

**AMERICAN AVK RESILIENT SEATED DUCTILE IRON GATE VALVE**  
**250/350 PSI, Tested to AWWA C509 / C515 (NRS)**  
**Mechanical Joint Ends - Valve Sizes 3" - 16"**

**45/MMN-WD**  
**MJxMJ**

**Use:**

For water and neutral liquids to maximum 160°F.

**Tests:**

Hydraulic test to AWWA C509:

Shell Test: 700 PSI 3"-12"

Seat Test: 350 PSI 3"-12"

Shell Test: 500 PSI 14"-16"

Seat Test: 250 PSI 14"-16"

Operating Torque Test

**Optional Materials:**

Wedge                      Ductile iron ASTM A536  
 encapsulated with NBR-rubber  
 compound

Stem                        304 stainless steel

**Standard Materials:**

Body, Bonnet,  
 Gland Flange,  
 Wrench Nut                      Ductile iron ASTM A536  
 (Wrench Nut-painted black for  
 open left, red for open right)

Coating                        Electrostatically applied fusion-  
 bonded epoxy-resin  
 Meets or exceeds AWWA C550

Stem                              Standard: Stainless steel 430F

Wedge                        Ductile iron ASTM A536  
 encapsulated with EPDM-rubber  
 compound

Wedge Nut, Thrust Collar    Bronze

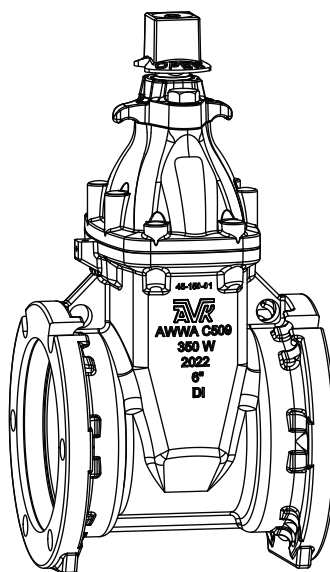
Bonnet Bolts                      Stainless Steel - 316 sealed with  
 hot melt

Gland Bolts                      Stainless Steel - 316  
 Hexagon bolt

Bonnet Gasket,  
 Wiper Ring,  
 O-Ring Stem Seals,  
 O-Ring Gland Seal                      ASTM D2000 Buna "N" nitrile  
 rubber

**Approvals:**

Certified to: ANSI/NSF 61, ANSI/NSF 372

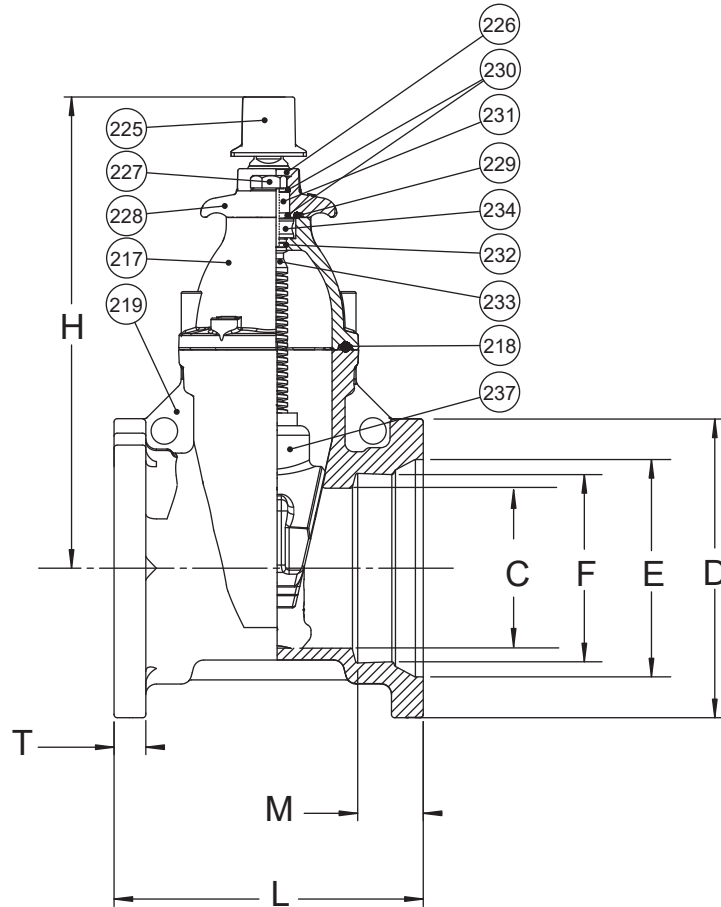


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Component List:

- |                    |                              |                             |
|--------------------|------------------------------|-----------------------------|
| 217. Bonnet        | 227. Gland Flange Bolt       | 232. Lower Stem Seal O-Ring |
| 218. Bonnet Gasket | 228. Gland Flange            | 233. NRS Stem               |
| 219. Body          | 229. Gland O-Ring            | 234. Thrust Collar          |
| 225. Wrench Nut    | 230. Upper Stem Seal O-Rings | 237. Wedge                  |
| 226. Wiper Ring    | 231. Stem Seal Bushing       |                             |



| Ref No.       | Size | Working Pressure | C      | D      | E      | F      | H      | L      | M     | T     | Turns to Open | Weight (lbs.) |
|---------------|------|------------------|--------|--------|--------|--------|--------|--------|-------|-------|---------------|---------------|
| 45-080-MMN-WD | 3"   | 350              | 3.25"  | 7.69"  | 4.96"  | 4.07"  | 12.09" | 8.50"  | 2.50" | 0.95" | 12            | 43            |
| 45-100-MMN-WD | 4"   | 350              | 4.25"  | 9.12"  | 6.00"  | 4.90"  | 13.50" | 10.00" | 2.50" | 1.00" | 14            | 62            |
| 45-150-MMN-WD | 6"   | 350              | 6.25"  | 11.12" | 8.12"  | 7.00"  | 17.50" | 11.50" | 2.50" | 1.18" | 21            | 103           |
| 45-200-MMN-WD | 8"   | 350              | 8.25"  | 13.37" | 10.27" | 9.15"  | 21.50" | 11.50" | 2.50" | 1.24" | 26            | 155           |
| 45-250-MMN-WD | 10"  | 350              | 10.25" | 15.69" | 12.34" | 11.20" | 24.75" | 13.00" | 2.50" | 1.14" | 32            | 240           |
| 45-300-MMN-WD | 12"  | 350              | 12.25" | 17.88" | 14.44" | 13.30" | 27.63" | 14.00" | 2.50" | 1.22" | 38            | 337           |
| 45-350-MMN-WD | 14"  | 250              | 14.00" | 20.31" | 16.61" | 15.50" | 35.75" | 17.95" | 3.50" | 1.32" | 51            | 794           |
| 45-400-MMN-WD | 16"  | 250              | 16.00" | 22.56" | 18.64" | 17.54" | 34.75" | 18.00" | 3.50" | 1.34" | 51            | 800           |

