

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 1000 psi/6900 kPa in sizes 1 1/2 – 3”/40 – 80mm; 800psi/5515 kPa 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: Carbon steel, chrome plated
 • **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 _____

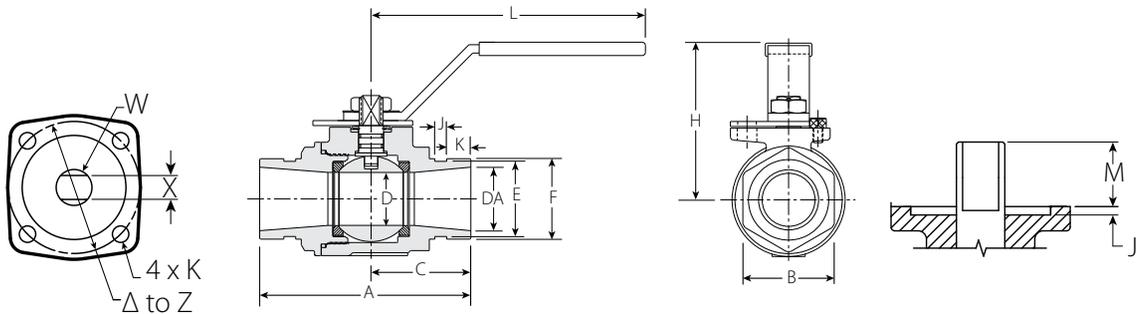
Vic-Ball® Valve

SERIES 726

DIMENSIONS

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

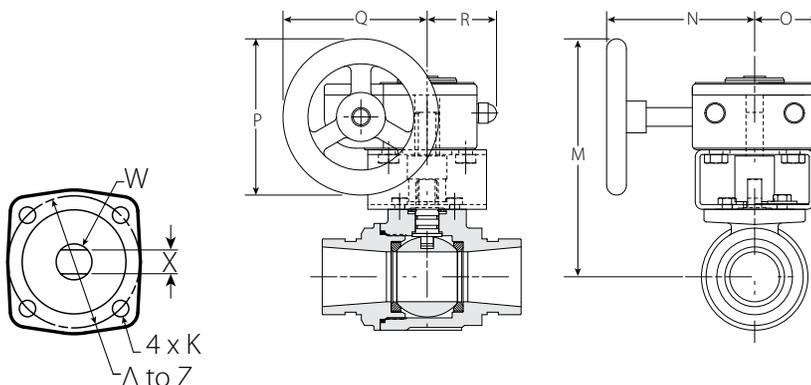
Size		Dimensions – Inches/mm																Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A	B	C	D	DA	E	F	H	J	K	L	M	W	X	Z	Lbs. kg	
1 ½ 40	1.900 48.3	5.12 130	2.00 51	2.36 60	1.25 32	1.50 38	1.78 45	1.90 48	3.00 76	0.28 7	0.56 14	6.97 177	0.81 20.6	0.56 14.2	0.35 9.0	1.97 50.0	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	0.81 20.6	0.56 14.2	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	1.00 25.4	0.56 14.2	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	1.00 25.4	0.75 19.0	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	1.03 26.2	0.75 19.0	0.47 12.0	2.76 70.0	14.9 6.8	



DIMENSIONS

SERIES 726
With Gear Operator
1 ½ – 3”/40 – 80mm

Size		Dimensions – Inches/mm											Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	K	M	N	O	P	Q	R	W	X	Z	Lbs. kg	
1 ½ 40	1.900 48.3	0.56 14.2	6.03 153	4.29 109	1.58 40	3.94 100	2.64 92	1.75 44	0.56 14.2	0.35 9.0	1.97 50.0	7.1 3.2	
2 50	2.375 60.3	0.56 14.2	6.30 160	4.29 109	1.58 40	3.94 100	2.64 92	1.75 44	0.56 14.2	0.35 9.0	1.97 50.0	9.1 4.1	
2 ½ 65	2.875 73.0	0.56 14.2	7.43 189	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	0.56 14.2	0.47 12.0	2.76 70.0	12.9 5.9	
76.1	2.875 73.0	0.56 14.2	7.43 189	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	0.75 19.0	0.47 12.0	2.76 70.0	12.9 5.9	
3 80	3.500 88.9	0.56 14.2	7.94 202	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	0.75 19.0	0.47 12.0	2.76 70.0	20.0 9.1	



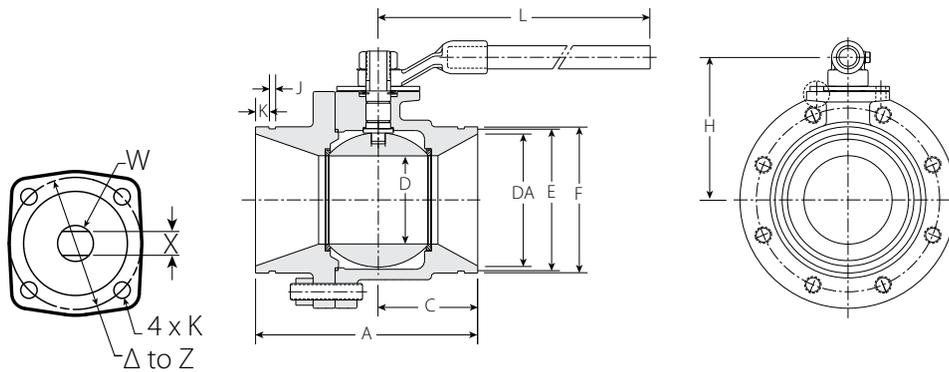
Vic-Ball® Valve

SERIES 726

DIMENSIONS

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

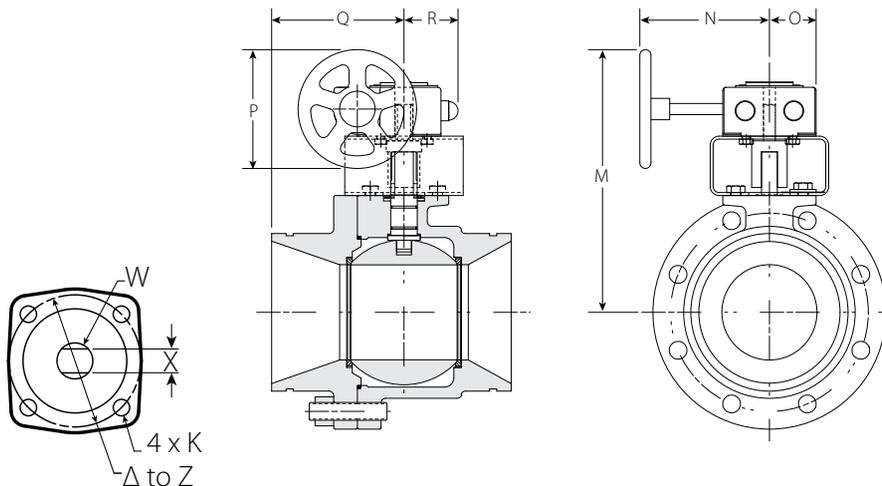
Size		Dimensions – Inches/mm														Approx. Wgt. Each
Nominal Size Inches/mm	Actual Outside Diameter Inches/mm	A	C	D	DA	E	F	H	J	K	L	W	X	Z	Lbs. kg	
4 100	4.500 114.3	8.25 210	3.35 85	2.99 76	4.00 102	4.33 111	4.52 115	5.48 139	0.34 9	0.61 15	15.67 398	0.75 19.0	0.47 12.0	2.76 70.0	41.5 18.9	
6 150	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	0.75 19.0	0.47 12.0	2.76 70.0	78.5 35.7	



DIMENSIONS

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

Size		Dimensions – Inches/mm											Approx. Wgt. Each
Nominal Size Inches/mm	Actual Outside Diameter Inches/mm	K	M	N	O	P	Q	R	W	X	Z	Lbs. kg	
4 100	4.500 114.3	0.61 15	9.95 253	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	0.75 19.0	0.47 12.0	2.76 70.0	44.7 20.3	
6 150	6.625 168.3	0.61 15	11.02 280	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	0.75 19.0	0.47 12.0	2.76 70.0	89.0 40.3	



Vic-Ball® Valve

SERIES 726

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_v values for flow of water at +60°F/+16°C with a fully open valve are shown in tables 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/LPM)

ΔP = Pressure Drop (psi/kPa)

C_v = Flow Coefficient

Size		C _v	Size		C _v
Nominal Size Inches mm	Actual Outside Diameter Inches mm		Nominal Size Inches mm	Actual Outside Diameter Inches mm	
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

TORQUE REQUIREMENTS

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.

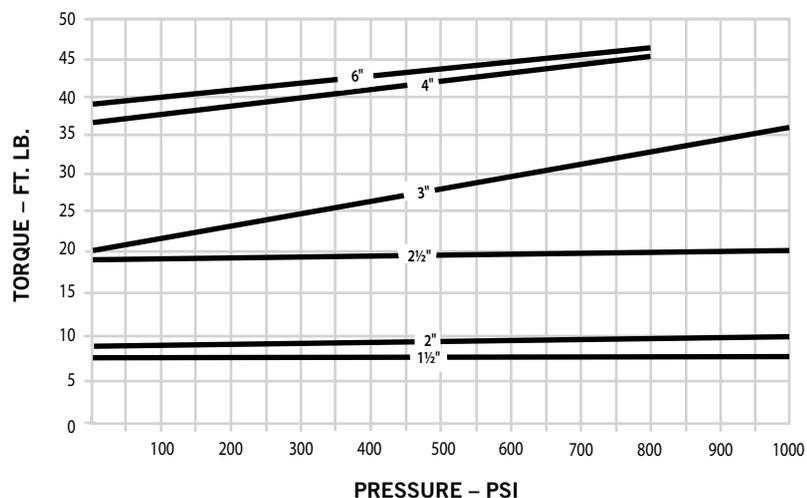
These torque values were derived from test data in water at ambient temperature. All torque values are for normal service conditions where corrosion is expected to be minor, and the media is clean and nonabrasive. The torque shown on the chart should be multiplied by the appropriate factor listed below.

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.



Vic-Ball® Valve

SERIES 726

SERIES 726 VALVE NUMBERING SYSTEM

B - 020 - 1 1 6 6 - 16

Type	Act. In./mm	Size Code	Pressure Rating	Body	Ball & Stem	Seat	Operator
B	1½/40	014	1 - 1,000 psi	1 - Iron ²	2 - 316 Stainless Steel	6 - Reinforced PTFE	00 - Bare
	2/50	020	8 - 800 psi ³	9 - Special ¹	6 - Chrome Plated Carbon Steel	9 - Special ¹	16 - 2-Position Handle with Tamper-proof Locking Device
	2½/65	024			9 - Special ¹		21 - Gear Operator with Memory
	3/80	030	20 - Gear Operator				
	4/100	040		22 - Gear Operator with Chain Wheel			
	6/150	060	23 - Gear Operator with AWWA Square Nut				
				29 - Non-standard Gear Operator ¹			

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

WARRANTY

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

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.

For complete contact information, visit www.victaulic.com

08.23 3068 REV G UPDATED 05/2011

VICTAULIC IS A REGISTERED TRADEMARK OF VICTAULIC COMPANY. © 2011 VICTAULIC COMPANY. ALL RIGHTS RESERVED.

