

MUELLER®

Double-Disc Gate Valves

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⚠ WARNING:

1. Read and follow instructions carefully. Proper training and periodic review regarding the use of this equipment is essential to prevent possible serious injury and/or property damage. The instructions contained herein were developed for using this equipment on fittings manufactured by Mueller Co. only, and may not be applicable for any other use.
2. Do not exceed the pressure ratings of any components or equipment. Exceeding the rated pressure may result in serious injury and/or property damage.
3. Safety goggles and other appropriate protective gear should be used. Failure to do so could result in serious injury.

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Double-Disc Gate Valves

General Information / Inspection and Storage

GENERAL INFORMATION

Mueller® Double-Disc Gate Valves are intended for use in potable water distribution or fire protection systems. The following is designed to assure that you have received a working valve, that the valve is stored and handled properly, and that after installation, the valve will work satisfactorily.

The AWWA C-500 Water Works Gate Valve Standard requires working pressure ratings be established:

For 14" valves and larger at 150 psig water working pressure – 300 psig test pressure.

One or more of the following publications may be applicable to the installation or testing of the valve:

1. AWWA C-500 Gate Valves 14" through 36" Nominal Pipe Size.

2. AWWA C-600 Installation of Ductile Iron Water Mains and Main Appurtenances.

3. All installation, operation and maintenance instructions issued by the manufacturer of the pipe and the valves.

4. Valve user guide as published by MSS.

5. AWWA Recommendation for Installation, Operation and Maintenance of Gate Valves.

6. NFPA-24 – Outside Pipeline Protection Equipment U/L.

INSPECTION AND STORAGE

Inspection On Delivery

1. When you first get the valve, check it for possible damage in shipment, conformance to specifications, opening direction, shortages, etc.
2. Carefully unload all valves – DO NOT drop valve or lift valve using gearing, bypass or other appendage as a hook.
3. Valve should be opened and then closed to make sure it works properly. Also check opening direction against the order instruction.
4. Any problems should be reported immediately to Trucker and noted on bill of lading, and signed by the driver on customer's copy.

Storage

1. Valves should be stored in a fully open position.
2. When possible, keep valves out of the weather.
3. In cold climates the inside of the valve must be kept drained of any water to prevent freezing.
4. When stored outside, valve stem should be in a vertical position, and whenever possible, valves should be covered with a water-proof covering.
5. Protect all parts of the valve at all times.
6. Protect rubber seat of resilient wedge valves from ozone and hydrocarbons (solvents, paints and oils, etc.).

Inspection Before Installation

1. Check to see the valve end-joints are clean.
2. Check valve for damage.
3. Open and close valve while it is in the intended installation orientation – make sure it works properly.
NOTE: Keep valve closed when placing in trench.
4. Inspect casting for damage.

Double-Disc Gate Valves

Installation and Testing

INSTALLATION

To Install, follow these simple instructions:

1. Handle valve carefully.
2. Prepare pipe ends in accordance with pipe manufacturers' instructions.
3. Install valve using appropriate instructions for the specified joint (flanged, mechanical joint, etc.).
4. Water main should be properly supported to avoid line stress on valve.
6. In buried applications, make sure that the valve box does not transmit traffic loads or other stress to the valve.
7. DO NOT use valves to force a pipeline into position.
8. DO NOT deflect any valve/pipe joint.

Testing

1. DO NOT backfill valves before hydrostatic system test. Leave the valves exposed while the pipeline is being pressurized. Check to see that all valve joints and pressure containing bolting, including bonnet bolts, are tight.
2. AWWA C-500 states that double-disc gate valves have an allowable leakage rate. This allowable leakage must be taken into consideration when hydrostatically testing the system.

3. Valves can be shell tested (but not operated) at two times the rated pressure of the valve.

4. After testing, steps should be taken to relieve any trapped pressure in body of valves.

Double Disc Gate Valves

	NON GEARED	BEVEL GEAR	SPUR GEAR
VALVE SIZE	# Turns to Open	# Turns to Open	# Turns to Open
16"	53	212	217.3
18"	59	236	241.9
20"	65	260	266.5
24"	77	308	315.7
30"	67	268	268
36"	80	320	320



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