

Stainless Steel Ball Valve

Series 726S



Series 726S

1.0 PRODUCT DESCRIPTION

Available Sizes

- 1 ½ – 6"/DN40 – DN150

Pressure Class

- Up to 1000 psi/6895 kPa

Application

- Two piece, end-entry valve featuring a floating ball design
- The valve is offered with manual handles with integral/tamper resistant lock/seal and gear operators. A full range of power actuators can be mounted
- Intended for use in full on open or shut-off service; throttling is not recommended with standard ball valves

2.0 CERTIFICATION/LISTINGS



- NACE compliant

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 726S Stainless Steel Ball Valve

Body and End Cap:

Stainless steel, CF8M.

Ball:

316 stainless steel.

Seats:

(TFE) Tetrafluoroethylene.

Seals:

Fluoroelastomer.

Operators: (specify choice)

1 ½ – 3"/DN40 – DN80: Carbon steel, zinc plated. Plastic grip.

4 – 6"/DN100 – DN150: Carbon steel, enamel paint.

Gear Operator: (specify choice)

Manual with hand wheel.

Optional: Stainless steel.

Operator Bracket:

Hot rolled steel, black enamel coated.

Bracket Bolts/Washers:

Cold rolled steel, zinc plated.

Power Actuators:

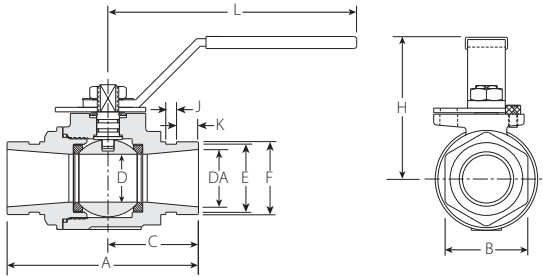
Electric, pneumatic, hydraulic.

Integral Locking Device Components:

Stamped carbon steel, zinc plated.

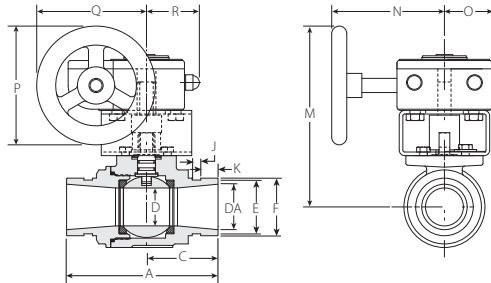
4.0 DIMENSIONS

Series 726S with Standard Handle 1 1/2 – 3"/DN40 – DN80



Size		Dimensions											Weight
Nominal inches DN	Actual Outside Diameter inches mm	A inches mm	B inches mm	C inches mm	D inches mm	DA inches mm	E inches mm	F inches mm	H inches mm	J inches mm	K inches mm	L inches mm	Approx. (Each) lb kg
1 1/2 DN40	1.900 48.3	5.12 130	2.00 51	2.36 60	1.25 32	1.50 38	1.78 45	1.90 48	3.00 76	0.28 7	0.56 14	6.97 177	4.8 2.2
2 DN50	2.375 60.3	5.50 140	2.64 67	2.48 63	1.50 38	2.00 51	2.25 57	2.38 60	3.31 84	0.34 9	0.56 14	6.97 177	7.5 3.4
2 1/2	2.875 73.0	6.25 159	3.03 77	2.80 71	1.97 50	2.50 64	2.72 69	2.88 73	4.00 102	0.34 9	0.56 14	9.84 250	11.6 5.3
3 DN80	3.500 88.9	6.56 167	3.50 89	3.15 80	2.50 64	3.00 76	3.34 85	3.50 89	4.53 115	0.34 9	0.56 14	9.84 250	17.2 7.8

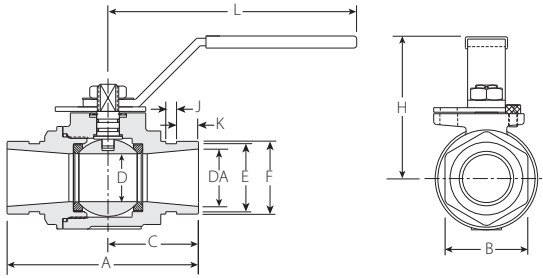
Series 726S with Gear Operator 1 1/2 – 3"/DN40 – DN80



Size		Dimensions														Weight
Nominal inches DN	Actual Outside Diameter inches mm	A inches mm	C inches mm	D inches mm	DA inches mm	E inches mm	F inches mm	J inches mm	K inches mm	M inches mm	N inches mm	O inches mm	P inches mm	Q inches mm	R inches mm	Approx. (Each) lb kg
1 1/2 DN40	1.900 48.3	5.12 130	2.36 60	1.25 32	1.50 38	1.78 45	1.90 48	0.28 7	0.56 14	6.03 153	4.29 109	1.58 40	3.94 100	2.64 92	1.75 44	7.5 3.4
2 DN50	2.375 60.3	5.50 140	2.48 63	1.50 38	2.00 51	2.25 57	2.38 60	0.34 9	0.56 14	6.30 160	4.29 109	1.58 40	3.94 100	2.64 92	1.75 44	10.1 4.6
2 1/2	2.875 73.0	6.25 159	2.80 71	1.97 50	2.50 64	2.72 69	2.88 73	0.34 9	0.56 14	7.43 189	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	15.4 7.0
3 DN80	3.500 88.9	6.56 167	3.15 80	2.50 64	3.00 76	3.34 85	3.50 89	0.34 9	0.56 14	7.94 202	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	21.2 9.6

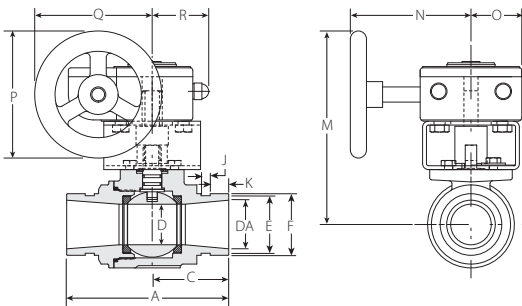
4.0 DIMENSIONS (CONTINUED)

Series 726S with Standard Handle
4 – 6"/DN100 – DN150



Size		Dimensions										Weight
Nominal inches DN	Actual Outside Diameter inches mm	A inches mm	C inches mm	D inches mm	DA inches mm	E inches mm	F inches mm	H inches mm	J inches mm	K inches mm	L inches mm	Approx. (Each) lb kg
4 DN100	4.500 114.3	8.25 210	3.35 85	2.99 76	4.00 102	4.33 111	4.52 115	5.48 139	0.34 9	0.61 15	15.67 398	45.0 20.5
6 DN150	6.625 168.3	10.10 257	4.53 115	4.00 102	6.00 152	6.46 164	6.64 169	6.48 165	0.34 9	0.61 15	18.07 459	82.0 37.3

Series 726S with Gear Operator
4 – 6"/DN100 – DN150



Size		Dimensions													Approx.	
Nominal inches DN	Actual Outside Diameter inches mm	A inches mm	C inches mm	D inches mm	DA inches mm	E inches mm	F inches mm	J inches mm	K inches mm	M inches mm	N inches mm	O inches mm	P inches mm	Q inches mm	R inches mm	(Each) lb kg
4 DN100	4.500 114.3	8.25 210	3.35 85	2.99 76	4.00 102	4.33 111	4.52 115	0.34 9	0.61 15	9.95 253	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	48.2 21.9
6 DN150	6.625 168.3	10.10 257	4.53 115	4.00 102	6.00 152	6.46 164	6.64 169	0.34 9	0.61 15	11.02 280	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	92.5 42.0

5.0 PERFORMANCE

Pressure Rating Chart

Size		Maximum Working Pressure psi kPa
Nominal inches DN	Actual Outside Diameter inches mm	
1½ – 3 DN40 – DN80	1.900 – 3.500 48.3 – 88.9	1000 6895
4 – 6 DN100 – DN150	4.500 – 6.625 114.3 – 168.3	800 5516

5.1 PERFORMANCE

Flow Characteristics

Flow testing for Series 726S ball valves demonstrated superior flow characteristics to all other competitive standard port valves. Smaller size valves actually have flow coefficients comparable to full port valves. Testing for *Vic-Ball* valve and competitive valves was performed in our own engineering laboratory facilities with systems and equipment calibrated to National Bureau of Standards.

C_v values for flow of water at +60°F (+16°C) with a fully open valve are shown in the table below.

Formulas for C_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

Size		Flow Coefficient
Nominal inches DN	Actual Outside Diameter inches mm	Full Open
1½ DN40	1.900 48.3	130
2 DN50	2.375 60.3	180
2½	2.875 73.0	340
3 DN80	3.500 88.9	600
4 DN100	4.500 114.3	650
6 DN150	6.625 168.3	800

5.2 PERFORMANCE

Series 726S Torque Requirements

The following chart details required torque to operate Series 726S ball valves under varied working pressure conditions. This chart may be used to determine optional gear operator or remote electric or pneumatic actuator requirement. Contact Victaulic for specific operator/actuator recommendations.

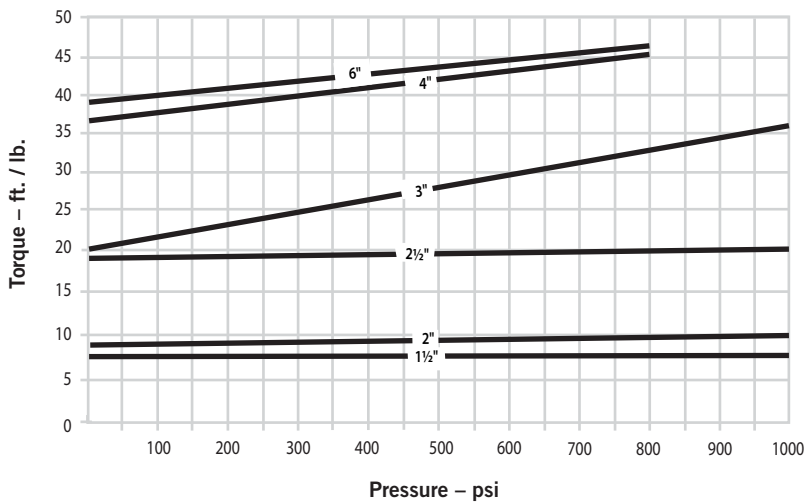
These torque values were derived from test data in water at ambient temperature. All torque values are for normal service conditions where corrosion is expected to be minor, and the media is clean and non abrasive. The torque shown on the chart should be multiplied by the appropriate factor listed below.

Breakaway Factor: Ball valves will require additional breakaway torque if they are not continuously operated. A breakaway factor of between 2:1 and 3:1 should be applied to break the ball loose after being in a static condition for more than a few hours.

Typical service factors commonly used in the industry are:

- Water and other liquids: 1.0
- Dry gasses: 1.5 – 2.0

Actuation Factor: A minimum factor of 1.2 is recommended for directly actuated valves and 1.5 for 3-way assemblies. Apply the actuation factor to the higher of the breakaway or service factor.



6.0 NOTIFICATIONS

⚠ WARNING





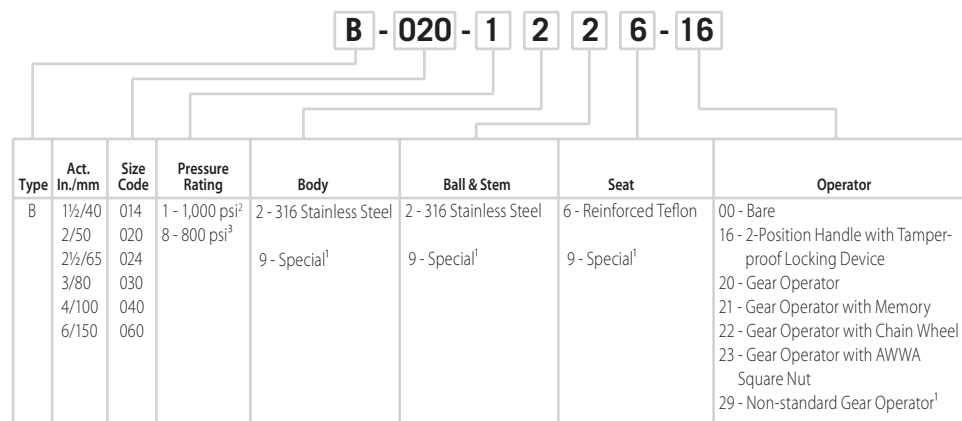



- Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Wear safety glasses, hardhat, and foot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

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

7.0 REFERENCE MATERIALS

Ball Valve Numbering System for Series 726S



NOTES:
 (1) Details required.
 (2) For sizes 1½ - 3"
 (3) For sizes 4 - 6"

7.1 REFERENCE MATERIALS

- [08.23: Victaulic Ball Valve Series 726](#)
- [26.01: Victaulic Design Data](#)
- [29.01: Victaulic Terms and Conditions](#)
- [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.

Intellectual Property Rights

No statement contained herein concerning a possible or suggested use of any material, product, service, or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Victaulic or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product, service, or design in the infringement of any patent or other intellectual property right. The terms "Patented" or "Patent Pending" refer to design or utility patents or patent applications for articles and/or methods of use in the United States and/or other countries.

Note

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

Installation

Reference should always be made to the Victaulic installation handbook or installation instructions of the product you are installing. Handbooks are included with each shipment of Victaulic products, providing 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.

Trademarks

Victaulic and all other Victaulic marks are the trademarks or registered trademarks of Victaulic Company, and/or its affiliated entities, in the U.S. and/or other countries.