# Victaulic® Brass Body Ball Valve Series 722L





#### 1.0 PRODUCT DESCRIPTION

#### **Available Sizes**

• ½ - 2"/DN8 - DN50

#### Maximum Working Pressure (At Room Temperature)

- ¼ 1 ¼ DN8 DN32: 600 psi/4137 kPa/41 bar
- 1 ½"/DN40: 500 psi/3447 kPa/34 bar
- 2"/DN50: 350 psi/2413 kPa/24 bar

## **Operating Temperature Range**

• 0°F to +180°/-18°C to +82°C

#### **Function**

• Full port, female threaded end valve for on/off service in potable water systems.

#### 2.0 CERTIFICATION/LISTINGS



NSF Certified in accordance with ANSI/NSF 61 for cold +73°F/+23°C and hot +140°F/+60°C potable water service and ANSI/NSF 372.

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 722L Brass Body Ball Valve Body: Forged brass, per CW 509L.

**Ball:** Brass, chrome plated, per CW 510L. **Stem:** Brass, chrome plated, per CW 510L.

**Seat:** Polytetrafluoroethylene (PTFE).

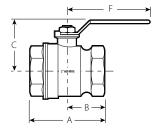
Stem Seal: Double O-rings rubber and PTFE friction ring.

Handle: Low carbon steel, zinc or cadmium plated, with vinyl grip.

Handle Hex Nut: Carbon steel, zinc plated.

#### 4.0 DIMENSIONS

## Series 722L Brass Body Ball Valve



S	iize		Dime	nsions		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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## 5.0 PERFORMANCE

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

 $C_v/K_v$  values for flow of water at  $60^{\circ}F/16^{\circ}C$  are shown in the table below. For additional details contact Victaulic.

## Formulas for $C_{\nu}$ and $K_{\nu}$ 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

$$\Delta P = \frac{Q^2}{K_{\nu}^2}$$

$$Q = K_{\nu} \times \sqrt{\Delta P}$$

Where:  

$$Q = Flow (m^3/hr)$$
  
 $\Delta P = Pressure Drop (Bar)$   
 $K_v = Flow Coefficient$ 

Si	Flow	
Nominal	Actual Outside Diameter	
inches	inches	Cv
DN	mm	Κν
1/4	0.540	7.7
DN8	13.7	6.7
3/8	0.675	7.8
DN10	17.1	6.7
1/2	0.840	14.7
DN15	21.3	12.7
3/4	1.050	28.5
DN20	26.9	24.7
1	1.315	56.3
DN25	33.7	48.7
1 1/4	1.660	114.0
DN32	42.4	98.6
1 ½	1.900	162.0
DN40	48.3	140.1
2	2.375	245.0
DN50	60.3	211.9



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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 I-100 Victaulic Field Installation Handbook for the product you are installating. 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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