



GG VALVES

SINCE 1943

Guidelines for **CUSTOMERS**

CONTACT US

E-262, Mewar Industrial Area Madri, Chamber

Marg, Udaipur-313003. (Raj) INDIA

Tel: +91-294-2490223, +91-294-2491423

Fax: +91-294-2491954

Email: info@ggvalves.com



TOPICS

1. Transportation & storage

2. Installation

3. Operation & Periodic Inspection

4. Normal Wear & Tear, Maintenance

5. Troubleshooting

6. Limitations





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Transportation & Storage

Transportation

- ❑ Keep off the valves lifting area to prevent any injury.
- ❑ For painted valves, care to be taken not to damage painting surfaces of valves during transportation and handling, which may subsequently cause corrosion & rust.
- ❑ Use proper pallets and trolleys to move the valves between places.





Transportation & Storage

Storage

Dont's

- ❑ Do not store valves in a corrosive environment, which may cause corrosion.
- ❑ Do not remove protective covers until installation.
- ❑ Do not over stack valve packages.
- ❑ Do not pile up valves for storage. Unstable piling may damage the valve or cause personal injury.

Do's

- ❑ Store Valves in a dust-free, low humidity and well ventilated place. Indoor Storage is recommended.
- ❑ Packed Valves should be placed on racks for Storage.
- ❑ If valves are to be stored outdoors, take appropriate measures to prevent valves from direct exposure to dust, rain and sunlight.



Transportation & Storage

Protective Covers (Ends cap) should be removed just before the installation of valve.



Racks for Valve Boxes.





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Installation

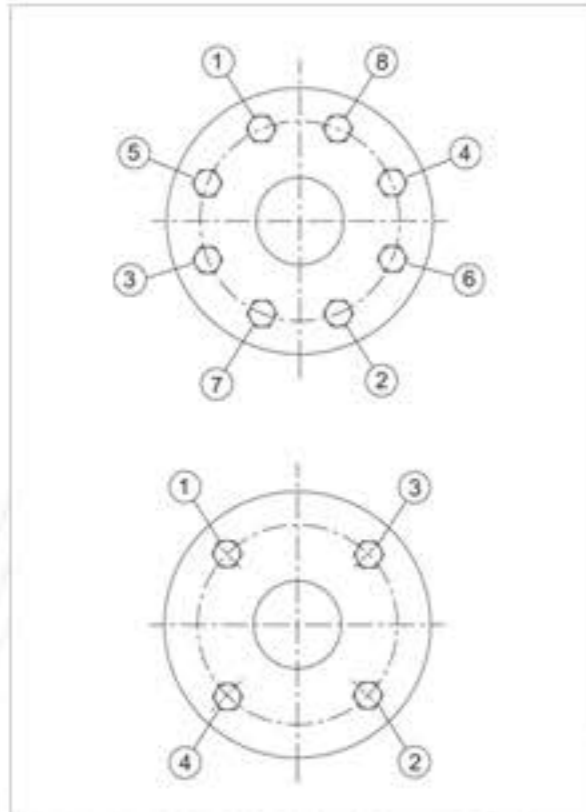
- ❑ Valves should be installed in the weather conditions as per valve specification.
- ❑ Valve axis should be in line with companion flanges.
- ❑ Make sure that the pipes are aligned accurately. The length between the pipe flanges should correspond with valve face to face dimensions including flange gaskets.
- ❑ Valves must be in fully closed position during installation to avoid contamination & damage to critical parts.
- ❑ Use Hex bolts and nuts to secure valve to flanges.
- ❑ Ensure proper gaskets are used between the valve flange & pipe.
- ❑ Tighten bolts & nuts in alternating opposite sides until completely tightened.



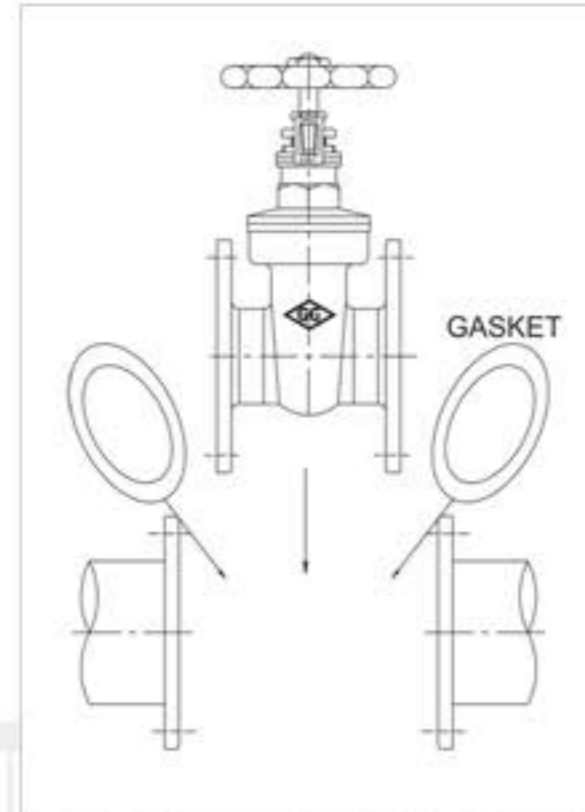


Installation

Bolt Tightening sequence during mounting



Valve axis should be in line with the companion flanges & gaskets should be properly aligned between the flanges





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Operation & Periodic Inspection

Operation

Turn the handwheel closewise to close & anticlock wise to open the Gate & Globe Valves.

- ❑ Close valves gradually to prevent water hammer.
- ❑ Apply suitable torque to handwheel. Operating torque depends upon the size and type of valves.
- ❑ Do not loosen Gland of pressurised valves. For working on the Gland, please refer our TA no. TA/008/2016 for detailed instruction.
- ❑ Do not keep the Gate valves in intermediate position, it may result in damage of seats.
- ❑ For Ball valves, turn the lever 90° to Open or Close the valves as per indication.





Operation & Periodic Inspection

Periodic Inspection

Following are the parameters which should be checked regularly for the valves under Operation.

Items to be inspected	Area	Inspection Method
Leakage	Gland area	Visual check
	Flanged area	Visual check
	Threaded area	Visual check
	Body surface	Visual check
Abnormal Noises	Valve body	Auditory check
	Loosened bolts	Auditory check
Seat Leakage	Outlet of valves	Visual check
Valve Operation	Operating position	Visual check
	Unsmooth operation	Operational check



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Normal Wear & Tear, Maintenance

- ❑ Installed valves should be regularly checked for any leakage.
- ❑ Check leakage through Gland Nut & if Gland Nut found loose then must be tightened.
- ❑ Identify defective components, if any, then contact us for replacement parts.
- ❑ Check gaskets/ 'O' rings for flanged valve between the companion flanges, replace if worn-out.
- ❑ Examine valve discs to ascertain the extent of any damage.





Troubleshooting

Trouble	Possible Cause	Recommended remedial measures
Leakage	Gate/ Seat Leak	Tighten the Handwheel
	Through Gland	Tighten the Gland nut
Loose Burr	Inside the Valve Body	Before use, clean the valve with pressurized air
Rust spot/ Oxidation	On the Valve Surface	Scrub with emery paper
Transit damage	Any component	Contact us
Hard Operation (For 125 to 250mm size valves)		Loosen Gland nut to adjust spindle movement

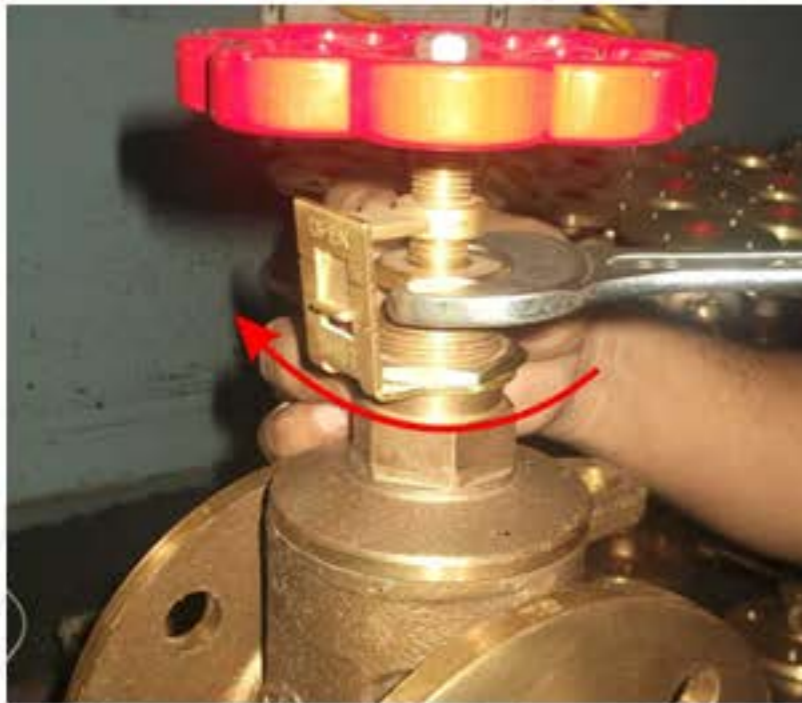




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Troubleshooting

Tightening the Gland Nut in Clockwise Direction (For Gland leakage)



Tightening the Handwheel in Clockwise Direction (for Seat leakage)





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Limitations

- These valves are meant to be mounted in horizontal position. For best results, avoid the valves mounting in vertical or any other inclined position.
- These valves are intended to use for Transformer Oil/ Liquid/ Water. Do not use these valves for acidic use.
- We have various types of valves with various MOC for specific applications, ensure proper application from us to install valves.

