

Series 726 Vic-Ball® Valve

PRODUCT DESCRIPTION



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 1½ - 3" (40 - 80 mm); 800 psi (5515 kPa) for sizes

4 - 6" (100 - 150 mm). The valve is available in 1½ to 6-inch (40 - 150 mm) 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 virgin TFE.

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.

Pressure Rating Chart

Valve Size		Max. Working Pressure psi/kPa
Nominal Outside Dia. Inches/mm	Actual Outside Dia. Inches/mm	
1½ - 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: (TFE) Tetrafluoroethylene.

Seals: Fluoroelastomer.

Operators:

Lever Handle:

1½ - 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. 4 and 6" 100 and 150 mm) only.

- Power Actuators:** Electric, pneumatic, hydraulic.

- Integral Locking Drive Components:** Stamped carbon steel, zinc plated.

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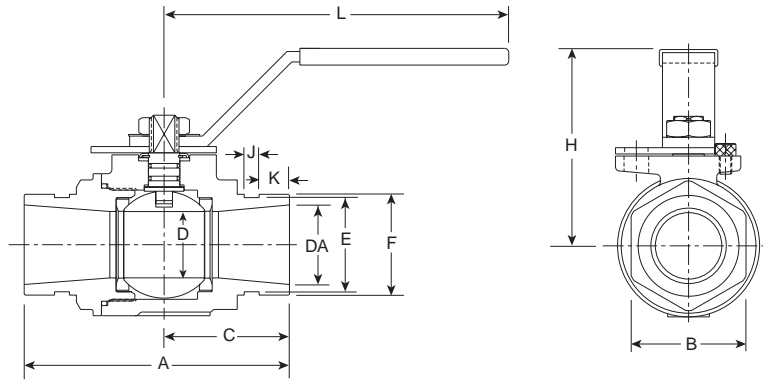
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DIMENSIONS

Style 726

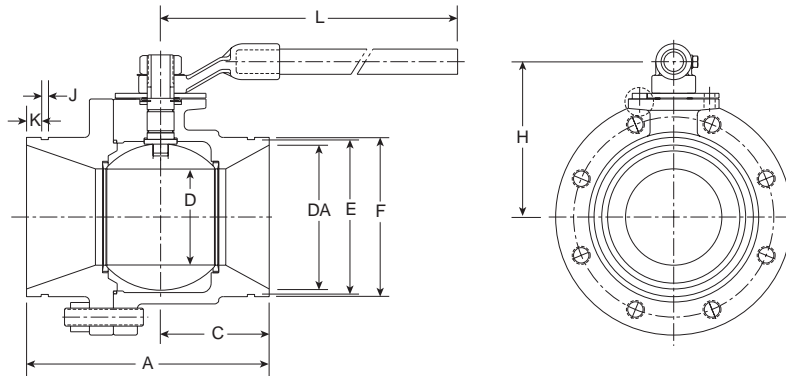
1½ - 3"
(40 - 80 mm)



Valve Size		Dimensions – Inches/millimeters											Approx. Weight Each Lbs./kg
Nominal Outside Diameter Inches/mm	Actual Outside Diameter Inches/mm	A	B	C	D	DA	E	F	H	J	K	L	
1½ 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	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	6.5 3.0
2½ 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	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	14.9 6.8

Series 726

4 and 6"
(100 and 150 mm)



Valve Size		Dimensions – Inches/millimeters										Approx. Weight Each Lbs./kg
Nominal Outside Diameter Inches/mm	Actual Outside Diameter Inches/mm	A	C	D	DA	E	F	H	J	K	L	
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

PERFORMANCE

Series 726

Flow Characteristics
Flow testing for Vic-Ball Series 726 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

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

Formulas for C_v Values:

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

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

Where:

Q = Flow (GPM)

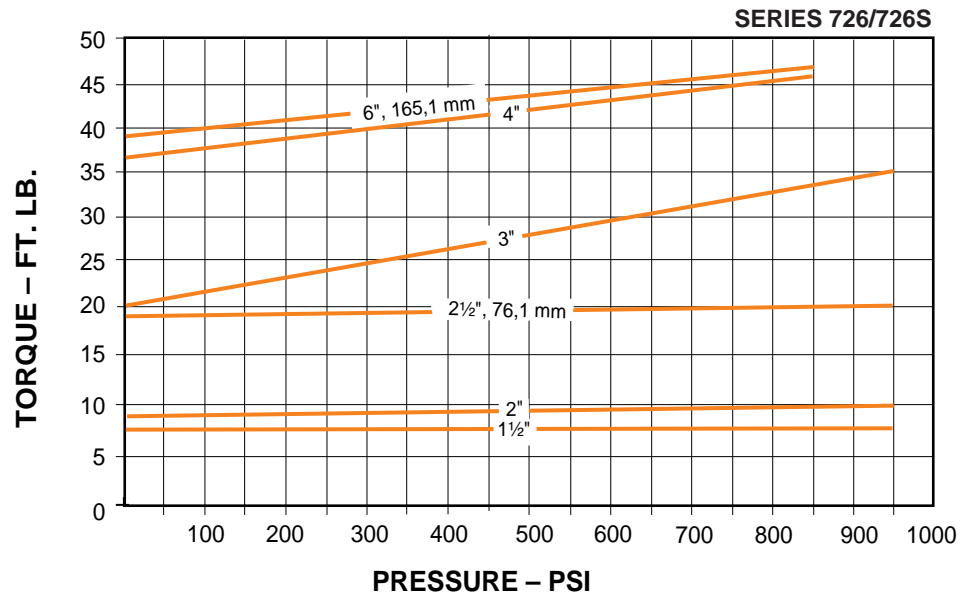
C_v = Flow Coefficient

ΔP = Pressure Drop (PSI)

Valve Size		C _v (Full Open)	Valve Size		C _v (Full Open)
Nominal Outside Diameter Inches/mm	Actual Outside Diameter Inches/mm		Nominal Outside Diameter 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

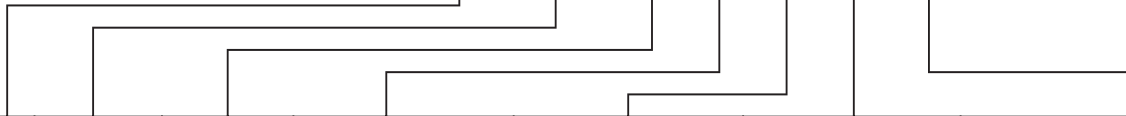
Series 726

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.



Ball Valve Numbering System for Series 726*

B - 020 - 1 1 6 6 16



Type	Size		Pressure Rating	Body	Ball & Stem	Seat	Operator
B	014	1½"	1 - 1,000 psi	1 - Ductile Iron	6 - Nickel Plated Carbon Steel	6 - Reinforced Teflon	00 - Bare
	020	2"	8 - 800 psi				16 - 2-Position Handle with Tamper-proof Locking Device
	024	2½"		9 - Special ¹		9 - Special ¹	20 - Gear Operator
	030	3"			9 - Special ¹		21 - Gear Operator with Memory
	040	4"					22 - Gear Operator with Chain Wheel
	060	6"					23 - Gear Operator with AWWA Square Nut
							29 - Non-standard Gear Operator ¹
							VV - Pneumatic ¹
							WW - Electric ¹
							YY - Hydraulic ¹

NOTES:

(1) Details required.

*For Series 726S, please see publication 17.22.

This product shall be manufactured by Victaulic Company. 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.