

## 125# Flanged 200 WOG IBBM Gate, Globe, & Check Valves

### Features:

- 200 PSI WOG Non-Shock (-20°F to 150°F)
- 125 PSI SWP (Saturated Steam to 353°F)
- Bolted Bonnet
- Flat Faced Flanges
- Gates (Fig. 651):
  - Rising Stem OS&Y
  - Tapered Solid Wedge
  - Body Guide Ribs
  - Back Seat Stop
- Globes (Fig. 661):
  - Rising Stem OS&Y
  - Back Seat Stop
- Checks (Fig. 671):
  - Horizontal Swing
  - Horizontal or Vertical Installation with Upward Flow

### Standards:

- Class 125 Flanges: ANSI B16.1
- Face to Face Dimensions: ANSI B16.10
- Designed and Tested to:
  - Gates: MSS SP-70
  - Globes: MSS SP-85
  - Checks: MSS SP-71

### Options & Accessories:

FNW offers many options, accessories and modifications for their iron body valves which include, but are not limited to: By-Passes, Packing Options, Stem Extensions, Floor Stands, Switches, and Actuation such as Pneumatic Cylinders or Electric Operators, Gear Operators, and Chain wheels.



### Pressure/Temperature\*

| TEMP (°F)  | PRES (PSI) | TEMP (°F) | PRES (PSI) |
|------------|------------|-----------|------------|
| -20 to 150 | 200        | 325       | 155        |
| 200        | 190        | 350       | 150        |
| 225        | 180        | 375       | 145        |
| 250        | 175        | 400       | 140        |
| 275        | 170        | 425       | 130        |
| 300        | 165        | **450     | 125        |

\* P/T listed is for 2 to 12 inch, 200 WOG ASTM A126 Class B gray iron valves. Temperatures shown are that of the pressure containing parts of the valve and are assumed to be equal to the contained fluid's temperature. Use of a pressure rating at a pressure containing part temperature other than the contained fluid's is at the responsibility of the end-user.

\*\* Maximum temperature for bronze trim.

### Figure Number Matrix

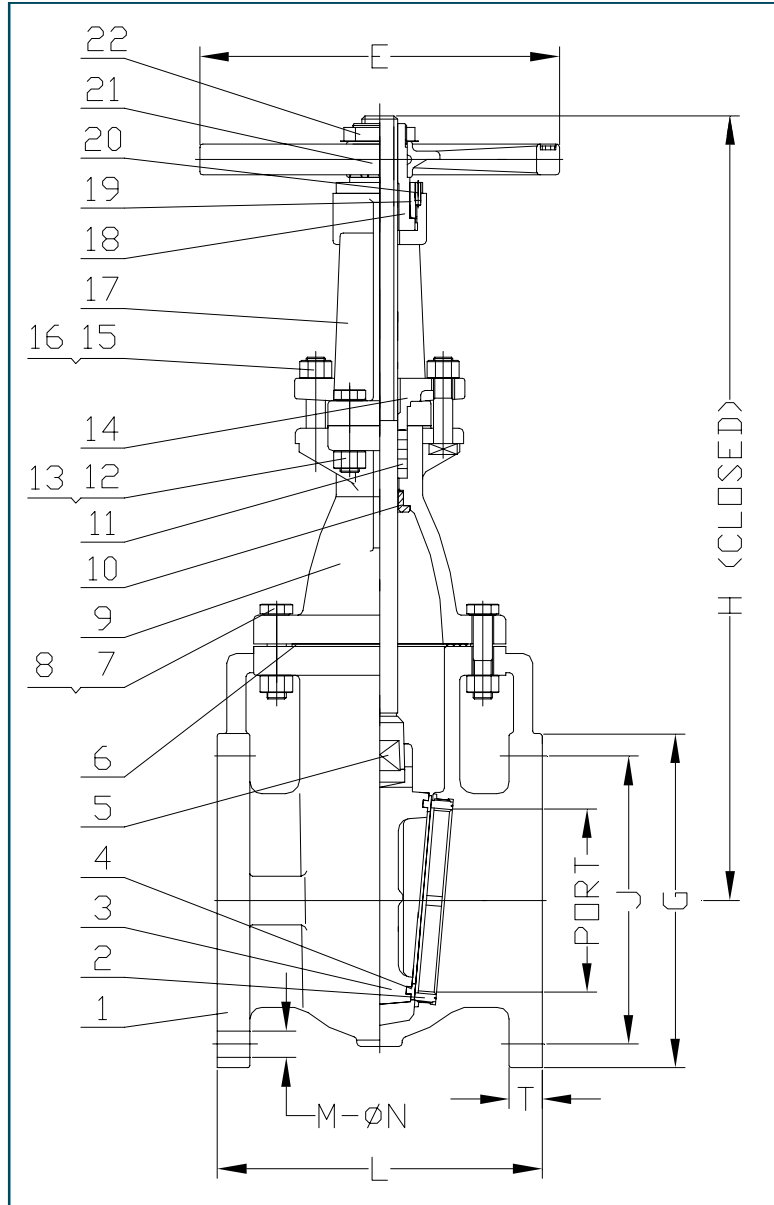
| FNW 6 Type 1 Size |            |       |         |
|-------------------|------------|-------|---------|
| TYPE              | SIZE CODES |       |         |
| GATE = 5          | 2 = K      | 4 = P | 8 = X   |
| GLOBE = 6         | 2-1/2 = L  | 5 = S | 10 = 10 |
| CHECK = 7         | 3 = M      | 6 = U | 12 = 12 |

## 125# Flanged 200 WOG IBBM OS&Y Gate Valve

### Standard Materials

| NO | PART NAME          | MATERIAL         |
|----|--------------------|------------------|
| 1  | Body               | ASTM A126B       |
| 2  | Seat Ring          | ASTM B62         |
| 3  | Wedge              | ASTM A126B       |
| 4  | Wedge Ring         | ASTM B62         |
| 5  | Stem               | ASTM B16         |
| 6  | Bonnet Gasket      | Graphite + Steel |
| 7  | Bonnet Bolt        | ASTM A307        |
| 8  | Bonnet Nut         | Carbon Steel     |
| 9  | Bonnet             | ASTM A126B       |
| 10 | Back Seat Bushing  | ASTM B16         |
| 11 | Packing            | Graphite         |
| 12 | Yoke Bolt          | Carbon Steel     |
| 13 | Yoke Nut           | Carbon Steel     |
| 14 | Packing Gland      | ASTM A536        |
| 15 | Packing Gland Bolt | Carbon Steel     |
| 16 | Packing Gland Nut  | Carbon Steel     |
| 17 | Yoke               | ASTM A126B       |
| 18 | Stem Nut           | Mn-Brass         |
| 19 | Stem Nut Bushing   | ASTM A126B       |
| 20 | Screw              | Carbon Steel     |
| 21 | Handwheel          | ASTM A126B       |
| 22 | Handwheel Nut      | ASTM A536        |
| 23 | ID Plate           | Aluminum         |

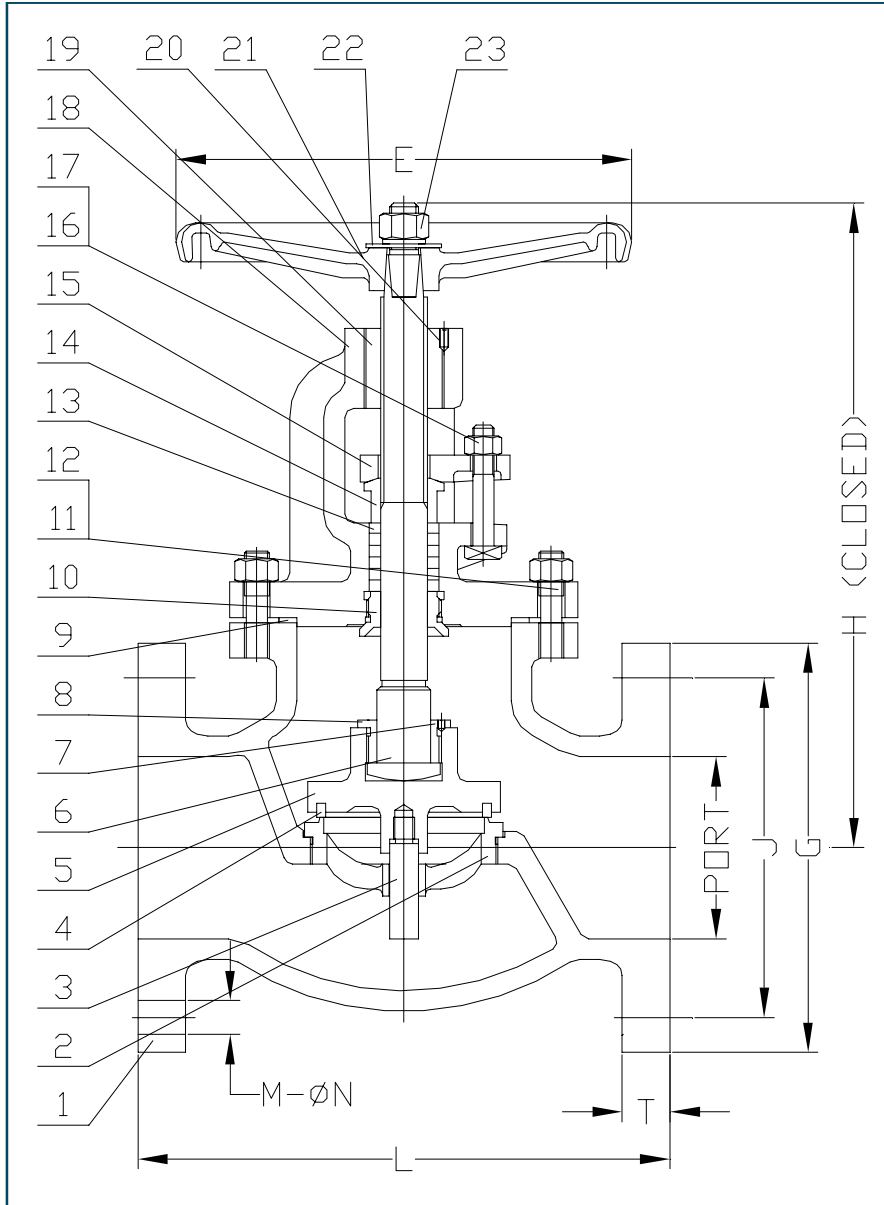
2" to 3" Valves: 1-Piece Bonnet/Yoke  
 4" to 12" Valves: 2-Piece Bonnet & Yoke



### Dimensions (Inches) & Weights (Lbs)

| SIZE              | 2"    | 2-1/2" | 3"    | 4"    | 5"    | 6"    | 8"    | 10"   | 12"   |
|-------------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| PORT              | 2     | 2.5    | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| L                 | 7     | 7.5    | 8     | 9     | 10    | 10.5  | 11.5  | 13    | 14    |
| H (Closed)        | 13.00 | 14.00  | 15.50 | 19.50 | 23.00 | 25.75 | 32.00 | 38.00 | 42.50 |
| E                 | 8     | 8      | 8     | 10    | 12    | 12    | 14    | 16    | 18    |
| Flange Dimensions | G     | 6      | 7     | 7.5   | 9     | 10    | 11    | 13.5  | 16    |
|                   | J     | 4.75   | 5.5   | 6     | 7.5   | 8.5   | 9.5   | 11.75 | 14.25 |
|                   | T     | 0.625  | 0.687 | 0.750 | 0.937 | 0.937 | 1.000 | 1.125 | 1.187 |
|                   | M     | 4      | 4     | 4     | 8     | 8     | 8     | 8     | 12    |
|                   | N     | 0.750  | 0.750 | 0.750 | 0.750 | 0.875 | 0.875 | 0.875 | 1.000 |
| Weight            | 44    | 57     | 71    | 110   | 154   | 196   | 311   | 481   | 694   |

# 125# Flanged 200 WOG IBBM Globe Valve



### Standard Materials

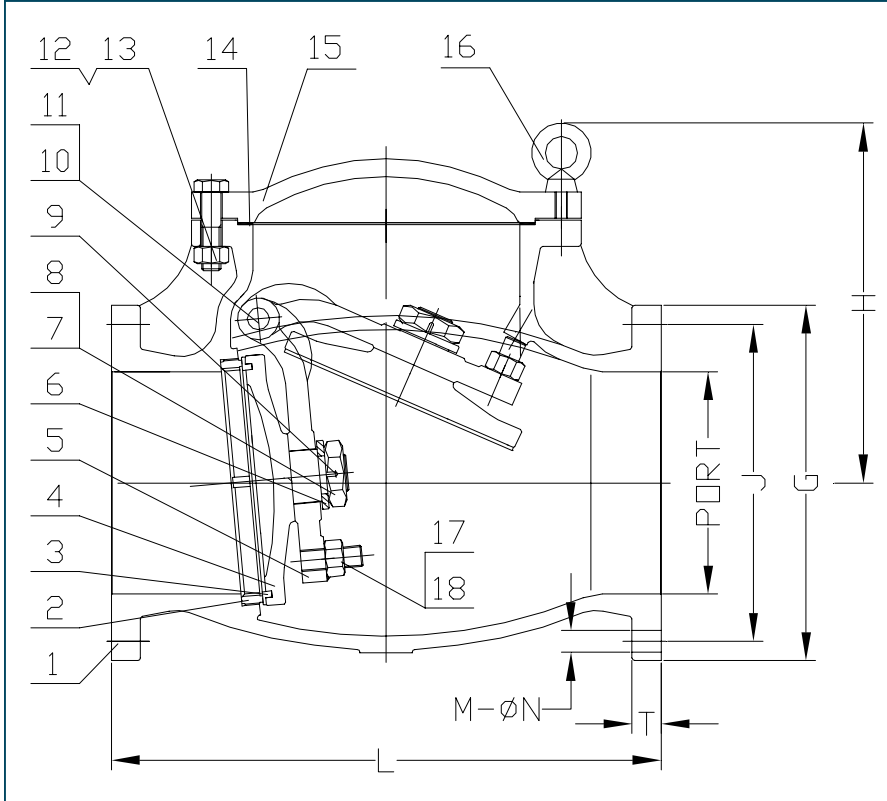
| NO | PART NAME         | MATERIAL         |
|----|-------------------|------------------|
| 1  | Body              | ASTM A126B       |
| 2  | Seat Ring         | ASTM B62         |
| 3  | Guide Spindle     | ASTM B16         |
| 4  | Disc Seal Ring    | ASTM B62         |
| 5  | Disc              | ASTM A126B       |
| 6  | Stem              | ASTM B16         |
| 7  | Check Screw       | Carbon Steel     |
| 8  | Disc Cover        | Carbon Steel     |
| 9  | Bonnet Gasket     | Graphite + Steel |
| 10 | Back Seat Bushing | ASTM B16         |
| 11 | Stud              | ASTM A307        |
| 12 | Nut               | Carbon Steel     |
| 13 | Packing           | Graphite         |
| 14 | Packing Gland     | ASTM B16         |
| 15 | Gland Follower    | ASTM A536        |
| 16 | Square Head Bolt  | Carbon Steel     |
| 17 | Nut               | Carbon Steel     |
| 18 | Bonnet            | ASTM A126B       |
| 19 | Stem Nut          | Mn-Brass         |
| 20 | Screw             | Carbon Steel     |
| 21 | Handwheel         | ASTM A126B       |
| 22 | Washer            | Carbon Steel     |
| 23 | Nut               | Carbon Steel     |
| 24 | ID Plate          | Aluminum         |

2" to 3" Valves: Do not have a spindle guide

### Dimensions (Inches) & Weights (Lbs)

| SIZE              | 2" | 2-1/2" | 3"     | 4"    | 5"    | 6"    | 8"    | 10"   | 12"   |
|-------------------|----|--------|--------|-------|-------|-------|-------|-------|-------|
| PORT              | 2  | 2.5    | 3      | 4     | 5     | 6     | 8     | 10    | 12    |
| L                 | 8  | 8.5    | 9.5    | 11.5  | 13    | 14    | 19.5  | 24.5  | 27.5  |
| H (Closed)        | 12 | 12.5   | 13.125 | 14    | 15.25 | 17    | 19    | 21.25 | 24    |
| E                 | 8  | 8      | 8      | 10    | 12    | 12    | 14    | 18    | 20    |
| Flange Dimensions | G  | 6      | 7      | 7.5   | 9     | 10    | 11    | 13.5  | 16    |
|                   | J  | 4.75   | 5.5    | 6     | 7.5   | 8.5   | 9.5   | 11.75 | 14.25 |
|                   | T  | 0.625  | 0.687  | 0.750 | 0.937 | 0.937 | 1.000 | 1.125 | 1.187 |
|                   | M  | 4      | 4      | 4     | 8     | 8     | 8     | 8     | 12    |
|                   | N  | 0.750  | 0.750  | 0.750 | 0.750 | 0.875 | 0.875 | 0.875 | 1.000 |
| Weight            | 37 | 46     | 62     | 93    | 146   | 176   | 364   | 639   | 886   |

## 125# Flanged 200 WOG IBBM Check Valve



### Standard Materials

| NO | PART NAME       | MATERIAL         |
|----|-----------------|------------------|
| 1  | Body            | ASTM A126B       |
| 2  | Seat Ring       | ASTM B62         |
| 3  | Disc Seal Ring  | ASTM B62         |
| 4  | Disc            | ASTM A126B       |
| 5  | Hinge           | ASTM A216 WCB    |
| 6  | Washer          | Carbon Steel     |
| 7  | Nut             | Carbon Steel     |
| 8  | Stud            | Carbon Steel     |
| 9  | Split Pin       | 304              |
| 10 | Hinge Pin       | 13Cr             |
| 11 | Plug            | ASTM A536        |
| 12 | Bolt            | ASTM A307        |
| 13 | Nut             | Carbon Steel     |
| 14 | Bonnet Gasket   | Graphite + Steel |
| 15 | Bonnet          | ASTM A126B       |
| 16 | Eye Screw       | Carbon Steel     |
| 17 | Adjusting Screw | Carbon Steel     |
| 18 | Nut             | Carbon Steel     |
| 19 | ID Plate        | Aluminum         |

### Dimensions (Inches) & Weights (Lbs)

| SIZE              | 2" | 2-1/2" | 3"    | 4"    | 5"    | 6"    | 8"    | 10"   | 12"   |
|-------------------|----|--------|-------|-------|-------|-------|-------|-------|-------|
| PORT              | 2  | 2.5    | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| L                 | 8  | 8.5    | 9.5   | 11.5  | 13    | 14    | 19.5  | 24.5  | 27.5  |
| H                 | 6  | 6.5    | 7     | 8.75  | 9     | 10    | 12    | 14.75 | 16.25 |
| Flange Dimensions | G  | 6      | 7     | 7.5   | 9     | 10    | 11    | 13.5  | 16    |
|                   | J  | 4.75   | 5.5   | 6     | 7.5   | 8.5   | 9.5   | 11.75 | 14.25 |
|                   | T  | 0.625  | 0.687 | 0.750 | 0.937 | 0.937 | 1.000 | 1.125 | 1.187 |
|                   | M  | 4      | 4     | 4     | 8     | 8     | 8     | 8     | 12    |
|                   | N  | 0.750  | 0.750 | 0.750 | 0.750 | 0.875 | 0.875 | 0.875 | 1.000 |
| Weight            | 39 | 45     | 62    | 99    | 132   | 170   | 282   | 439   | 679   |

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