

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.

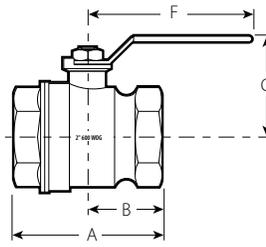
ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	

4.0 DIMENSIONS

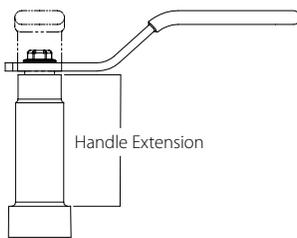
Series 722 Brass Body Ball Valve



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

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_v and K_v 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_v = Flow Coefficient

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

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

Where:

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

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