# Victaulic® Brass Body Ball Valve Series 722





### 1.0 PRODUCT DESCRIPTION

#### **Available Sizes**

• 1/4 - 2"/DN8 - DN50

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

- $\frac{1}{4} \frac{3}{4}$ "/DN8 DN20: 600 psi/4137 kPa/41 bar
- 1 2"/DN25 DN50: 500 psi/3447 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/4137 kPa/41 bar
- 1 2"/DN25 DN50: FM Approved at 500 psi/3447 kPa/34 bar

### **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 threaded end valve for on/off service.

#### 2.0 CERTIFICATION/LISTINGS





#### NOTE

• Download <u>publication 10.01</u> for Fire Protection Certifications/Listings Reference Guide.

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	

### 3.0 SPECIFICATIONS - MATERIAL

Series 722 Brass Body Ball Valve Body: Forged brass, per ASTM B16

Ball: Brass, chrome plated, per ASTM B16

**Stem:** Brass, per ASTM B16 **Seat:** Tetrafluoroethylene (TFE)

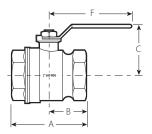
Handle: Carbon steel, zinc plated, with vinyl grip

**Stem Nut:** Carbon steel, zinc plated **Stem Washer:** Tetrafluoroethylene (TFE)

**O-Ring:** Fluoroelastomer

### 4.0 DIMENSIONS

### Series 722 Brass Body Ball Valve



S	Size	Dimensions			Weight	
Nominal	Nominal Actual Outside	A	В	С	F	Approximate (Each)
inches	inches	inches	inches	inches	inches	lb
DN	mm	mm	mm	mm	mm	kg
1/4	0.540	1.54	0.77	1.03	1.65	0.2
DN8	13.7	39	20	26	42	0.1
3/8	0.675	1.77	0.88	1.28	3.07	0.3
DN10	17.1	45	22	33	78	0.1
1/2	0.840	2.13	1.06	1.33	3.07	0.4
DN15	21.3	54	27	34	78	0.2
3/4	1.050	2.44	1.22	1.79	3.78	0.7
DN20	26.9	62	31	45	96	0.3
1	1.315	2.95	1.48	1.95	3.78	1.0
DN25	33.7	75	37	50	96	0.5
1 1/4	1.660	3.31	1.65	2.17	3.78	1.5
DN32	42.4	84	42	55	96	0.7
1 ½	1.900	3.66	1.83	2.68	5.43	2.1
DN40	48.3	93	46	68	138	1.0
2	2.375	4.21	2.11	2.89	5.43	2.4
DN50	60.3	107	53	73	138	1.1

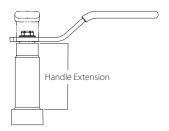
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### **4.1 OPTIONAL PART**

### **Handle Extension (Optional)**



	2" Handle Extension	
Valve Inlet Size	Victaulic Part Code	
3/8 - 1/2"	P0047222XT	
3/4 - 1 1/4"	P0067222XT	
1½ – 2"	P0147222XT	

### 5.0 PERFORMANCE

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

 $\rm C_v/K_v$  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:  

$$Q = Flow (GPM)$$
  
 $\Delta P = Pressure Drop (psi)$   
 $C_v = Flow Coefficient$ 

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

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

Q = Flow (m³/hr) ΔP = Pressure Drop (Bar) K = Flow Coefficient

Si	Size		
Nominal	Actual Outside Diameter		
inches	inches	Cv	
DN	mm	Κν	
1/4	0.540	7.0	
DN8	13.7	6.1	
3/8	0.675	7.0	
DN10	17.1	6.1	
1/2	0.840	10.0	
DN15	21.3	8.7	
3/4	1.050	25.0	
DN20	26.9	21.6	
1	1.315	37.0	
DN25	33.7	32.0	
1 1/4	1.660	50.0	
DN32	42.4	43.3	
1 ½	1.900	87.0	
DN40	48.3	75.3	
2	2.375	110.0	
DN50	60.3	95.2	



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#### 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 <u>I-100 Victaulic Field Installation Handbook</u> 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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