

J & S Valve®



GATE VALVE

Metal Seated

Solid Wedge

Size: 2" - 12"

AWWA C500



METAL SEATED

SOLID WEDGE GATE VALVE

SERIES 3000

AWWA C509

2" OPERATING NUT OR HAND WHEEL

Ductile Iron

GLAND

Brass

STEM

Stainless Steel
(Other Materials,
Available)

BONNET

Ductile Iron

STEM NUT

Aluminum Bronze

DISC

Ductile Iron

SEAT RING

Bronze

PACKING

Graphite
Non Asbestos

THRUST COLLAR

Stainless Steel

GASKET

Stainless Steel

NUTS, BOLTS, WASHERS

Stainless Steel

BODY

Ductile Iron
with Bronze
Seat Ring

COATING:

NSF-61 2-Part
Epoxy Coating



IRON BODY, BRONZE MOUNTED

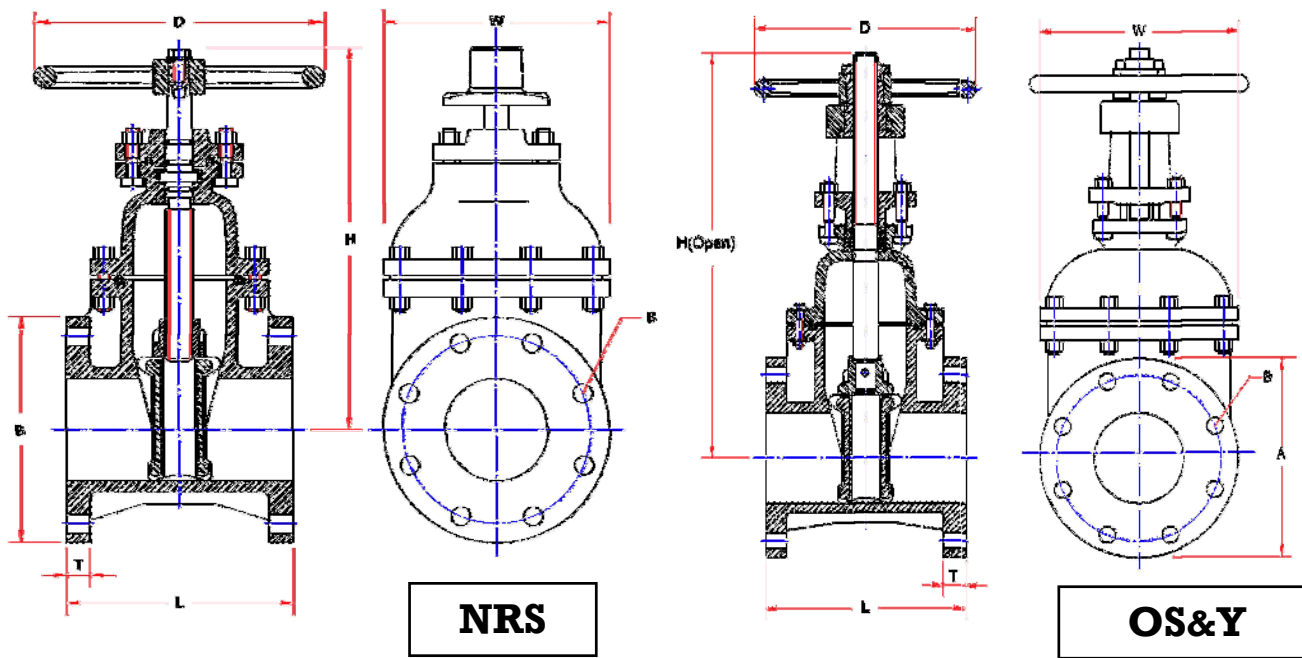
ANSI/NSF 61 - Certified by U/L



J & S Valve', Inc.

Design and Materials Subject to Change Without Notice. Call for Verification and Any Updated Drawings

INSTALLATION DIMENSIONS



DIMENSIONS SERIES 3800 NRS GATE VALVE:						
Size	Model	L	H	D	T (150)	T (250)
2"	3802	7"	12½"	7"	5/8"	7/8"
3"	3803	8"	13½"	7½"	3/4"	1 1/8"
4"	3804	9"	16½"	10"	1"	1 1/4"
6"	3806	10½"	21½"	12"	1"	1 1/2"
8"	3808	11½"	26½"	14"	1 1/8"	1 5/8"
10"	3810	13"	30"	16"	1 1/4"	1 7/8"
12"	3812	14"	33"	18"	1 1/4"	2"

See J&S Valve Publications or website for Size 14"-48", and 54" & Larger

DIMENSIONS SERIES 3700 OS&Y GATE VALVE:						
Size	Model	L	H (Open)	D	T (150)	T (250)
2"	3702	7"	16"	7"	5/8"	7/8"
3"	3703	8"	19"	7½"	3/4"	1 1/8"
4"	3704	9"	25"	10"	1"	1 1/4"
6"	3706	10½"	33"	12"	1"	1 1/2"
8"	3708	11½"	43½"	14"	1 1/8"	1 5/8"
10"	3710	13"	48"	16"	1 1/4"	1 7/8"
12"	3712	14"	54"	18"	1 1/4"	2"

See J&S Valve Publications or website for Size 14"-48", and 54" & Larger

J & S Valve - BENEFITING CUSTOMERS!

Our experience working on major waterworks projects throughout the world sets us apart from other companies. We offer a full range of waterworks valves for all types of waterworks projects. As knowledgeable experienced valve professionals; our staff simplifies the process of valve selection and valve purchasing.

Manufacturers/Suppliers play an important role in the success of designing and building projects. The experienced staff at J&S Valve has the technical valve expertise with waterworks projects; collaboration with us can ensure success. We offer quality valves at competitive prices. We are a women business enterprise that is certified nationally and regionally and can assist with meeting project diversity goals.



J & S Valve FACILITIES



J & S Valve, Inc.

QUALITY COMMITMENT



COMMITMENT TO QUALITY AND TECHNICAL ADVANCEMENT

J&S Valve is committed to providing the highest quality valves for longer service life and is recognized around the world for manufacturing the most robust valves on the market. Providing 100% testing, rather than random testing, sets J&S apart. All valves are tested in accordance to the American Water Works Standards. J&S Valve strives to provide superior customer service and to provide quality products at competitive prices. J&S is committed to complete customer satisfaction.



**J&S VALVE FLOW TESTING
LABORATORY**

GATE VALVE END CONNECTIONS



ACTUATION

BEVEL GEARS:



- 90° intersecting shaft applications provide highly efficient operation
- The Coniflex® tooth form extends operating life and offers smoother, quieter operation
- Spiral bevel gears handle higher speeds and greater torque loads more smoothly and quietly than ever before
- Hardened or unhardened teeth offer versatility
- Bevel gears provide the flexibility of 1-1/2:1 to 18:1 ratios
- Fusion bonded epoxy coated in accordance with AWWA C550

SPUR GEARS:



- Used in parallel shaft applications
- High load capacity
- Higher contact ratio provides a smoother, quieter operation
- Fusion bonded epoxy coated in accordance with AWWA C550

ELECTRIC ACTUATORS:



- Electric Actuators can be easily adapted to the valve allowing the valve to become integrated with the system while also allowing for remote operation. The actuators are built in accordance with AWWA Standard C542 for Electric Actuators and are equipped with thermal overloads, torque switches and limit switches to protect the actuator and valve. J&S Valve prefers to supply “smart” actuators which offer features that are ideal for the digital world.

METAL SEATED AWWA C500 GATE VALVE SPECIFICATION

SCOPE

- 1.1 This specification covers the design, manufacture, and testing of Metal Seated Gate Valves. 2-inch through 12-inch suitable for cold working pressures of 250 psi,

STANDARDS AND APPROVALS

- 2.1 Metal Seated Gate Valves are designed and manufactured in accordance with the America Water Works Association AWWA C500.
- 2.2 Metal Seated Gate Valves are tested in accordance with Testing Section 5.1 of American Water Works Association AWWA C500.

CONNECTIONS

- 3.1 Metal Seated Gate Valves shall be provided with flanged in accordance with ANSI B16.1, Class 125 iron flanges.

DESIGN

- 4.1 Valves are offered in non-rising stem and outside screw and yoke configurations.
- 4.2 Valve bodies, bonnets, discs and hand wheels are ductile iron. Accurately machined bronze seating rings that are secured in the valve bodies.
- 4.3 Valve are to be provided with the bronze seating rings, machined and scraped, if necessary, to seat truly flat against body seating rings.
- 4.4 Valve stems rotate freely in the valve bonnet recess.
- 4.5 Design of the stuffing box permits repacking underline pressure.
- 4.6 All valve fasteners are to be rust proof.
- 4.7 Valve castings are marked with the requirements of AWWA C500 and MSS-SP25.
- 4.8 The direction of rotation for the 2-inch operating nut or hand wheel to open the valve will be left (counterclockwise); unless otherwise requested.
- 4.9 Each hand wheel and 2-inch operating nut has cast thereon the word "OPEN" and an arrow indicating the direction to open.
- 4.10 Valves 16-inch and larger are provided with tongue-and-groove guides. The guides are on the sides of the gate and in the body to keep the gate centered between the seats throughout its length of travel.
- 4.11 Valves 16-inch and larger are supplied with rollers, tracks, and a self-adjusting scraper.
- 4.12 Valves 16-inch and larger will be supplied with a by-pass valve as specified by AWWA C500.

MATERIALS

- 5.1 Metal Seated Gate Valves are supplied with ductile iron bodies, bonnets, discs, and hand wheels.
- 5.2 Gate Valves are supplied with bronze trim.
- 5.3 Metal Seated Gate Valves are provided with Garlock braided PTFE non-asbestos packaging.
- 5.4 Stuffing box glands are bronze; gland followers are ductile iron.

tile iron.

- 5.5 Gate valve stem is Stainless Steel to prevent breaking.
- 5.6 Body and bonnet fasteners are made of rustproof material having the physical properties of ASTM A30.
- 5.7 Valve 16-inch and larger are provided with tongue-and-groove guides that are manufactured with 316 stainless steel.
- 5.8 Valves 16-inch and larger are supplied with rollers and tracks that are manufactured with 316 stainless steel.
- 5.9 Valves 16-inch and larger are supplied with a self-adjusting scraper that is manufactured with 316 stainless steel.
- 5.10 By-Pass valves are to be non-rising stem gate valves which are in compliance with AWWA C509 or AWWA C500; open left (counterclockwise) unless otherwise requested. By-pass valves can be provided with a 2" operating nut or hand wheel as requested.

COATINGS

- 6.1 Internal and external coatings are 2-Part Epoxy NSF-61 approved.
- 6.2 Internal and external coatings are in accordance with AWWA C550.

MANUAL GEARING

- 7.1 All Gate Valves 18-inch and larger are supplied with bevel gearing or spur gearing depending on the application requirements. Bevel Gears or Spur Gears can be adapted to any size valve upon request.

OPTIONS

- 8.1 Extension Stems
- 8.2 Position Indicators
- 8.3 Valve Boxes
- 8.4 Indicator Posts
- 8.5 Electric Motor Operators
- 8.6 Limit Switches

MANUFACTURER

- 9.1 All valves shall be hydrostatically and seat tested per AWWA C500 to structural integrity. When requested, the manufacturer shall provide test certificates, dimensional drawings, parts list drawings, and operation and maintenance manuals.
- 9.2 Metal Seated Solid Wedge Gate Valve Series 3000 will be as those manufactured by J&S Valve, Inc. Huffman, TX USA or approved equal.



J & S Valve®

Improving the Industry Standard!

Giving More to the End Users!

J & S VALVE manufactures Gate Valves which "Improve the Industry Standards". The American Water Works Association (AWWA) Standards C509 establishes the minimum design and testing requirements for gate valves. Other gate valve manufacturers strive to design their valve as close to the minimum as possible and still be in compliance with the AWWA standards. J&S manufactures with materials that exceed the minimum set out by the AWWA standards.

The AWWA C509 Standard (the Standard for Resilient Gate Valves) states the minimum thickness of the body and bonnet and states that the valve can be made of cast grey iron or ductile iron. J & S Valve improves the standard by exceeding the minimum thickness stated in C509 and manufacturing cast components of ductile iron (Including the body, bonnet, wedge, seal plate, and operating nut). The tensile strength of the J&S cast ductile iron is 65,000 psi with a 12% elongation property. The tensile strength of most cast grey iron is 30,000 psi with less than 1% elongation.

Our Commitment is to provide a higher quality gate valve to the water works industry is why we use a higher strength materials than the minimum required by the AWWA standards. J&S Resilient Seated Gate Valve materials include using large diameter stainless steel stem, a thicker aluminum bronze stem nut, fusion bonded epoxy coatings inside and outside, corrosive resistant bolts, and EPDM rubber components. J&S give the customers a stronger more robust, extra heavy duty, more reliable and long lasting gate valve. In addition, J&S offers the most experience in production of 72" Resilient Seated Gate Valves in the world. J&S maintain a finished goods inventory of valves 2" - 48" to service our customers like no other valve manufacturer. J&S has the most complete line of AWWA Resilient Seated Gate Valves as well as Metal Seated Gate Valves in the world. Manufacturing both Non Rising Stem (NRS) and Outside Screw and Yoke (OS&Y) in sizes range from 2" to 108".

Install Reliability

Install J&S Valve

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