



The quality name



INSTALLATION AND MAINTENANCE MANUAL

FOR

FORGED STEEL GATE VALVES

MODEL#: G-800R

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Product Description

Our forged steel gate valve is a bolted bonnet threaded ends gate valve. The hard faced wedge and seat ring make a full contact to provide effective seal. This is an outside screw & yoke (OS & Y) and rising stem type valve with a back seat to avoid leakage through the gland.

Some of highlighted features of this valve are:

- Stellite hard faced wedge ensure valve's durability
- Sturdy design for high pressure and temperature service
- Very little pressure drop
- Less obstruction to process flow

General Application

These valves are designed for oil and gas industry applications. Please verify the application within the limits specified on valve body or attached name plate. Always consult factory for more details.

Storage Instructions

1. Keep the valve wrapped and end protection on until it is not ready for installation. This will reduce the possibility of foreign material damaging internal valve components.
2. Apply anti rust grease or paint to the external surface exposed to atmosphere.
3. Do not store the valve outdoors.

Installation Instructions

1. Remove the protective covering from the screwed ends and remove any anti rust grease applied to the valve parts by using the solvent.
2. The internal parts of the valve have to be inspected to make sure there is no debris or foreign material in the valve body.
3. Clean the pipe ends and make sure they are free from debris also.
4. Install the valve according to the flow direction on the valve body and make sure the valve comply with flow plan of the pipeline.



Maintenance Instructions

Inspect periodically all the critical parts such as:-

- Stem
- Gland and Gland Packing
- Body and bonnet connection
- End connection

If the process fluid is leaking through the gland packing, tighten the gland nuts evenly until the leak stops. If leakage continues or gland nuts cannot be turned further, replace the gland packing.

Gland Packing Replacement: Remove both gland nuts and lift gland flange and gland up. Remove gland packing with the appropriate tools and insert the packing. Push the gland down and reassemble gland flange.

If the valve is leaking from body bonnet joint then you must need to replace the spiral wound body gasket.

Body Bonnet Gasket Replacement: Remove any pressure from the line by shutting down the supply. Open the valve completely before starting dismantling the valve. Unscrew four bolts to remove bonnet with complete top assembly from body. Remove the old gasket and insert the new one. Reassemble the bonnet back on body making sure that wedge is going properly between the seat rings. Tighten the bolts back with a wrench.

Note: If the valve is not functional due to any other reason except the leakage, please consult factory or replace the valve.

Operational Instructions

This is a manual valve and operated by a hand wheel. Turning the hand wheel clockwise will shut the valve off and anti-clockwise movement will open the valve.

Before the valve is put into operation, drain the pipeline to eliminate any foreign material on or condensed fluid deposits in the valve body.

Always operate the valve properly and make sure to close the valve tightly.



The operator must wear protective devices such as safety glasses, hard helmet, gloves, clothes and shoes.

Precautions

- Make sure the valve's material of construction is compatible with the fluids being handled.
- Pressures and temperatures must be kept within the limits specified by appropriate ANSI or other valve standards
- The valve must be installed with the arrow pointing in the correct direction.
- It is end user's or the contractor's responsibility to determine that the valve is appropriate for the intended application.
- Care should be taken in handling the valve. Mishandling may cause damage of the sealing components or damage to the externals.