



ANSI 150# Cast Steel

# Flange End GLOBE VALVES



### Features

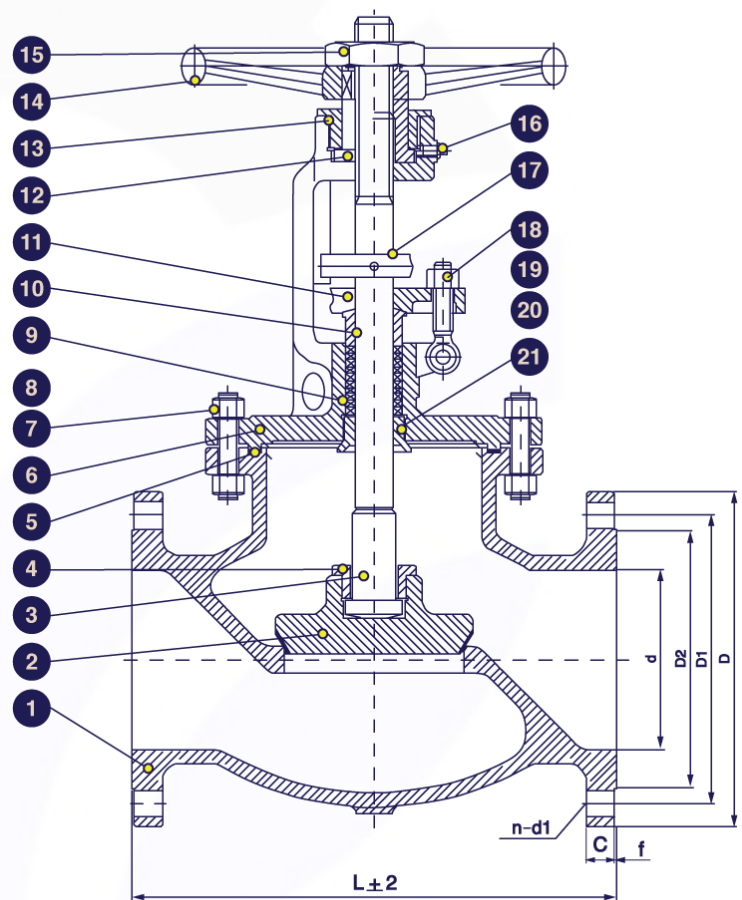
- ANSI 150# Flange Connection
- Size: 2" – 4" (DN50 – DN100)
- Valve Body Material: Cast Steel
- Working Pressure: 150#
- Applicable Medium: General oil, gas and water applications
- Temperature Range:  $\leq 425^{\circ}\text{C}$



ANSI 150# Cast Steel  
Flange End Globe Valves

### Material List

| No. | Part Name     | Material          |
|-----|---------------|-------------------|
| 1   | Body          | ASTM A216 WCB     |
| 2   | Disc          | ASTM A105 + 13%Cr |
| 3   | Stem          | ASTM A182 F6a     |
| 4   | Gland         | AISI 1035         |
| 5   | Gasket        | 304 + Graphite    |
| 6   | Bonnet        | ASTM A216 WCB     |
| 7   | Bolt          | ASTM A193 B7      |
| 8   | Nut           | ASTM A194 2H      |
| 9   | Packing       | Flexible Graphite |
| 10  | Gland         | ASTM A276 410     |
| 11  | Gland Flange  | ASTM A216 WCB     |
| 12  | Stem Nut      | D2                |
| 13  | Retaining Nut | AISI 1035         |
| 14  | Handwheel     | ASTM A216 WCB     |
| 15  | Lock Nut      | AISI 1020         |
| 16  | Nipple        | Assembly          |
| 17  | Plate         | ASTM A216 WCB     |
| 18  | Eye Bolt      | AISI 1035         |
| 19  | Pin           | Carbon Steel      |
| 20  | Nut           | ASTM A194 2H      |
| 21  | Back Seat     | ASTM A276 410     |



### Technical Specifications

1. Basic design and manufacture according to BS 1873
2. Face to face dimension: ASME B16.10
3. Flange End: ASME B16.5
4. Inspection and test: API 598

| Main Technical Parameter                    |                |                            |     |
|---|----------------|----------------------------|-----|
| Normal pressure                             |                | 150 PSI                    |     |
| Test pressure                               | Shell test     | 3.0                        | MPa |
|   | Back Seal test | 2.2                        |     |
|   | Seal test      | 2.2                        |     |
|   | Gas test       | 0.6                        |     |
| Max working temperature                     |                | $\leq 425^{\circ}\text{C}$ |     |
| Applicable Medium: General oil, gas & water |                |                            |     |

### Features

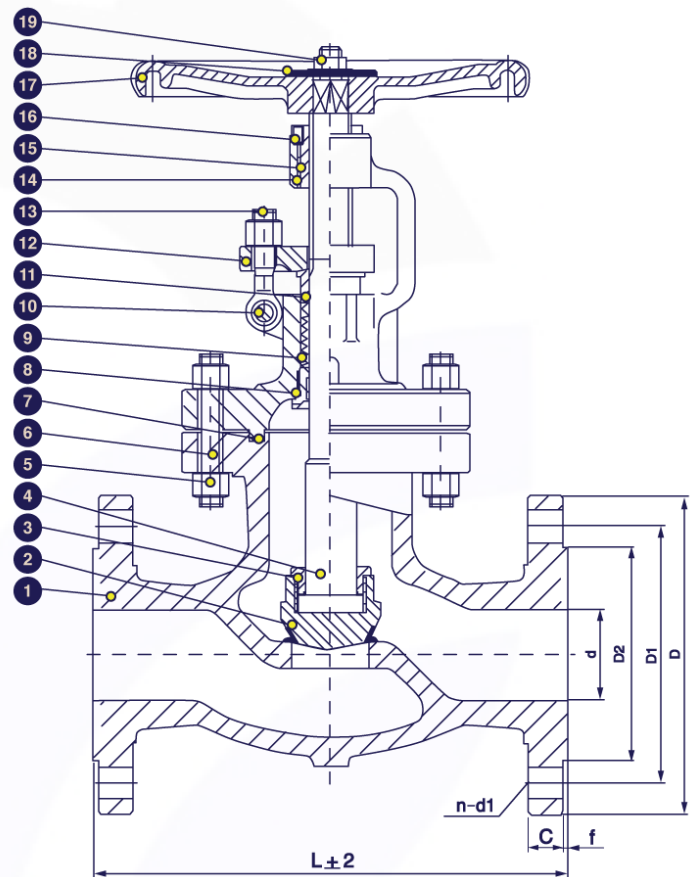
- ANSI 150# Flange Connection
- Size: 2 1/2" (DN65)
- Valve Body Material: Cast Steel
- Working Pressure: 150#
- Applicable Medium: General oil, gas and water applications
- Temperature Range:  $\leq 425^{\circ}\text{C}$



ANSI 150# Cast Steel  
Flange End Globe Valves

### Material List

| No. | Part Name     | Material             |
|-----|---------------|----------------------|
| 1   | Body          | ASTM A216 WCB +13%Cr |
| 2   | Disc          | ASTM A105 + 13%Cr    |
| 3   | Grand         | AISI 1035            |
| 4   | Stem          | ASTM A182 F6a        |
| 5   | Bolt          | ASTM A193 B7         |
| 6   | Nut           | ASTM A194 2H         |
| 7   | Gasket        | 304 + Graphite       |
| 8   | Backseat      | ASTM A276 410        |
| 9   | Packing       | Graphite             |
| 10  | Pin           | Carbon Steel         |
| 11  | Grand         | ASTM A276 410        |
| 12  | Packing Grand | ASTM A216 WCB        |
| 13  | Eye Bolt      | AISI 1035            |
| 14  | Bonnet        | ASTM A216 WCB        |
| 15  | Stem Nut      | D2                   |
| 16  | Screw         | AISI 1025            |
| 17  | Handwheel     | ASTM A216 WCB        |
| 18  | Gasket        | Carbon Steel         |
| 19  | Nut           | ASTM A194 2H         |



### Technical Specifications

1. Basic design and manufacture according to ASME B16.4 & BS 1873
2. Face to face dimension: ASME B16.10
3. Flange End: ASME B16.5
4. Inspection and test: API 598

| Main Technical Parameter                    |                |                            |     |
|---|----------------|----------------------------|-----|
| Normal pressure                             |                | 150 PSI                    |     |
| Test pressure                               | Shell test     | 3.0                        | MPa |
|   | Back Seal test | 2.2                        |     |
|   | Seal test      | 2.2                        |     |
|   | Gas test       | 0.6                        |     |
| Max working temperature                     |                | $\leq 425^{\circ}\text{C}$ |     |
| Applicable Medium: General oil, gas & water |                |                            |     |

### Ordering Information

|    |   |    |   |     |   |    |   |     |   |    |
|----|---|----|---|-----|---|----|---|-----|---|----|
| VL | - | CS | - | GL  | - | F  | - | 150 | - | 32 |
| I  |   | II |   | III |   | IV |   | V   |   | VI |

|          |                     |  |  |
|----------|---------------------|--|--|
| <b>I</b> | <b>Type of Item</b> |  |  |
| VL       | Low Pressure Valves |  |  |

|            |                      |     |                               |
|------------|----------------------|-----|-------------------------------|
| <b>III</b> | <b>Item</b>          |     |                               |
| GA         | Gate Valve           | B1  | 1 PC Ball Valve               |
| GL         | Globe Valve          | B2  | 2 PC Ball Valve               |
| YS         | Y-Strainer           | B3  | 3 PC Ball Valve               |
| SC         | Swing Check Valve    | BL  | 3 Way Ball Valve L Port       |
| VC         | Vertical Check Valve | BT  | 3 Way Ball Valve T Port       |
| WC         | Wafer Check Valve    | BMF | Male x Female Mini Ball Valve |
| DD         | Dual Disk            | BU  | Butterfly Valve               |

|           |                        |   |            |
|-----------|------------------------|---|------------|
| <b>IV</b> | <b>Connection Type</b> |   |            |
| SW        | S/W                    | G | BSPP       |
| BW        | B/W                    | N | NPT        |
| R         | BSPT                   | F | Flange End |
| W         | Wafer                  | L | Lug        |

|          |                 |      |                           |
|----------|-----------------|------|---------------------------|
| <b>V</b> | <b>Pressure</b> |      |                           |
| 200      | 200 PSI         | 2000 | 2000 PSI                  |
| 300      | 300 PSI         | 150  | ANSI 150# Flange Standard |
| 600      | 600 PSI         | 10K  | JIS 10K Flange Standard   |
| 800      | 800 PSI         | PN16 | PN 16 Flange Standard     |
| 1000     | 1000 PSI        |      |                           |

### For Inch OD & Inch NB Sizes

|           |             |        |       |        |      |      |      |    |
|-----------|-------------|--------|-------|--------|------|------|------|----|
| <b>VI</b> | <b>Size</b> |        |       |        |      |      |      |    |
| Size      | 1/8"        | 1/4"   | 5/16" | 3/8"   | 1/2" | 5/8" | 3/4" | 1" |
| Code      | 02          | 04     | 05    | 06     | 08   | 10   | 12   | 16 |
| Size      | 1 1/4"      | 1 1/2" | 2"    | 2 1/2" | 3"   | 4"   | 5"   | 6" |
| Code      | 20          | 24     | 32    | 40     | 48   | 64   | 80   | 96 |

|            |                       |  |  |
|------------|-----------------------|--|--|
| <b>VII</b> | <b>Coating</b>        |  |  |
| (None)     | No Additional Coating |  |  |
| NI         | Nickel Plating        |  |  |

## Dimension List

### DN50 – DN100

| NPS | Part No           | d   | L   | D   | D1    | D2   | n – d1 | C    | f | Weight (Kg) |
|-----|-------------------|-----|-----|-----|-------|------|--------|------|---|-------------|
| 2"  | VL-CS-GL-F-150-32 | 51  | 203 | 152 | 120.7 | 92.1 | 4-Ø19  | 17.5 | 2 | 17.50       |
| 3"  | VL-CS-GL-F-150-48 | 76  | 241 | 190 | 152.4 | 127  | 4-Ø19  | 22.3 | 2 | 30.00       |
| 4"  | VL-CS-GL-F-150-64 | 102 | 292 | 230 | 190.5 | 157  | 8-Ø19  | 22.3 | 2 | 43.50       |

### DN65

| NPS    | Part No           | d  | L   | D   | D1    | D2    | n – d1 | C    | f | Weight (Kg) |
|--------|-------------------|----|-----|-----|-------|-------|--------|------|---|-------------|
| 2 1/2" | VL-CS-GL-F-150-40 | 65 | 216 | 180 | 139.7 | 104.8 | 4-Ø19  | 15.9 | 2 | 22.50       |

## Part Number Reference

| Part No           | Description   |
|-------------------|---|
| VL-CS-GL-F-150-32 | 2" 150# CS FLANGE END GLOBE VALVE RF, RISING STEM, SS410 STEM     |
| VL-CS-GL-F-150-40 | 2 1/2" 150# CS FLANGE END GLOBE VALVE RF, RISING STEM, SS410 STEM |
| VL-CS-GL-F-150-48 | 3" 150# CS FLANGE END GLOBE VALVE RF, RISING STEM, SS410 STEM     |
| VL-CS-GL-F-150-64 | 4" 150# CS FLANGE END GLOBE VALVE RF, RISING STEM, SS410 STEM     |



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