

# Victaulic® Brass Body Ball Valve

## Series 722



### 1.0 PRODUCT DESCRIPTION

#### Available Sizes

- ¼ – 2"/DN8 – DN50

#### Maximum Working Pressure

- See section 5.0 for pressure ratings

#### Operating Temperature Range

- -4°F to +250°F/-20°C to +121°C
- Maximum temperature for dry saturated steam: +365°F/+185°C

#### Function

- Standard port, female NPT threaded end valve for on/off service
- Standard port, female BSPT threaded end valve for on/off service (CCCf approved valve only)

### 2.0 CERTIFICATION/LISTINGS



#### NOTE

- Download [publication 10.01](#) for Fire Protection Certifications/Listings Reference Guide.

### 3.0 SPECIFICATIONS – MATERIAL

#### Series 722 Brass Body Ball Valve

**Body:** Forged brass, per ASTM B124

**Ball:** Brass, chrome plated, per ASTM B124

**Stem:** Brass, per ASTM B124

**Seat:** Polytetrafluoroethylene (PTFE)

**Handle:** Carbon steel, zinc plated, with vinyl grip

**Stem Nut:** Carbon steel, zinc plated

**Stem Washer:** Polytetrafluoroethylene (PTFE)

**O-Ring:** Fluoroelastomer.

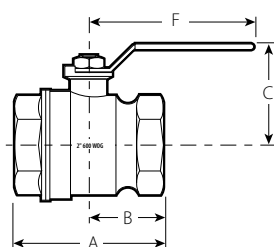
ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

|              |  |          |  |
|--------------|--|----------|--|
| System No.   |  | Location |  |
| Submitted By |  | Date     |  |

|              |  |           |  |
|--------------|--|-----------|--|
| Spec Section |  | Paragraph |  |
| Approved     |  | Date      |  |

## 4.0 DIMENSIONS

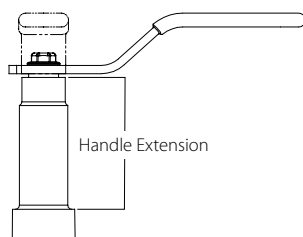
### Series 722 Brass Body Ball Valve



| Size                    |                                              | Dimensions        |                   |                   |                   | Weight                            |
|-------------------------|----------------------------------------------|-------------------|-------------------|-------------------|-------------------|-----------------------------------|
| Nominal<br>inches<br>DN | Nominal<br>Actual<br>Outside<br>inches<br>mm | A<br>inches<br>mm | B<br>inches<br>mm | C<br>inches<br>mm | F<br>inches<br>mm | Approximate<br>(Each)<br>lb<br>kg |
| 1/4<br>DN8              | 0.540<br>13.7                                | 1.54<br>39        | 0.77<br>20        | 1.03<br>26        | 1.65<br>42        | 0.2<br>0.1                        |
| 3/8<br>DN10             | 0.675<br>17.1                                | 1.77<br>45        | 0.88<br>22        | 1.28<br>33        | 3.07<br>78        | 0.3<br>0.1                        |
| 1/2<br>DN15             | 0.840<br>21.3                                | 2.13<br>54        | 1.06<br>27        | 1.33<br>34        | 3.07<br>78        | 0.4<br>0.2                        |
| 3/4<br>DN20             | 1.050<br>26.9                                | 2.44<br>62        | 1.22<br>31        | 1.79<br>45        | 3.78<br>96        | 0.7<br>0.3                        |
| 1<br>DN25               | 1.315<br>33.7                                | 2.95<br>75        | 1.48<br>37        | 1.95<br>50        | 3.78<br>96        | 1.0<br>0.5                        |
| 1 1/4<br>DN32           | 1.660<br>42.4                                | 3.31<br>84        | 1.65<br>42        | 2.17<br>55        | 3.78<br>96        | 1.5<br>0.7                        |
| 1 1/2<br>DN40           | 1.900<br>48.3                                | 3.66<br>93        | 1.83<br>46        | 2.68<br>68        | 5.43<br>138       | 2.1<br>1.0                        |
| 2<br>DN50               | 2.375<br>60.3                                | 4.21<br>107       | 2.11<br>53        | 2.89<br>73        | 5.43<br>138       | 2.4<br>1.1                        |

## 4.1 OPTIONAL PART

### Handle Extension (Optional)



| Valve Inlet Size | 2" Handle Extension |
|------------------|---------------------|
|                  | Victaulic Part Code |
| 3/8 - 1/2"       | P0047222XT          |
| 3/4 - 1 1/4"     | P0067222XT          |
| 1 1/2 - 2"       | P0147222XT          |

## 5.0 PERFORMANCE

### Maximum Working Pressure (At +68°F/+20°C)

- ¼ – ¾"/DN8 – DN20: 600 psi/4138 kPa/41 bar
- 1 – 2"/DN25 – DN50: 500 psi/3448 kPa/34 bar
- ½ – 2"/DN15 – DN50: UL Listed at 175 psi/1207 kPa/12 bar
- ½ – ¾"/DN15 – DN20: FM Approved at 600 psi/4138 kPa/41 bar
- 1 – 2"/DN25 – DN50: FM Approved at 500 psi/3448 kPa/34 bar
- ½ – 2"/DN15 – DN50: CCCf Approved at 365 psi/2517 kPa/25 bar

## 5.1 PERFORMANCE

### C<sub>v</sub>/K<sub>v</sub> Values:

C<sub>v</sub>/K<sub>v</sub> values for flow of water at 60°F/16°C are shown in the table below.  
For additional details contact Victaulic.

### Formulas for C<sub>v</sub> and K<sub>v</sub> values

$$\Delta P = \frac{Q^2}{C_v^2}$$

$$Q = C_v \times \sqrt{\Delta P}$$

#### Where:

Q = Flow (GPM)

ΔP = Pressure Drop (psi)

C<sub>v</sub> = Flow Coefficient

$$\Delta P = \frac{Q^2}{K_v^2}$$

$$Q = K_v \times \sqrt{\Delta P}$$

#### Where:

Q = Flow (m<sup>3</sup>/hr)

ΔP = Pressure Drop (Bar)

K<sub>v</sub> = Flow Coefficient

| Size                    |                                               | Flow                                          |
|-------------------------|-----------------------------------------------|-----------------------------------------------|
| Nominal<br>inches<br>DN | Actual<br>Outside<br>Diameter<br>inches<br>mm | Full Open<br>C <sub>v</sub><br>K <sub>v</sub> |
| ¼<br>DN8                | 0.540<br>13.7                                 | 7.0<br>6.0                                    |
| ⅜<br>DN10               | 0.675<br>17.1                                 | 7.0<br>6.0                                    |
| ½<br>DN15               | 0.840<br>21.3                                 | 10.0<br>8.6                                   |
| ¾<br>DN20               | 1.050<br>26.9                                 | 25.0<br>21.4                                  |
| 1<br>DN25               | 1.315<br>33.7                                 | 37.0<br>31.7                                  |
| 1 ¼<br>DN32             | 1.660<br>42.4                                 | 50.0<br>42.8                                  |
| 1 ½<br>DN40             | 1.900<br>48.3                                 | 87.0<br>74.6                                  |
| 2<br>DN50               | 2.375<br>60.3                                 | 110.0<br>94.3                                 |

6.0 NOTIFICATIONS



 **WARNING**

- Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Wear safety glasses, hardhat, and foot protection.

Failure to follow these instructions could result in death or serious personal injury and property damage.

7.0 REFERENCE MATERIALS

[I-100: Victaulic Field Installation Handbook](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, and the applicable building codes and related regulations as well as Victaulic performance, maintenance, safety, and warning instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, installation guide, or this disclaimer.

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Note

This product shall be manufactured by Victaulic or to Victaulic specifications. Victaulic recommends all products to be installed in accordance with current IMI TA installation/assembly instructions. Victaulic and IMI TA reserve the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

Installation

Reference should always be made to the current IMI TA installation/assembly instructions for the product you are installing. For coupling and strainer installation, reference should always be made to the [I-100 Victaulic Field Installation Handbook](#) for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at [www.victaulic.com](#)

Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

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