

# Vic-Ball® Valve

## SERIES 726

The Series 726 is a high-pressure standard port ball valve with grooved ends. This two-piece, end-entry valve features a floating ball for lower torque requirements. Series 726 valves are NACE compliant and are capable of pressures up to 1000psi/6900kPa in sizes 1 1/2 – 3”/40 – 80mm; 800psi/5515kPa for sizes 4 – 6”/100 – 150mm. The valve is available in 1 1/2 – 6”/40 – 150mm sizes. The internal design has been streamlined to provide excellent flow characteristics. The valve features a chrome plated carbon steel ball and stem. The seat material is glass-reinforced PTFE.

Series 726 features ISO standard mounting holes for easier mounting of remote actuation. 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.

NOTE: Vic-Ball valves are designed for full open or shut-off service; throttling is not recommended with standard ball valves as damage to the seat can result from high velocity flow over the exposed seat.



Pressure Rating Chart		
Valve Size		Max. Work Pressure
Nominal Size Inches mm	Actual Outside Diameter Inches mm	psi kPa
1 1/2 – 3 40 – 80	1.900 – 3.500 48.3 – 88.9	1000 6900
4 – 6 100 – 150	4.500 – 6.625 114.3 – 168.3	800 5515

### MATERIAL SPECIFICATIONS

**Body and End Cap:** Ductile iron conforming to ASTM A-395

**Stem:** Carbon steel, chrome plated  
 • **Optional:** 316 stainless steel

**Ball:** Chrome plated Carbon steel  
 • **Optional:** 316 stainless steel

**Seats:** PTFE (Polytetrafluoroethylene) glass-reinforced

**Seals:** Fluoroelastomer

**Operators:**

- **Lever Handle:**
  - 1 1/2 – 3”/40 – 80 mm  
Carbon steel, zinc plated. Plastic grip
  - 4 & 6”/100 & 150 mm  
Carbon steel, enamel paint

- **Gear Operator:** 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 Drive Components:** Stamped carbon steel, zinc plated

**JOB/OWNER**

System No. \_\_\_\_\_  
 Location \_\_\_\_\_

**CONTRACTOR**

Submitted By \_\_\_\_\_  
 Date \_\_\_\_\_

**ENGINEER**

Spec Sect \_\_\_\_\_ Para \_\_\_\_\_  
 Approved \_\_\_\_\_  
 Date \_\_\_\_\_

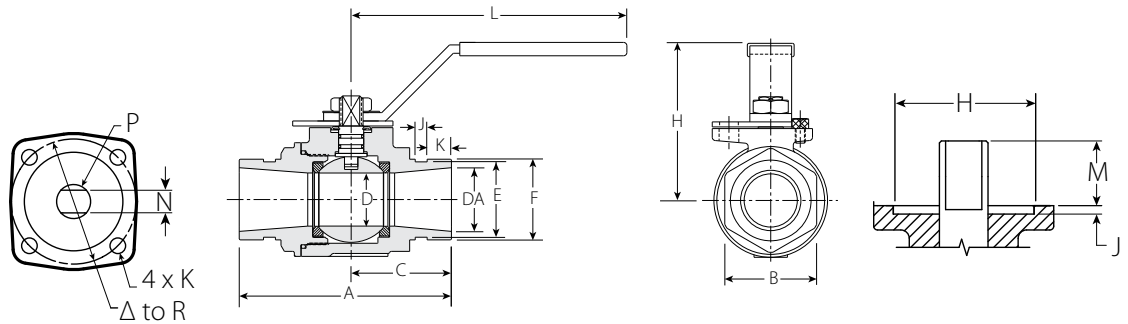
# Vic-Ball® Valve

## SERIES 726

### DIMENSIONS

**SERIES 726**  
With Standard Handle  
1 ½ – 3" / 40 – 80 mm

Size		Dimensions – Inches/mm																Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A	B	C	D	DA	E	F	H	J	K	L	P	M	N	R	Lbs. kg	
1 ½ 40	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	0.56 14.2	0.81 20.6	0.35 9.0	1.97 50.0	4.4 2.0	
2 50	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	0.56 14.2	0.81 20.6	0.35 9.0	1.97 50.0	6.5 3.0	
2 ½ 65	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	0.75 19.0	1.00 25.4	0.47 12.0	2.76 70.0	10.4 4.7	
76.1	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	0.75 19.0	1.00 25.4	0.47 12.0	2.76 70.0	10.4 4.7	
3 80	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	0.75 19.0	1.03 26.2	0.47 12.0	2.76 70.0	14.9 6.8	



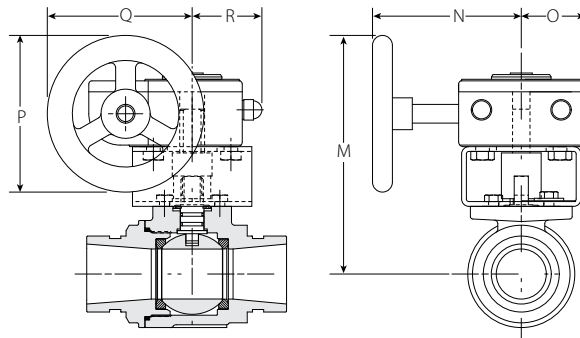
# Vic-Ball® Valve

## SERIES 726

### DIMENSIONS

**SERIES 726**  
 With Gear Operator  
 1 ½ – 3 ¼ – 80 mm

Size		Dimensions – Inches/mm						Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	M	N	O	P	Q	R	Lbs. kg
1 ½ 40	1.900 48.3	6.03 153	4.29 109	1.58 40	3.94 100	2.64 92	1.75 44	7.1 3.2
2 50	2.375 60.3	6.30 160	4.29 109	1.58 40	3.94 100	2.64 92	1.75 44	9.1 4.1
2 ½ 65	2.875 73.0	7.43 189	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	12.9 5.9
76.1	2.875 73.0	7.43 189	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	12.9 5.9
3 80	3.500 88.9	7.94 202	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	20.0 9.1



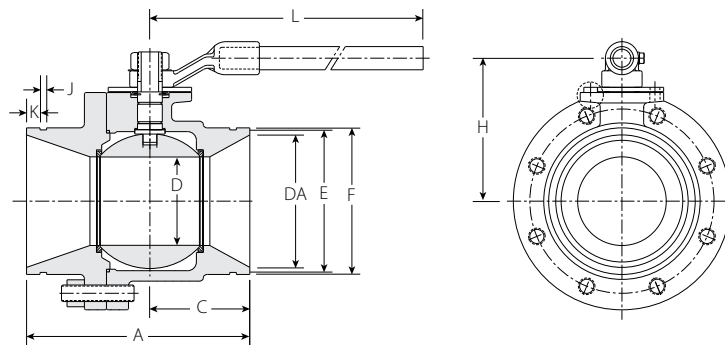
# Vic-Ball® Valve

## SERIES 726

### DIMENSIONS

**SERIES 726**  
With Standard Handle  
4 and 6"/100 and 150 mm

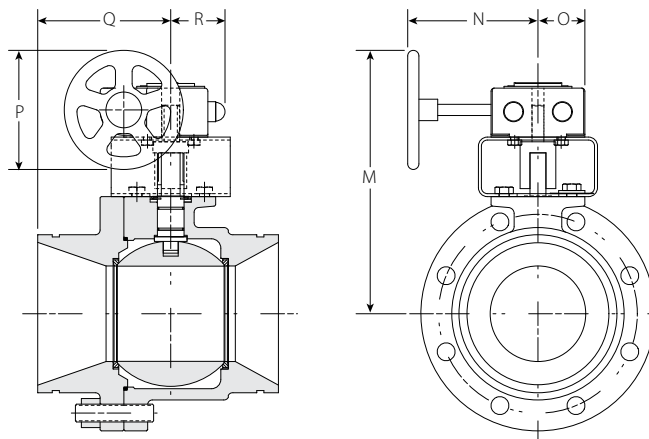
Size		Dimensions – Inches/mm										Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A	C	D	DA	E	F	H	J	K	L	Lbs. kg
4 100	4.500 114.3	8.25 210	3.35 85	2.99 76	4.00 102	4.33 111	4.52 115	5.48 139	0.34 9	0.61 15	15.67 398	41.5 18.9
6 150	6.625 168.3	10.10 257	4.53 115	4.00 102	6.00 152	6.46 164	6.64 169	6.48 165	0.34 9	0.61 15	18.07 459	78.5 35.7



### DIMENSIONS

**SERIES 726**  
With Gear Operator  
4 and 6"/100 and 150 mm

Size		Dimensions – Inches/mm						Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	M	N	O	P	Q	R	Lbs. kg
4 100	4.500 114.3	9.95 253	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	44.7 20.3
6 150	6.625 168.3	11.02 280	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	89.0 40.3



# Vic-Ball® Valve

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### PERFORMANCE

#### FLOW CHARACTERISTICS

Flow testing for Vic-Ball Series 726 ball valves demonstrated superior flow characteristics to other competitive standard 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<sub>v</sub> values for flow of water at +60°F/+16°C with a fully open valve are shown in tables below.

#### Formulas for C<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

Size		C <sub>v</sub>	Size		C <sub>v</sub>
Nominal Size Inches mm	Actual Outside Diameter Inches mm	Full Open	Nominal Size Inches mm	Actual Outside Diameter Inches mm	Full Open
1½ 40	1.900 48.3	130	3 80	3.500 88.9	600
2 50	2.375 60.3	180	4 100	4.500 114.3	650
2½ 65	2.875 73.0	340	6 150	6.625 168.3	800

# Vic-Ball® Valve

## SERIES 726

### TORQUE REQUIREMENTS

#### SERIES 726

With Gear Operator  
4 and 6"/100 and 150 mm

The following chart details required torque to operate Vic-Ball Series 726 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.

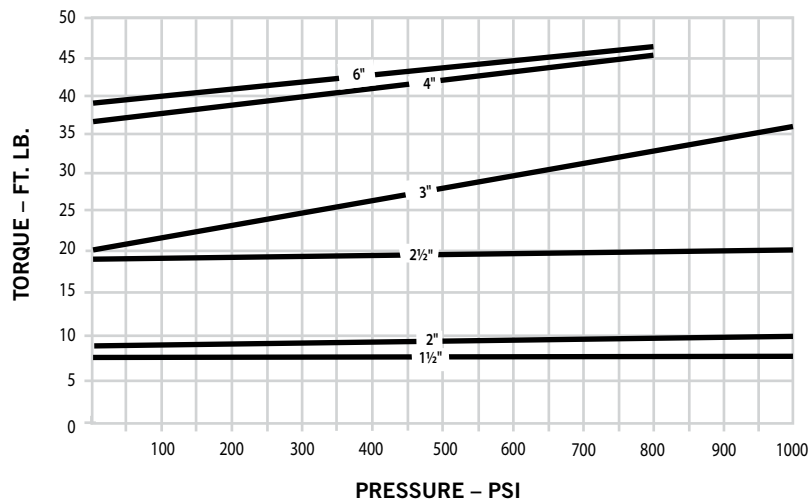
These torque values were derived from test data in water at ambient temperature. All torque values are for normal service conditions where corrosion is expected to be minor, and the media is clean and nonabrasive. The torque shown on the chart should be multiplied by the appropriate factor listed below.

**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.



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## SERIES 726

### SERIES 726 VALVE NUMBERING SYSTEM

B - 020 - 1 1 6 6 - 15

Type	Size		Pressure Rating	Body	Ball & Stem	Seat	Operator
	Act. In./mm	Fig. No.					
B	1½/40	014	1 - 1,000 psi	1 - Iron <sup>2</sup>	6 - Nickel Plated Carbon Steel	6 - Reinforced PTFE	00 - Bare 15 - 2-Position Handle 16 - 2-Position Handle with Tamper-proof Locking Device 19 - Locking Device - Without Handle 20 - Gear Operator 21 - Gear Operator with Memory 22 - Gear Operator with Chain Wheel 23 - Gear Operator with AWWA Square Nut 29 - Non-standard Gear Operator <sup>1</sup>
	2/50	020	8 - 800 psi <sup>3</sup>	9 - Special <sup>1</sup>		9 - Special <sup>1</sup>	
	2½/65	024					
	76.1	076					
	3/80	030					
	4/100	040					
	6/150	060					

NOTES:  
 (1) Details required.  
 (2) All Iron Body valves are NACE compliant.  
 (3) Pressure rating applicable to 4 and 6" sizes only.  
 \* For Series 726S, please see publication 17.22.

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SERIES 726

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**WARRANTY**

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

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**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.



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For complete contact information, visit [www.victaulic.com](http://www.victaulic.com)

08.23 3068 REV E UPDATED 5/2008

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