

DOUBLE DISC GATE VALVES, 14" to 36"



1. Double disc gate valves (DDGV) shall meet or exceed all applicable requirements of the latest revision of ANSI/ AWWA C500 and certified to NSF 61. Valves shall be of the iron body, bronze mounted design.
2. 14" to 36" DDGV's shall have an AWWA 150 psig working pressure.
3. Valve type shall be NRS (non-rising stem) for all buried and above ground applications.
4. Valves shall have an arrow cast on the operating nut or hand wheel showing opening direction.
5. Valves shall have bolts and nuts for the stuffing box and bonnet with one of the following compositions:
 - a. Bolts: Steel, SAE J429 Grade 2, Nuts: Steel, ASTM A563 Grade A. Fasteners to be plated to ASTM F1941 Class Fe/Zn 12C (standard).
 - b. Type 304 stainless steel (optional).
 - c. Type 316 stainless steel (optional).
6. Valve stems shall be made of acceptable bronze material as required by AWWA C500. The structural design of the valve shall be such that if excessive torque is applied to the stem in the closing direction with the disc seated, failure of the pressure retaining parts shall not occur.
7. Valves shall have an o-ring sealed stuffing box. One o-ring shall be placed above and one o-ring below the stem thrust collar. The thrust collar shall be factory lubricated. The thrust collar and its lubrication shall be isolated by the o-rings from the waterway and from outside contamination, providing permanent lubrication for long term ease of operation. The o-ring above the thrust collar shall be replaceable under pressure, as long as the valve is in the fully opened position. Valves without at least two stem o-rings are also unacceptable.
8. The valve body, bonnet, and stuffing box shall be composed of ASTM A-126 Class B grey iron.
9. The valves shall have a wedging mechanism that utilizes a top wedge, a bottom wedge and two side spreaders, so the discs are wedged against the seats at four separate contact points near the outside edge of the discs. Valves that utilize a revolving disc or a wedging mechanism of less than four points are unacceptable.
10. The valves shall have the contact faces of the disc and seat ring made of ASTM B584 alloy C84400 or ASTM B62 alloy C83600 bronze.
11. Tapping valves shall have an inlet flange class 125 (ANSI B 16.1) for attaching to a sleeve or cross. A machined projection or raised face for accurately aligning on this valve shall mate with a machined recess in the tapping sleeve outlet flange in accordance with MSS-SP60. The seat opening of the tapping valves shall be larger than the nominal size to permit full diameter cuts.
12. The valves in sizes 14" to 36" valves shall be adaptable to optional features as deemed necessary. Optional features can include: spur gearing, bevel gearing, horizontal installation, by-pass valves, position indicators, rollers, tracks, scrapers, or a combination of features. The by-pass valves shall comply fully to AWWA C500 standards in design, location, and size.
13. The NRS valves shall be MUELLER® A-2380 series or approved equal.
14. The NRS tapping valves shall be MUELLER® T-2380 or approved equal.



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