

# **American R/D**

## **SOLID WEDGE GATE VALVE C-500**



**2" THROUGH 96"**

**SERIES 100**

**SERIES 105**

**2" Through 96"  
Ductile IRON Construction  
Full Waterway  
AWWA C-500  
Rated up to 250 psi**



# 100-LINE SOLID WEDGE GATE VALVE

## FEATURES

The American R/D series 100-line is supplied in both NRS and OS&Y styles. The 100-line is a solid wedge NRS gate valve and the 105-line is a solid wedge OS&Y gate valve. Both series of valves are available in 2" through 96" NPS. Designed in accordance with AWWA C500 and applicable ANSI, ASTM and other industry standards. For higher pressure systems or highly corrosive environments the valves are produced in ductile iron or 3% nickel iron. All valves 16" NPS and larger

are designed with bronze body and wedge guides. Available with hand wheels, operating nuts and when required, integrally cast mounting pads for gears or electric actuators. Valves are protected externally and internally with coatings conforming with AWWA C500.

### The American R/D Gate 100-Line Solid Wedge NRS Gate Valve and 105-Line Solid Wedge OS&Y have three standard features:

- Conforms with AWWA C500, ANSI B16.1-Class 125 Drilling
- Available with flanged, MJ or grooved ends
- Working pressure:  
2"-12" NPS up to-250 p.s.i. max., 14"-96" NPS up to-150 p.s.i. max.
- Bronze trim with 304 stainless steel stems
- Bronze body and wedge guides in all valves 16" NPS and larger
- One piece solid wedge design
- External and internal protective coatings
- Valves may be produced with accessories such as by-passes, cleanouts, indicators, rollers, tracks and scrapers, extension stems, and floorstands.
- Ductile iron construction
- For stress corrosion environments we can supply stainless steel grade 304 or 316 seats and disc.

## SAMPLE SPECS

Gate valves for wastewater and sewage applications should be designed and produced in accordance with AWWA C500. Pressure containing components should be ductile iron ASTM A536, GR 65/45/12. Wedge seating surfaces and body seat rings are to be cast from ASTM B62 bronze. Stems should have integral collars and be machined from corrosion resistant stainless steel conforming with grade 304 or materials offering equal or greater physical and material properties. All valves 16" NPS or larger require bronze body and wedge guides with a length equal to at least 50 percent of the normal pipe size. Body and bonnet fastener should be of

rustproof material having the physical properties of ASTM A307. Packing and gaskets shall be of non-asbestos materials. Valves are to be designed with minimal moving parts to prevent clogging or excessive build-up of foreign matter. Valve coatings should be consistent with AWWA C500. Testing and inspections shall conform to AWWA C500 section five. Valves should be marked with the requirements of AWWA C500. Valves to be equal in all respects to the American R/D AWWA Solid Wedge Gate Valve, 100 Series for NRS style and 105 Series for OS&Y style.

# D100-LINE SOLID WEDGE HIGH PRESSURE GATE VALVE

## FEATURES

The American R/D series D100-line is a solid wedge NRS gate valve available in nominal pipe sizes 2" through 48". Designed in accordance with AWWA C500 and applicable ANSI, ASTM and industry standards. Constructed of ductile iron ASTM A536 GR65/45/12 with bronze trim and 304 stainless steel stems.

All valves 16" NPS or larger are designed with bronze body and wedge guides. Available with handwheels, operating nuts and when required, integrally cast mounting pads. Valves are protected externally and internally with coatings conforming with AWWA C500.

### The American R/D D100-Line Solid Wedge Gate Valve has these standards features:

- Conforms with AWWA C500, ANSI B16.1-Class 250 Drilling
- Available with flanged or MJ ends
- Working pressure:  
2"-48" NPS up to-250 p.s.i. max.
- Valves may be produced with accessories such as by-passes, cleanouts, indicators, rollers, tracks and scrapers, extension stems and floorstands.
- Bronze trim with 304 stainless steel stems
- Bronze body and wedge guides in all valves 16" NPS and larger
- One piece solid wedge design
- External and internal protective coatings
- For stress corrosion environments we can supply stainless steel grade 304 or 316 seats and disc.

## SAMPLE SPECS

Gate valves for wastewater and sewage applications should be designed and produced in accordance with AWWA C500. Pressure containing components should be cast from ductile iron ASTM A536 GR65/45/12. Wedge seating surfaces and body seat rings are to be cast from ASTM B62 bronze. Stems should have integral collars and be machined from corrosion resistant stainless steel conforming with grade 304 or materials offering equal or greater physical and material properties. All valves 16" NPS or larger require bronze body and wedge guides with a length equal to at least 50 percent of the normal pipe size. Body and bonnet

fasteners should be of rustproof material having the physical properties of ASTM A307. Packing and gaskets shall be of non-asbestos materials. Valves are to be designed with minimal moving parts to prevent clogging or excessive build-up of foreign matter. Valve coatings should be consistent with AWWA C500. Testing and inspections shall conform to AWWA C500 section five. All valves should be hydrostatically seat tested to 300 psi minimum. Valves should be marked with the requirements of AWWA C500 section six and MSS-SP25. Valves to be equal in all respects to the American R/D Solid Wedge D100AWWA Series,

# 100-LINE SOLID WEDGE GATE VALVE

- Valve available in NRS or OS&Y, in sizes 2"-96"

- Series 100 and 105 2"-12" rated up to 250 psi and 14-96" rated up to 150 psi.

- Series D100 2"-48" rated up to 250 psi

- Available with class #125 and #250 drilling, flange, mechanical Joint, grooved and any combination

- Liquid applied epoxy coating inside and exterior with industry accepted coatings

- Full flow waterway

- Close fitting stem to wedge engagement maintains components aligned

- Extra wide bronze surfaces on disc and seat ring provide large seating area

- Corrosion resistant one piece stem made of high strength stainless steel

- O-ring design and/or adjustable Teflon impregnated packing available on NRS and OS&Y configurations

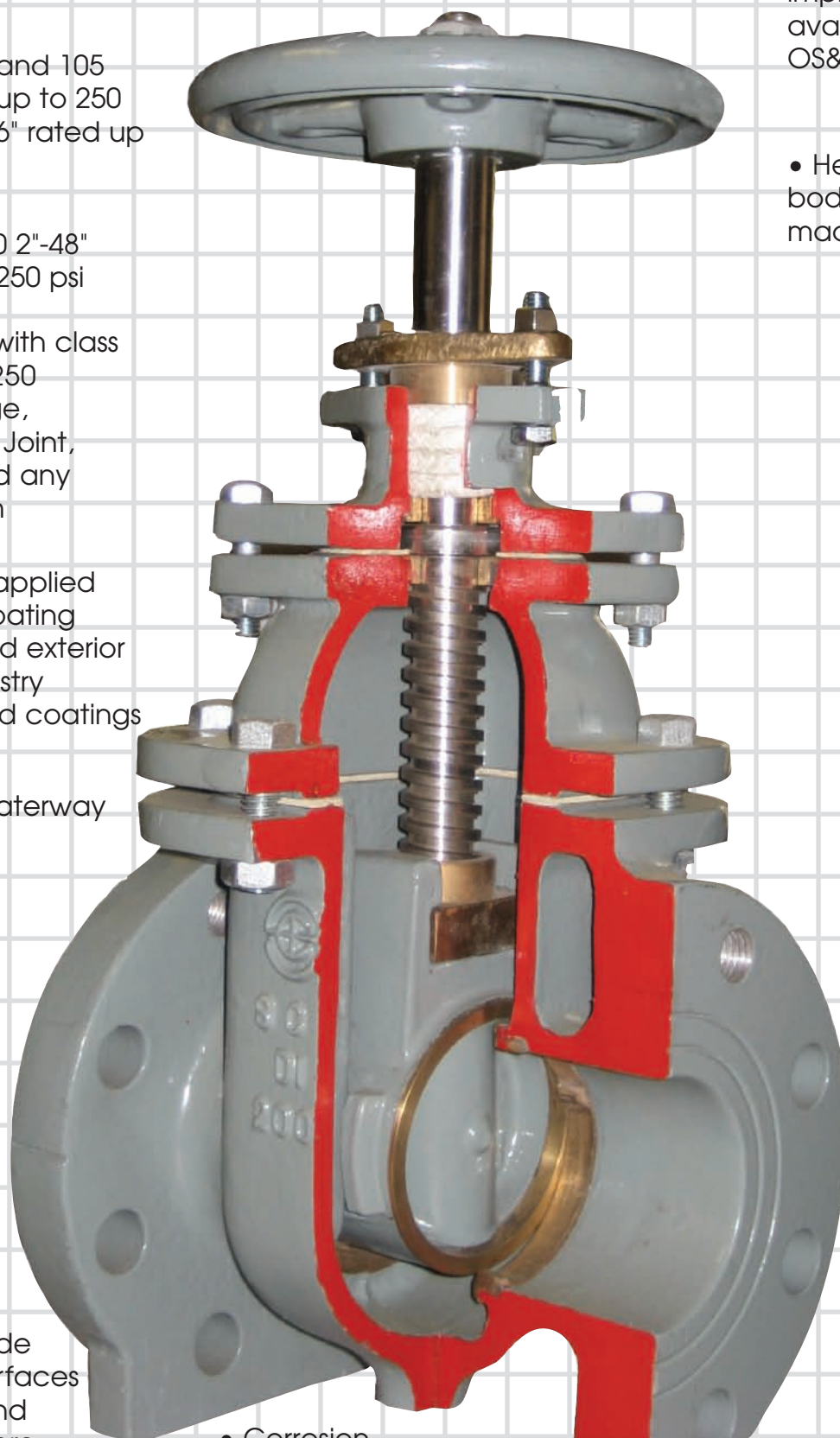
- Heavy duty "full body" wall thickness made in Ductile Iron

- Solid one piece tapered wedge assures excellent performance and prevents clogging

- Full wedge guides engage with body guides to maintain parts in position: 16" and larger sizes use bronze wedge end body guides

- May be manufactured with: bypasses, integral cast flushing ports/cleanouts, Stainless steel grade 304 or 316 seating surfaces, rollers-tracks-scrappers, extension stems, floor stands, actuators, and position indicators.

- Rollers, tracks and scrapers recommended for horizontal applications over 16" in size.



# American R/D In-Plant Products

- 3"-72" Rotating-Revolving Disc Gate Valves
- 2"-96" Solid Wedge Gate Valves
- 2"-48" Resilient Wedge Gate Valves
- 4"-30" Swing Check Valves
- 3"-24" Eccentric Plug Valves
- 4"-30" Flap Valves
- 4"-30" Shear Gates
- 4"-14" Sluice Gates
- 4"-24" Mud Valves
- Pressure Relief Valves- Wall & Floor
- In — Plant Accessories
  - Chainwheels
  - Floorstands
  - Stem Guides
  - Extension Stems
  - Actuators

For dimensions and drawings of our 2"-96" Solid Wedge Gate valve, please contact American R/D at (256) 831-2236.

## **American R/D**

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