

# **American R/D**

**A Division of McWane, Inc.**

In-Plant Valve Products

1800 Greenbrier Road

Anniston, AL 36207

T: (256) 831-2236 ♦ F: (256) 831-2884 ♦ [www.american-rd.com](http://www.american-rd.com)

Solid Wedge Gate Valves 2" to 96"

Series 100 – NRS

Series 105 – OS&Y

1. Manufacturers:

A. American R/D

2. Provide valve in compliance with AWWA C500 (latest edition).

3. Materials:

A. Valve Body, Bonnet, Wedge: Ductile Iron ASTM-A536 (65/45/12)

B. Provide valve body of ductile iron full body thickness

C. Scraper, Stem Nut, Wedge and Body Seat Rings: B62-Low Zinc Bronze.

D. Valve Body Wedge Guides and Tracks -Bronze- B62-Low-Zinc-Bronze

E. Stem: Type 316 Stainless Steel ASTM-A276

F. Valve Bolts and Nuts: Type 304 Stainless Steel

4. Valve Construction:

A. Rated Working Pressure:

I. Valves 2" through 48" : 250 psi

II. Valves 54" through 72": 150 psi

III. Valves 84" through 96" : 100 psi

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2"-108" AWWA Gate Valves

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## 5. Design:

- A. Exposed valves: Flanged OS&Y valves. Face-to-face dimensions to comply with ANSI B16.10, flanges to comply with ANSI B16.1.
  - I. Provide conventional packing in OS&Y valves.
  - II. Provide Type 304 stainless steel bolts and bronze nuts for stuffing box follower.
- B. Buried Valves: NRS with gear operator.
  - I. Mechanical joint
  - II. Provide conventional packing or double O rings in non-rising stem valves
- C. Where specified and indicated provide a bypass valve bolted to bottom or side of main valve body for valves 16" and larger. Provide valve type and material as specified and indicated.
- D. Provide valve body with two integrally cast flushing ports for gate valves sized 14" and larger for valve in an upright installation.
- E. Provide self-adjusting bronze scrapers to allow valve to be mounted in the horizontal position or angle as indicated from vertical or horizontal centerlines.
- F. When required, provide each valve body with integrally cast electric motor mounting pads
- G. Provide a full port body design with full port completely through the entire valve body and seat rings to allow for pigging of pipelines.
- H. Valve in full open position shall provide a clear and unobstructed water way.

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- I. Provide valve body guides and tracks with a bronze bearing surface throughout the entire travel of the bottom side of a horizontally installed valve
    - I. Guide contact area: ASTM B21 Bronze
  - J. Provide valve design to allow complete re-packing of valve stem under pressure when the valve is in the full open position.
  - K. End connections, provide type as indicated and specified:
    - I. Flange          d ANSI B.16.1 Class 125 or Class 250 as required
    - II. Grooved
    - III. Mechanical Joint.
  - L. Provide geared operators for all valves 14" and larger.
    - I. Gearing: Steel with enclosed cases.
      - 1. Provide spur or bevel gearing as determined by valve application and orientation
      - 2. Provide buried valves with totally enclosed gear cases.
  - M. Chain wheels: Provide where required as specified herein.
6. Testing:
- A. Factory test each valve per AWWA C-500 (latest Revision)
7. Provide a two part NSF-61 approved liquid epoxy on the exterior and interior of valve
8. Manufacturer shall have at least 10 years water works or treatment plant experience.