end.*

Service Contact

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For a more comprehensive Installation, Operation and Maintenance manual, visit us online at www.mogas.com.

MOGAS®
SEVERE SERVICE BALL VALVES

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1 Verify Operating Position

Open and close the valve to ensure the ball position is identified and matches the operator position indicators.

Note: *If the valve does not have an operator installed, you **must install** the appropriate operator to open and close the valve prior to valve installation.*

*If the valve assembly includes a mounted actuator, the actuator **must not** be re-oriented without **removal** from the valve. This prevents 180 degree rotation of the ball and assures the mate-lapped ball and seat surfaces match.*

2 Identify Sealing Direction

The preferred direction of flow is from the **higher to lower** pressure end, when the valve is **closed**. For normal installation, the valve should be installed with the **marked Pressure End** positioned toward the **higher pressure** against the valve when in the **closed** position.

However, in certain conditions, proper operation may require the sealing seat be positioned **opposite** the flow direction. For these circumstances, the valve should be installed with the **marked Pressure End** positioned toward the **lower pressure** against the valve when in the **closed** position.

3 Position Valve in Piping

Verify that the valve and operator **orientation** is correct. Verify that the valve is in the **open** position to prevent any damage to the ball surface from debris or weld splatter.

Note: *Any "spring return to close" actuator must be pressurized or manually opened as required to keep the valve open during welding.*

Position the valve in line with mating piping or flanges.

Note: *Support or lift as required, using lifting lugs or nylon straps around the valve body. Do not lift or support by the actuator alone.*

4 Secure Valve in Place

Flanged

Install the flange gaskets and bolting. Tighten per ANSI, ASME or API torque requirements.

Proceed to **Step 6**—Verify Operation.

Welded

Note: *Use the welding ground strap on the same end of the valve as welding to prevent current flow through valve.*

Caution: *Current flow through valve can damage the ball or seat coating and cause valve leakage.*

Weld the valve in-line using ASME Section IX approved weld procedures. Weld the circumference of the weld evenly to minimize distortion.

The temperature of the main body section of the valve should not exceed the rated valve temperature. Actuator temperature should not exceed 250 F (121 C). Cool the valve or actuator as required.

5 Post-Weld Stress Relief

Preheat and post-weld stress relief should be carried out per ASME VIII, or ANSI B31.1, and ANSI B31.3.

Heat input to the valve during stress relief is to be minimized and monitored. The temperature of the main body section of the valve should not exceed the rated valve temperature. Actuator temperature should not exceed 250 F (121 C).

Place the heating coils as close to weld as possible and keep the valve surfaces clear to allow maximum heat dissipation from the valve.

6 Verify Operation

Inspect the condition of the valve and operator for proper orientation and alignment.

Open and close the valve several times to ensure smooth operation, noting any differences between before and after installation.

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