

# BRONZE GLOBE VALVE PN16

Straight Pattern Globe Valve · Flanged Ends, Undrilled · VZo Fig. 104

BRAND: VZo

SKU: SW-0363

SIZE 1/2" TO 4"

PN16 / FIG. 104



FIG. 1 | BRONZE GLOBE VALVE PN16 UNDRILLED, VZo

## PRODUCT OVERVIEW

The VZo Bronze Globe Valve uses a moving disc seating against a stationary ring in the body, which makes it suitable for regulating flow as well as for shut-off. Flow turns through the body, so the pressure drop is higher than a gate valve, but throttling does not damage the seat.

Body, bonnet and disc are cast in bronze to BS 1400 LG2 with a high tensile brass stem and PTFE gland packing. From 32 mm upward the disc is retained by a separate disc nut. Flange faces are machined to PN16 dimensions and supplied undrilled so the drilling can be matched on site or to order.

|                 |                                           |
|-----------------|-------------------------------------------|
| Valve type      | Globe valve, straight pattern             |
| Operation       | Manual, handwheel, regulating or shut-off |
| Body material   | Bronze, BS 1400 LG2                       |
| End connection  | Flanged, PN16 face, undrilled             |
| Pressure rating | PN16, 16 bar                              |
| Size range      | 1/2" to 4" (DN15 to DN100)                |

## TECHNICAL SPECIFICATION

|                 |                             |                       |                                           |
|-----------------|-----------------------------|-----------------------|-------------------------------------------|
| Brand           | VZo                         | Gland packing         | PTFE                                      |
| Figure number   | 104                         | Handwheel             | Cast iron or aluminium, IS 210 Gr. FG 200 |
| Body and bonnet | Bronze, BS 1400 LG2         | Max. working pressure | 16 bar (232 psi)                          |
| Disc            | Bronze, BS 1400 LG2         | Shell test            | 24 bar hydraulic                          |
| Stem            | High tensile brass, FLB     | Seat test             | 16 bar hydraulic                          |
| Disc retention  | Disc nut fitted above 25 mm | Flange drilling       | Undrilled as supplied                     |

## MANUFACTURER



BRAND MARK AS CAST OR PRINTED ON THE PRODUCT

|                 |                                     |
|-----------------|-------------------------------------|
| Brand           | VZo, The Valves Zone                |
| Body material   | Bronze, BS 1400 LG2 / B62           |
| Flange standard | PN16 face, supplied undrilled       |
| Product range   | Bronze flanged valves and strainers |



## PRODUCT DATA SHEET

BRONZE GLOBE VALVE PN16

Ref. SW-0363 | Rev. 01

### BILL OF MATERIALS

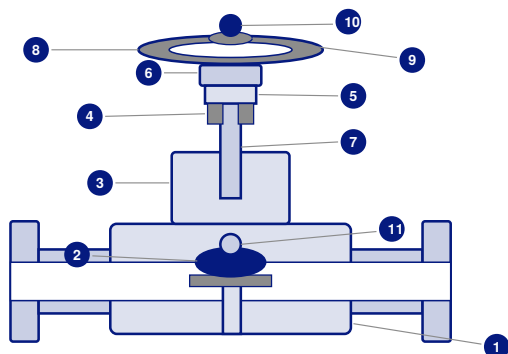


FIG. 2 | SECTIONAL ARRANGEMENT

| #  | COMPONENT     | MATERIAL                |
|----|---------------|-------------------------|
| 1  | Body          | Bronze, BS 1400 LG2     |
| 2  | Disc          | Bronze, BS 1400 LG2     |
| 3  | Bonnet        | Bronze, BS 1400 LG2     |
| 4  | Gland packing | PTFE                    |
| 5  | Gland bush    | Bronze, BS 1400 LG2     |
| 6  | Gland nut     | Bronze, BS 1400 LG2     |
| 7  | Stem          | High tensile brass, FLB |
| 8  | Handwheel     | Cast iron or aluminium  |
| 9  | Washer        | Mild steel              |
| 10 | Bolt          | Mild steel              |
| 11 | Disc nut      | Bronze, BS 1400 LG2     |

One off each part per valve. Item 11, the disc nut, is fitted on sizes above 25 mm. Materials are as published on the VZo factory drawing. Handwheel material varies with size and production batch.

### DIMENSIONS

| SIZE   | DN  | L (MM) | ØW (MM) | H (MM) | ØD (MM) | T (MM) | K (MM) | N | ØD (MM) |
|--------|-----|--------|---------|--------|---------|--------|--------|---|---------|
| 1/2"   | 15  | 75     | 60      | 94     | 95      | 6      | 65     | 4 | 14      |
| 3/4"   | 20  | 85     | 60      | 105    | 105     | 6      | 75     | 4 | 14      |
| 1"     | 25  | 95     | 66      | 120    | 115     | 8      | 85     | 4 | 14      |
| 1.1/4" | 32  | 110    | 76      | 122    | 140     | 8      | 100    | 4 | 18      |
| 1.1/2" | 40  | 120    | 86      | 132    | 150     | 9      | 110    | 4 | 18      |
| 2"     | 50  | 145    | 96      | 155    | 165     | 11     | 125    | 4 | 18      |
| 2.1/2" | 65  | 165    | 111     | 183    | 185     | 13     | 145    | 4 | 18      |
| 3"     | 80  | 185    | 130     | 195    | 200     | 13     | 160    | 8 | 18      |
| 4"     | 100 | 216    | 160     | 232    | 220     | 16     | 180    | 8 | 18      |

L = face to face length. ØW = handwheel diameter, H = overall height with the valve fully open, ØD = flange outside diameter, T = flange thickness. K, n and Ød are the PN16 drilling reference only: valves are supplied with undrilled flange faces so the drilling can be matched on site. Dimensions are taken from the VZo factory drawing and carry the manufacturer's tolerances. H is approximate. Weights are not published and are available on request.

### ORDERING INFORMATION

| FIELD         | OPTIONS                                                                  |
|---------------|--------------------------------------------------------------------------|
| Product code  | SW-0363                                                                  |
| Size          | 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"                       |
| Flange        | PN16 face, undrilled. PN16, CL150, JIS 5K or JIS 10K drilling on request |
| Body          | Bronze, BS 1400 LG2                                                      |
| Brand         | VZo, Fig. 104                                                            |
| Order example | <b>SW-0363 / 2" / PN16 UNDRILLED / VZo</b>                               |

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.



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Ref. SW-0363 | Rev. 01

### PRESSURE AND TEMPERATURE

|                       |                                   |
|-----------------------|-----------------------------------|
| Nominal pressure      | <b>PN16</b>                       |
| Max. working pressure | <b>16 bar (232 psi)</b>           |
| Shell test, hydraulic | <b>24 bar</b>                     |
| Seat test, hydraulic  | <b>16 bar</b>                     |
| Flange face           | <b>PN16 dimensions, undrilled</b> |

Test pressures are the manufacturer's published hydraulic figures. SWBM lists this bronze range for -10°C to +180°C, but no temperature rating is stated on the VZo drawing, so confirm the duty with SWBM before specifying at elevated temperature.

### TYPICAL APPLICATIONS

- Flow regulation on water supply and distribution lines
- Marine and shipboard service systems
- Chemical process and dosing lines
- HVAC and chilled water balancing duty
- Boiler feed and condensate service
- General industrial and utility piping

### COMPLIANCE AND QUALITY

- Body, bonnet and internals in bronze to BS 1400 LG2 / B62
- Stem in high tensile brass
- PTFE gland packing, re-tightenable in service
- Flange faces to PN16 dimensions, supplied undrilled
- Hydraulic shell test at 24 bar, seat test at 16 bar
- Drilling to PN16, CL150, JIS 5K or JIS 10K on request
- Material test certificate EN 10204 3.1 on request

### INSTALLATION AND OPERATION

- Flush the line thoroughly before installation to clear weld slag, sand and debris
- Drill the flanges to the required standard before the valve is fitted
- Install with flow entering under the disc unless the duty requires otherwise
- Use full face gaskets and tighten flange bolts evenly in a diagonal sequence
- Close by hand only, do not extend the handwheel with a bar
- Re-tighten the gland nut lightly if weeping appears at the stem

#### COMPANY

**Sunel Wala Building Materials**  
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#### SALES ENQUIRIES

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Brand: VZo

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