

# 285 PSI WWP Ductile Iron Body Gate Valves

Fire Protection Valve • Raised Face Flanges Class 150 • Bolted Bonnet •  
Outside Screw and Yoke • Solid Wedge • B584 Bronze Trim

**285 PSI/19.7 Bar Non-Shock Cold Working Pressure**  
**to -20° F to 100° F/-29° C to 38° C**

TESTING SPECIFICATION TO MSS SP-70

## MATERIAL LIST

| PART                       | SPECIFICATION             |
|----------------------------|---------------------------|
| 1. Stem                    | Bronze ASTM B371          |
| 2. Handwheel Nut           | Bronze ASTM B584          |
| 3. Identification Plate    | Aluminum                  |
| 4. Yoke Bushing            | Bronze ASTM B584          |
| 5. Handwheel               | Iron ASTM A126 Class B    |
| 6. Bonnet Cap Nut          | Steel ASTM A307           |
| 7. Bonnet Cap              | Ductile Iron ASTM A536    |
| 8. <sup>1</sup> Bonnet     | Ductile Iron ASTM A395    |
| 9. Bonnet Cap Bolt         | Steel ASTM A307           |
| 10. Gland Follower Nut     | Brass ASTM B36            |
| 11. Gland Follower         | Ductile Iron ASTM A536    |
| 12. Packing Gland          | Brass or Iron             |
| 13. Packing                | PTFE Braided              |
| 14. Gland Follower Bolt    | Steel ASTM A307           |
| 15. Backseat Bushing       | Bronze ASTM B584          |
| 16. Body Nut               | Steel ASTM A307           |
| 17. Body Bolt              | Steel ASTM A307           |
| 18. Wedge Pin              | Bronze ASTM B371          |
| 19. Body                   | Ductile Iron ASTM A395    |
| 20. <sup>3</sup> Seat Ring | Bronze ASTM B584          |
| 21. Wedge Face Ring        | Bronze ASTM B584          |
| 22. <sup>2</sup> Wedge     | Ductile Iron ASTM A395    |
| 23. Body Gasket            | Synthetic Fibres          |
| 24. Stem Collar            | Bronze ASTM B371          |
| 25. Grease Fitting         | Alemite 1743B (not shown) |

<sup>1</sup> Sizes thru 8" made with Yoke Integral with Bonnet. 10" and 12" sizes made with separate Yoke Bolted to Bonnet.

<sup>2</sup> Sizes 2" thru 6" are all Bronze (31 Trim).  
Sizes 8" thru 12" Ductile Iron Wedge with Bronze Wedge Face Rings (31 Trim).

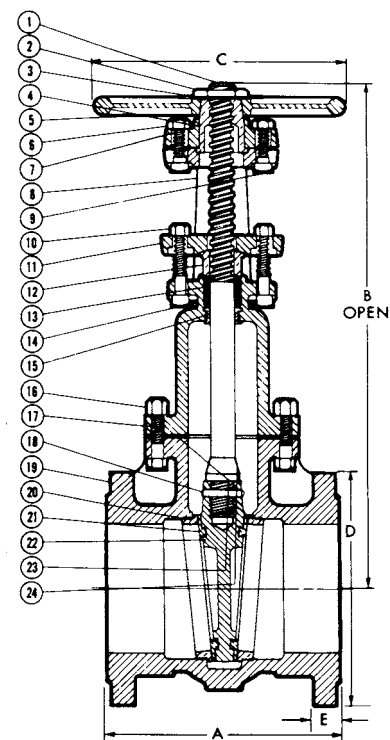
<sup>3</sup> Lugs may be removed at customer's request - POA.

## DIMENSIONS—WEIGHTS—QUANTITIES

| Size    | Dimensions |         |         |         |         |         |         |         |         |         | F-637-31 Weight |     |     |
|---------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------|-----|-----|
|         | A          | B       | C       | D       | E       | A       | B       | C       | D       | E       | Lbs.            | Kg. |     |
| In. mm. | In. mm.    | In. mm. | In. mm. | In. mm. | In. mm. | In. mm. | In. mm. | In. mm. | In. mm. | In. mm. |                 |     |     |
| 2       | 50         | 7.00    | 178     | 16.31   | 414     | 8.00    | 203     | 6.00    | 152     | .63     | 16              | 41  | 19  |
| 2½      | 65         | 7.50    | 191     | 17.19   | 437     | 8.00    | 203     | 7.00    | 178     | .69     | 17              | 55  | 25  |
| 3       | 80         | 8.00    | 203     | 19.50   | 495     | 8.00    | 203     | 7.50    | 191     | .75     | 19              | 67  | 30  |
| 4       | 100        | 9.00    | 229     | 24.00   | 610     | 10.00   | 254     | 9.00    | 229     | .94     | 24              | 107 | 48  |
| 5       | 125        | 10.00   | 254     | 27.13   | 689     | 10.00   | 254     | 10.00   | 254     | .94     | 24              | 145 | 66  |
| 6       | 150        | 10.50   | 267     | 31.06   | 789     | 12.00   | 305     | 11.00   | 279     | 1.00    | 25              | 178 | 81  |
| 8       | 200        | 11.50   | 292     | 40.19   | 1021    | 14.00   | 356     | 13.50   | 343     | 1.13    | 29              | 309 | 140 |
| 10      | 250        | 13.00   | 330     | 48.25   | 1226    | 16.00   | 406     | 16.00   | 406     | 1.19    | 30              | 481 | 218 |
| 12      | 300        | 14.00   | 356     | 56.88   | 1445    | 18.00   | 457     | 19.00   | 483     | 1.25    | 32              | 706 | 320 |



**F-637-31**  
Flanged-Raised Face



**F-637-31**  
Flg x Flg

**FREEZING WEATHER PRECAUTION:** Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.