

# FIG. 135, AWWA C509 GROOVED-END GATE VALVE, 20.7 BAR/ 300PSI

**Size: DN 65 - 300 mm**

## SPECIFICATION

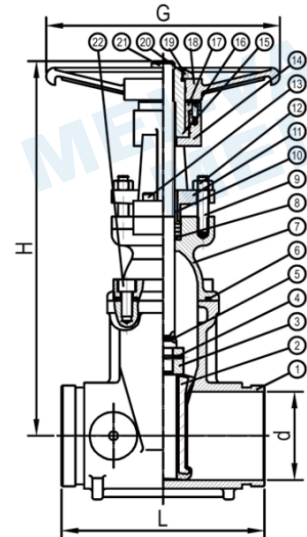
- Bolted Bonnet, Outside Screw and Yoke, Resilient Wedge, Grooved-End
- 20.7 bar/ 300PSI Non Shock Cold Working Pressure.
- Conform to AWWA C509, FBE Coated Interior and Exterior
- FM Approved & UL/ULC Listed, Supply by: FlowCom

### PRESSURE/TEMPERATURE RATINGS

|                     |                               |
|---------------------|-------------------------------|
| Working pressure    | 300 PSI/ 20.7 bar             |
| Testing Pressure    | Shell: 450 PSI, Seat: 330 PSI |
| Working temperature | EPDM ≤85°C                    |
| Suitable Media      |                               |

### MATERIALS Specifications

| Part                     | ASTM Spec.                                  |
|--------------------------|---|
| 1 Body                   | Ductile Iron ASTM A536                      |
| 2 Resilient Wedge        | Ductile Iron ASTM A536 + EPDM Encapsulation |
| 3 Wedge Nut              | Bronze ASTM B584 UNS C83600                 |
| 4 Dowel Pin              | Stainless Steel ASTM A 276 UNS S42000       |
| 5 Stem Back Seat O-Ring  | EPDM  |
| 6 Bonnet Gasket          | EPDM  |
| 7 Bonnet                 | Ductile Iron ASTM A536                      |
| 8 Stem Packing           | EPDM  |
| 9 Threaded Rod           | Carbon Steel Znc Plated                     |
| 10 Gland Bushing         | Brass ASTM B584                             |
| 11 Gland                 | Cast Iron ASTM A126-B                       |
| 12 Gland Nut             | Stainless Steel 18-8                        |
| 13 Yoke Screw            | Alloy Steel ASTM A574M Znc Plated           |
| 14 Yoke                  | Cast Iron ASTM A126-B                       |
| 15 Yoke Bushing          | Bronze ASTM B584                            |
| 16 Flat Point Set Screw  | Alloy Steel ASTM F912M Back Oxide           |
| 17 Yoke Bushing Retainer | Cast Iron ASTM A126-B                       |
| 18 Handwheel             | Ductile Iron ASTM A536                      |
| 19 Handwheel Nut         | Carbon Steel Znc Plated                     |
| 20 Flat Head Screw       | Carbon Steel Znc Plated                     |
| 21 Stem                  | Bronze ASTM B150 UNS C61400                 |
| 22 Bonnet Screw          | Alloy Steel ASTM A574M Znc Plated           |



### Dimension

| Size |     | L    |     | d   |     | G    |     | H (Open) |      | H (Close) |      | Tums to Open |
|------|-----|------|-----|-----|-----|------|-----|----------|------|-----------|------|--------------|
| In.  | mm  | In.  | mm  | In. | mm  | In.  | mm  | In.      | mm   | In.       | mm   |              |
| 2.5  | 65  | 7.5  | 190 | 2.5 | 64  | 7.9  | 200 | 17.8     | 453  | 14.9      | 378  | 8.8          |
| 3    | 80  | 8    | 203 | 3   | 76  | 10   | 254 | 20.1     | 510  | 15.9      | 405  | 10.5         |
| 4    | 100 | 9    | 229 | 4   | 102 | 10   | 254 | 22.4     | 568  | 16.6      | 422  | 13.75        |
| 6    | 150 | 10.5 | 267 | 6   | 152 | 12.4 | 315 | 30.3     | 769  | 22.9      | 581  | 16           |
| 8    | 200 | 11.5 | 292 | 8   | 203 | 14.8 | 375 | 37.8     | 960  | 28.5      | 724  | 17.5         |
| 10   | 250 | 13   | 330 | 10  | 254 | 16.4 | 416 | 44.8     | 1139 | 34.5      | 877  | 21.5         |
| 12   | 300 | 14   | 356 | 12  | 305 | 17.5 | 445 | 52.2     | 1326 | 39.9      | 1014 | 25.5         |

**Note:** Freezing Weather Precaution Subsequent to testing a piping system, valves should be in an open position complete drainage.