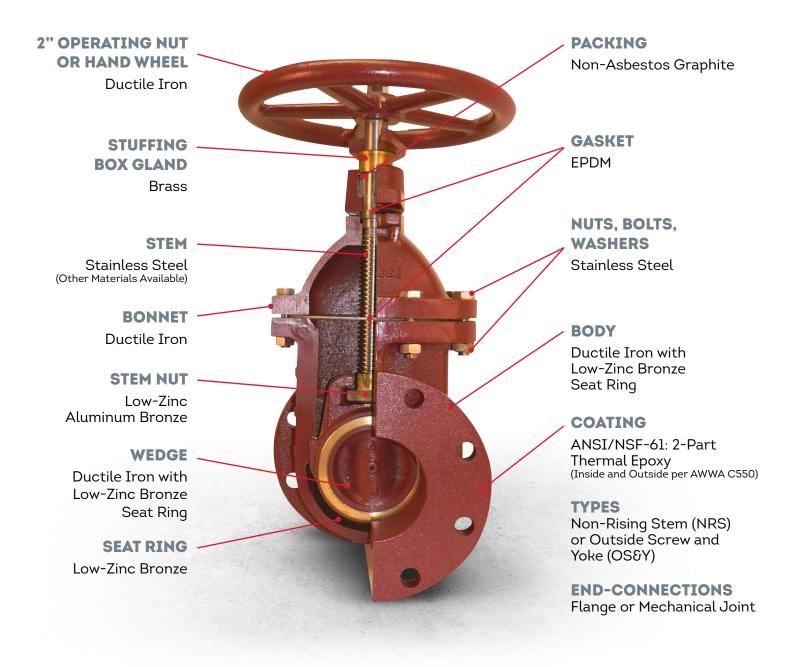


### SERIES 3000 - AWWA C500 SIZES: 2" - 108"

#### **IRON BODY, BRONZE MOUNTED**

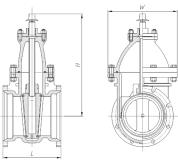




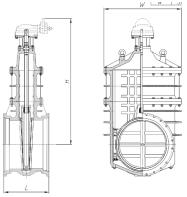


 $Design \ and \ Materials \ Subject \ to \ Change \ Without \ Notice. \ Call \ for \ Verification \ and \ Any \ Updated \ Drawings$ 

#### SERIES 3900 - MJ • NRS • AWWA C500



MJ X MJ, NRS, 2" - 12"



MJ X MJ, NRS, 14" - 48"

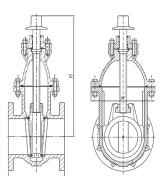
SIZE	MODEL	L	н	W
2"	3902	8"	11 3/8"	7 1/4"
2.5"	39025	9"	11 3/4"	7 3/8"
4"	3904	10"	15"	8 5/8"
6"	3906	11 1/2"	19 1/2"	11 7/8"
8"	3908	12 1/2"	22 7/8"	14 1/2"
10"	3910	14 3/4"	26"	17 3/8"
12"	3912	14 7/8"	30 1/4"	19 7/8"

Offered: Open Left or Open Right. Optional Bevel or Spur Gear Available.

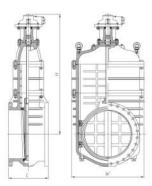
SIZE	MODEL	L	н	W
14"	3914	20 1/8"	39 <sup>3/8</sup> "	22 5/8"
16"	3916	20 7/8"	44 1/2"	27 3/8"
18"	3918	21 1/4"	48 3/4"	29 7/8"
20"	3920	22"	53 1/8"	32 1/2"
24"	3924	26 <sup>3/8</sup> "	53 <sup>7/8</sup> "	37 1/4"
30"	3930	29 1/2"	72 7/8"	44 3/8"
36"	3936	35 <sup>7/8</sup> "	87 1/4"	56 <sup>5/8</sup> "
42"	3942	36"	96"	57 <sup>3/8</sup> "
48"	3948	44 "	112 3/4"	69 1/8"

Offered: Open Left or Open Right. 18" & Larger - Gear Operator, Included - Specify Bevel or Spur Optional Gear Available. 14" & 16" Gear Operator, Available. 30" and larger have Rollers, Tracks and Scrapers on both sides for Vertical or Horizontal Installation. Optional, Integral By-Pass Available on 16" and larger

#### SERIES 3800 - FL • NRS • AWWA C500



FL X FL, NRS, 2" - 12"



FL X FL, NRS, 14" - 66"

Offered: Open Left or Open Right. 18" & Larger - Gear Operator, Included - Specify Bevel or Spur Gear with 2" Oper-ating Nut or Handwheel, 14" & 16" Optional Gear, Available. 30" and Larger have Rollers, Tracks and Scrapers on both sides for Vertical or Horizontal Installation. Optional, Integral By-Pass Available on 6" and Larger. Valves Larger than 66" Available.

SIZE	MODEL	L	н	W
2"	3802	7"	10 1/4"	5 7/8"
2.5"	38025	7 1/2"	11"	6 1/2"
3"	3803	8"	14 3/4"	7 1/2"
4"	3804	9"	16 "	8 3/4"
6"	3806	10 1/2"	20 1/8"	11 7/8"
8"	3808	11 1/2"	24 1/4"	13 1/2"
10"	3810	13"	31"	17 3/4"
12"	3812	14"	30 1/4"	19 7/8"

Offered Open Left or Open Right, 2" Operation Nut or Handwheel. Optional, Bevel or Spur Gear Available with Handwheel or 2" Operating Nut

SIZE	MODEL	L	Н	W
14"	3814	15"	39"	22 5/8"
16"	3816	16"	44 3/8"	27 3/8"
18"	3818	17"	48 5/8"	30"
20"	3820	18"	53"	32 3/8"
24"	3824	20 1/2"	53 7/8"	37 1/8"
30"	3830	24"	72 7/8"	44 3/8"
36"	3836	28"	87 1/4"	56 5/8"
42"	3842	36"	96"	57 <sup>3/8</sup> "
48"	3848	44"	112 3/4"	69 1/8"
54"	3854	37 1/4"	121 5/8"	77 1/2"
60"	3860	37 1/4"	130 1/2"	83 <sup>7/8</sup> "
66"	3866	37 1/4"	135 1/4"	90 1/8"

**SERIES 3000 - AWWA C500** 

SIZES: 2" - 108"

TYPE: OUTSIDE SCREW & YOKE (OS&Y)

## FULL NOMINAL PIPE SIZE PORT AREA SIZES: 54" & LARGER

#### **BODY**

Ductile Iron with Low-Zinc Bronze Seat Ring

#### **WEDGE**

Ductile Iron with Low-Zinc Bronze Seat Ring

#### **STEM**

Stainless Steel (Other Materials Available)

#### **STEM NUT**

Low-Zinc Aluminum Bronze

#### **SEAT RINGS**

Low-Zinc Bronze

#### COATING

ANSI/NSF-61: 2-Part Thermal Epoxy (Inside and Outside per AWWA C550



## ROLLERS, TRACKS, & SCRAPER

30" & Larger - RTS on Both Sides of Body for Vertical or Horizontal Installation

#### **BONNET**

**Ductile Iron** 

#### **NUTS, BOLTS, WASHERS**

Stainless Steel

#### **BY-PASS**

Integral By-pass, Available (sized per AWWA C500 Standard)

#### **END-CONNECTIONS**

Flange up to 108" or Mechanical Joint up to 48"

#### **TYPES**

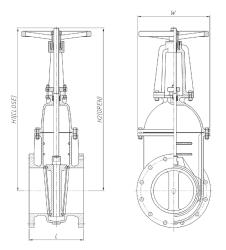
Non-Rising Stem (NRS) or Outside Screw and Yoke (OS&Y)





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

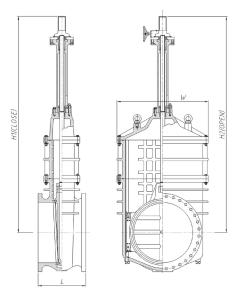
## **SERIES 3700** FL • OS&Y • AWWA C500



FL X FL, OS&Y, 2" - 12"

SIZE	MODEL	L	H1	H2	W
2"	3702	71/8"	14"	16"	71/8"
3"	3703	8 1/8"	16"	19 1/8"	7 3/8"
4"	3704	9 1/8"	21"	24 7/8"	8 5/8"
6"	3706	10 5/8"	27 1/4"	33 1/8"	11 7/8"
8"	3708	11 5/8"	35 <sup>3/8</sup> "	43 3/8"	17 3/8"
10"	3710	13 1/4"	38 1/2"	48 3/8"	17 3/8"
12"	3712	14 1/4"	42 1/4"	54"	19 7/8"

Offered Open Left or Open Right. Optional Bevel or Spur Gear Available with Handwheel or 2" Operating Nut.



FL X FL, OS&Y, 14" - 66"

SIZE	MODEL	L	H1	H2	W
14"	3714	15"	49"	62 3/4"	22 5/8"
16"	3716	16"	59 <sup>3/8</sup> "	75 <sup>3/4</sup> "	27 3/8"
18"	3718	17"	68 1/8"	85 3/4"	29 <sup>7/8</sup> "
20"	3720	18"	78 <sup>3/4</sup> "	98 <sup>3/8</sup> "	32 1/2"
24"	3724	20"	84 1/2"	108 1/8"	371/4"
30"	3730	24"	102 3/8"	131 7/8"	44 3/8"
36"	3736	28"	120 1/8"	155 1/2"	56 <sup>5/8</sup> "
42"	3742	36"	132 1/2"	173 <sup>7/8</sup> "	57 <sup>3/8</sup> "
48"	3748	44"	160"	2071/4"	69 1/8"
54"	3754	37 1/4"	174 3/4"	228"	77 1/2"
60"	3760	37 <sup>1/4</sup> "	1891/2"	248 5/8"	83 7/8"
66"	3766	37 1/4"	200 1/8"	265 1/8"	901/8"

Offered: Open Left or Open Right. 18" & Larger - Gear Operator, Included - Specify Bevel or Spur Gear with 2" Operating Nut or Handwheel. 14" & 16" Optional Gear, Available. 30" and Larger have Rollers, Tracks and Scrapers on both sides for Vertical or Horizontal Installation. Optional, Integral By-Pass Available on 16" and Larger. Valves Larger than 66", Available.

#### **SERIES 3000 - AWWA C500**

SIZES: 2" - 108"

**TYPE: NON-RISING STEM (NRS)** 

## FULL NOMINAL PIPE SIZE PORT AREA SIZES: 54" & LARGER

#### **BODY**

Ductile Iron with Low-Zinc Bronze Seat Ring

#### **BONNET**

**Ductile Iron** 

#### **WEDGE**

Ductile Iron with Low-Zinc Bronze Seat Ring

#### **STEM**

Stainless Steel (Other Materials Available)

#### **STEM NUT**

Low-Zinc Aluminum Bronze

#### **SEAT RINGS**

Low-Zinc Bronze

#### **NUTS, BOLTS, WASHERS**

Stainless Steel



#### COATING

ANSI/NSF-61: 2-Part Thermal Epoxy (Inside and Outside per AWWA C550)

## ROLLERS, TRACKS, & SCRAPER

30" & Larger - RTS on Both Sides of Body for Vertical or Horizontal Installation

#### **BY-PASS**

Integral By-pass, Available (sized per AWWA C500 Standard)

#### **TYPES**

Non-Rising Stem (NRS) or Outside Screw and Yoke (OS&Y)

#### **END-CONNECTIONS**

Flange up to 108" or Mechanical Joint up to 48"





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

# AWWA C500 METAL SEATED IRON BODY BRONZE MOUNTED SOLID WEDGE GATE VALVE

#### 1. SCOPE

1.01 This specification covers design, manufacture, and testing of 3-inch through 108-inch, Metal Seated Gate Valves, suit-able for water or wastewater service as set forth in the American Water Works (AWWA) C500 Standard, most recent published version.

#### 2. STANDARDS

- 2.01 Valves 3-inch through 12-inch minimum cold-water working pressure of 200psig; 14-inch through 72-inch minimum cold-water working pressure of 150psig. Valves larger than 72-inch cold-water pressure rating on application and as agreed between the manufacture and customer. Valves larger than 72-inch, where applicable, shall be manufactured in compliance with AWWA C500.
- **2.02** Valves shall be NSF 61 and NSF 372 Certified for use in drinking water applications.
- **2.03** Valves shall be tested in accordance with Testing Section 5.1 of the AWWA C500.

#### 3. CONNECTIONS

- 3.01 Valve end-connections shall be:
  - **A.** Flange end-connections comply with ANSI B16.1, Class 125, rated for 250psig, or ANSI B16.42, Class 250 rated for 350psig. for ductile iron.
  - B. Mechanical Joint ANSI/AWWA C110/A21.10, ANSI/ AWWA C111/A21.11, or ANSI/AWWA C153/21.53. C153/21.53.

#### 4. DESIGN

- 4.01 Valves shall be non-rising stem (NRS) or outside screw and yoke (OS&Y) configurations, as specified.
- **4.02** Valve shall have full nominal port diameter; reduced port not acceptable.
- **4.03** Valve shall have a full-port, unobstructed, water way when in the full-open position.
- 4.04 Valves shall have bronze seating rings, machined and scraped, if necessary, to seat truly flat against body and wedge seat rings.
- 4.05 Valves OS&Y shall have multiple rings of packing and a stuffing box.
- 4.06 Valve shall permit repacking under line pressure.
- **4.07** Valve stem shall have one-piece, integral thrust collar. Valve stems shall rotate freely in the valve bonnet recess
- **4.08** Valve direction of open shall be counterclockwise; unless otherwise specified.
- **4.09** Valve 2-inch operating nut or handwheel shall have cast the word "OPEN" and an arrow indicating the direction to open.
- **4.10** Valves 16-inch and larger shall be provided with tongue- and-groove guides. The guides shall be on both sides of the wedge and in the body to keep the wedge centered between the seats throughout its length of travel.
- 4.11 Valves 16-inch and larger shall have rollers, tracks, and a self-adjusting scrapers on both sides allowing valves to be installed in the vertical or horizontal position. Tracks shall be U-shaped stainless steel to cover the entire side surface of the body to prevent any build-up and foreign matter in the valve body.
- **4.12** Valves 16-inch and larger shall be supplied with a by-pass valve, when specified.
- 4.13 Valves, 30-inch and larger, shall be 3-piece body design; bonnet, body spacer, body.
- **4.14** Valve castings shall be marked with the requirements of AWWA C500 and MSS-SP25.

#### 5. MATERIALS

- **5.01** Valve body, bonnet, wedge and 2-inch operating nut or handwheel shall be ductile iron ASTM-A536 65-45-12.
- 5.02 Valves shall have bronze seat rings.
- 5.03 Valves shall have Garlock fiber braded Teflon impregnated, or equal, non-asbestos packing or o-rings.
- **5.04** Valve stuffing box glands shall be bronze; gland followers shall be ductile iron.
- 5.05 Valve stem shall be Series 300 Stainless Steel
- **5.06** Valve body and bonnet bolting shall be Series 300 Stainless Steel, unless otherwise specified.
- 5.07 Valves, 16-inch and larger, shall have tongue-and-groove guides constructed of Series 300 Stainless Steel.
- **5.08** Valves, 16-inch and larger, shall have rollers and tracks constructed of Series 300 Stainless Steel.
- **5.09** Valves, 16-inch and larger, shall have bronze self-adjusting scrapers.
- **5.10** Valve, by-pass valves:
  - A. Shall be non-rising stem or OS&Y gate valves, as specified.
  - B. Shall comply fully with AWWA C509, C515, or C500
  - C. Shall open counterclockwise, unless otherwise specified.
  - D. Shall have 2-inch operating nut or handwheel, as specified.

#### 6. COATINGS

- **6.01** Valve internal and external coatings shall be NSF-61 Certified, 2-Part Thermal Setting Epoxy Paint.
- **6.02** Valve internal and external coatings shall be in accordance with AWWA C550.

#### 7. MANUAL GEARING

- 7.01 Valves 18-inch and larger shall have bevel gearing or spur gearing depending on the application requirements. Bevel Gears or Spur Gears can be adapted to any size valve upon request.
- 7.02 Valve gear case fully enclosed, unless otherwise specified

#### 8. OPTIONS

- 8.01 Extension Stems.
- 8.02 Position Indicators.
- 8.03 Valve Boxes.
- 8.04 Indicator Posts.
- 8.05 Electric Motor Operators.
- **8.06** Limit Switches.

#### 9. MANUFACTURER

- 9.01 Valves shall be hydrostatically seat tested and shell tested per AWWA C500 to show structural integrity. When requested, the manufacturer shall provide test certificates, dimensional drawings, parts list drawings, and operation and maintenance manuals.
- 9.02 Metal Seated Solid Wedge Gate Valve Series 3000 manufactured by J&S Valve, Inc. Huffman, TX, USA or preapproved equal. (10062019 jb sb rl)

# IMPROVING THE INDUSTRY STANDARD.



#### INSTALL RELIABILITY. INSTALL J&S VALVE

J&S Valve shows its commitment to providing quality products by manufacturing with highest grade materials and extensive testing of its valves. J&S is a leader in the Waterworks Industry. We provide products and services that consistently exceed our customers' needs as they relate to quality, performance, dependability, operation, and delivery.



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