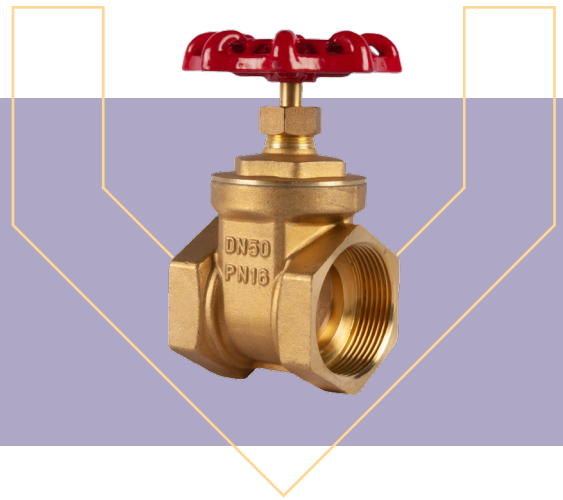


# Brass Gate Valve Non-Rising Stem

**Weights:** 250g - 6kg  
**Sizes:** DN 15 – 100  
**Class:** 125  
**Pressure:** PN14  
**Temperatures:** -2°C to 120°C



## Application

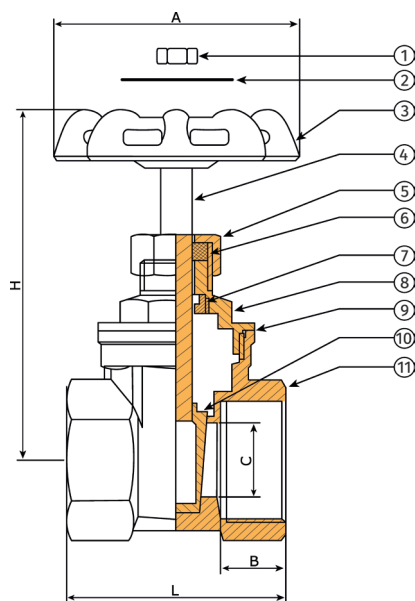
The Brass Gate Valve Non-Rising Stem is known for its reliability, longevity, and ease of operation, and is used in plumbing and industrial applications to control and isolate the flow of fluids. The cast iron handwheel offers positive shutoff, and the screw-in bonnet ensures a durable, pressure-tight seal due to the BSP screwed ends. The female/female ends also allows for ease of installation in irrigation pipelines.

Due to the durable and corrosion-resistant brass, a solid wedge, integral seats and bi-directional services, the gate valve makes for a perfect choice for water, oils and gas services. Unlike a rising stem valve, the non-rising stem remains stationary while the gate inside the valve moves vertically to control the flow, so it doesn't require additional vertical clearance for stem movement. This reduces the risk of damage or interference in compact spaces or areas with limited accessibility.

## Dimensions

| NPS   | DN  | A   | B  | C  | H   | L   | Grams |
|-------|-----|-----|----|----|-----|-----|-------|
| 1/2   | 15  | 55  | 12 | 14 | 70  | 41  | 245   |
| 3/4   | 20  | 55  | 13 | 15 | 72  | 43  | 290   |
| 1     | 25  | 60  | 14 | 19 | 83  | 48  | 410   |
| 1 1/4 | 32  | 70  | 14 | 27 | 105 | 59  | 710   |
| 1 1/2 | 40  | 70  | 15 | 35 | 115 | 60  | 860   |
| 2     | 50  | 80  | 18 | 45 | 130 | 67  | 1,300 |
| 2 1/2 | 65  | 100 | 22 | 60 | 185 | 81  | 2,600 |
| 3     | 80  | 110 | 25 | 75 | 200 | 98  | 3,920 |
| 4     | 100 | 140 | 26 | 90 | 245 | 102 | 6,100 |

## Diagram



| #  | Part        | Material      |
|----|-------------|---------------|
| 1  | Nut         | SS304         |
| 2  | Nameplate   | Aluminium     |
| 3  | Handwheel   | Cast Iron     |
| 4  | Stem        | Brass Hpb57-3 |
| 5  | Lock Nut    | Brass Hpb57-3 |
| 6  | Packing     | PTFE          |
| 7  | Locking Cap | Brass Hpb57-3 |
| 8  | Bonnet      | Brass Hpb57-3 |
| 9  | Seal Ring   | PTFE          |
| 10 | Wedge       | Brass Hpb57-3 |
| 11 | Body        | Brass Hpb57-3 |

## Specifications

### Models

201

### Body Material

Brass Hpb57-3

### Stem Operation

Non-Rising

### Standards

BSP-G Screwed

### Threading

Female / Female

### Services

Water, Oil, Gas, Steam

### Industries

Agriculture, Irrigation, Water Oil, Gas Services

### Priority Media

Butane Gas, Butyl Acetate, Wet Carbon Dioxide, Carbon Monoxide, Caustic Soda, Diesel Fuel, Ethanol, Hydrogen Gas, Freon Gas, Leaded and Unleaded Gasoline, Lubricants, Oxygen, Paraffin, Potable Water, Propane Gas

### Inventory Code and Description

BRGATEN201  
 BRASS GATE VALVE SCR BSP  
 Brass Gate Valve Cast Iron Handwheel  
 Screw Gate British Standard

BRGATEA201015  
 BRASS GATE VALVE SCR BSP  
 Brass Gate Valve Aluminium Alloy  
 Handwheel Screw Gate British Standard

### Also Known As:

Sluice Valve, Shut-off Valves, Water Gate Valves

# Gate Valves

|                       |                                       |
|-----------------------|---------------------------------------|
| <b>Models:</b>        | VT84N ; VT84 ; VT68N ; VT68 ; 201     |
| <b>Class:</b>         | 150 ; 125                             |
| <b>Sizes:</b>         | DN 50 – 600 ; DN 15 - 100             |
| <b>Pressure:</b>      | PN16; PN40                            |
| <b>Body Material:</b> | Ductile Iron ; Cast Iron ; Brass      |
| <b>Temperatures:</b>  | -10°C to 400°C ; -2°C to 120°C 14kg - |
| <b>Weights:</b>       | 870kg ; 250g - 6kg                    |



## Specifications

### Services

Petrochemicals and Petroleum, Refineries, Primary Energy, Agriculture, Water Works, HVAC

### Industries

Water, Oil, Gas, Steam

### Priority Media

Acetylene, Borax, Butane Gas, Carbon Dioxide, Castor Oil, Caustic Soda, Detergents, Diesel Fuels, Hydraulic Oil, Linseed Oil, Nitrogen, Propane Gas, Steam, Tributyl Phosphate

### Also Known As:

Insider Screw Valve (Non-Rising)  
Outside Screw and Yolk (OS+Y; Rising)  
Rotational Stem Design Gate Valve  
Non-Rising Stem Wedge Gate Valve  
Rising Stem Wedge Gate Valve  
Sluice Valve

## Gate Valve Details

A Gate Valve is used in On/Off applications that do not require throttling. Due to their heavy-duty design and casting, they can handle high temperatures and are durable under constant, lower pressures while media is able to flow in both directions.

## Application

When fully opened, the Gate Valve wedge disc is completely removed from the space within the valve, removing all resistance to the flow of media resulting in little pressure drop. Because there is the absence of any valve components within the tunnel when it is fully opened, high-viscosity slurries such as pulp and mining solids or sludge can travel through without obstruction, preventing blockages.

When the valve is fully closed, the disk-to-seal ring surface creates a 360° contact, which enables good sealing via the wedge. This means that very little or no leakage occurs across the disk, no matter the volume of media or the pressure behind it and the media can flow in both directions.

### Typical applications of Gate Valves include:

- **Isolation and Shutoff** in pipelines carrying fluids or gases as their design allows for a tight seal when fully closed, effectively stopping the flow of the medium through the pipeline
- **High-Pressure Systems** due to their sturdy construction and ability to provide a tight seal, making them suitable for use in pipelines where the pressure requirements are significant
- **On/Off Flow Control** as opposed to throttling as their primary strength lies in their ability to provide full flow or complete shutoff

### Advantages:

- **Unchanged dimensions** when open or closed, so the installation space is smaller if a Non-Rising Stem is used. A Rising Stem makes it easy to identify from a distance as to whether the valve is open or closed
- **High-temperature resistance** enables the valve to withstand elevated temperatures without significant degradation, warping or deterioration
- **Cheap and easy maintenance** due to their simplicity in design, making them one of the most common valves for industrial applications
- **Versatility in applications** provides for a wide range of fluids, including liquids, gases, and slurries making them suitable for every industry
- **Low pressure drop** and full flow provide a straight-through, unobstructed flow path when fully open, minimising pressure drop allowing for efficient and high-capacity fluid flow

### Common Industry Uses:

- Underground piping or buried installations
- Clean liquid and gasses, and Heating and Conditioning (HVAC)
- Potable water applications
- Wastewater, water treatment, and distribution systems
- Corrosive mediums such as diesel, petroleum and acids