Vic-Ball® Valve

Series 726







Lever Operator

Gear Operator

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 design. Series 726 valves are NACE compliant and are capable of pressures up to 1000 psi/6900 kPa/69 Bar. The valve is available in $1 \frac{1}{2} - 6"/40 - 150$ mm sizes. The internal design has been streamlined to provide excellent flow characteristics. Series 726 valves conform to ASME A17.1-2007/ CSA B44-07.

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 shutoff 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									
Valv	Valve Size								
Nominal Size	Actual Outside Diameter	Max. Work Pressure							
inches	inches	psi							
mm	mm	kPa							
1 ½ – 3	1.900 – 3.5000	1000							
40 – 80	48.3 – 88.9	6900							
4 – 6	4.500 – 6.625	800							
100 – 150	114.3 – 168.3	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

Seals: PTFE (Polytetrafluoroethylene) glass-reinforced

Seals: Fluoroelastomer

Operators:

Lever Handle:

1 ½ – 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 Section	
Paragraph	
Approved	
Date	

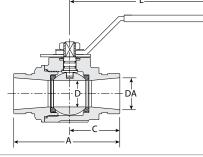


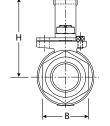
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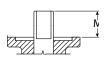
Series 726

With Standard Handle $1 \frac{1}{2} - \frac{3}{40} - 80 \text{ mm}$









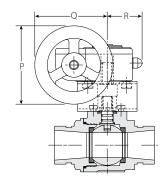
Si	ize		Dimensions											
Nominal Size	Actual Outside Diameter	Α	В	С	D	DA	н	K	L	М	w	X	Z	Approx. Weight Each
inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	lbs
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
1 ½	1.900	5.12	2.00	2.36	1.25	1.50	3.00	M6 x 1	6.97	0.81	0.56	0.35	1.97	4.4
40	48.3	130	51	60	32	38	76		177	20.6	14.2	9.0	50.0	2.0
2	2.375	5.50	2.64	2.48	1.50	2.00	3.31	M6 x 1	6.97	0.81	0.56	0.35	1.97	6.5
50	60.3	140	67	63	38	51	84		177	20.6	14.2	9.0	50.0	3.0
2 ½	2.875	6.25	3.03	2.80	1.97	2.50	4.00	M8 x 1.25	9.84	1.00	0.56	0.47	2.76	10.4
65	73.0	159	77	71	50	64	102		250	25.4	14.2	12.0	70.0	4.7
76.1	2.875 73.0	6.25 159	3.03 77	2.80 71	1.97 50	2.50 64	4.00 102	M8 x 1.25	9.84 250	1.00 25.4	0.75 19.0	0.47 12.0	2.76 70.0	10.4 4.7
3	3.500	6.56	3.50	3.15	2.50	3.00	4.53	M8 x 1.25	9.84	1.03	0.75	0.47	2.76	14.9
80	88.9	167	89	80	64	76	115		250	26.2	19.0	12.0	70.0	6.8

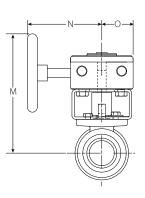
Dimensions:

Series 726

With Gear Operator 1 ½ – 3"/40 – 80 mm







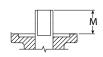
Si	ze	Dimensions										
Nominal Size	Actual Outside Diameter	K	M	N	0	Р	Q	R	w	X	Z	Approx. Weight Each
inches mm	inches mm	inches mm	inches mm	inches mm	inches	inches mm	inches mm	inches mm	inches mm	inches	inches mm	lbs
		111111			mm					mm		kg
1 ½ 40	1.900 48.3	M6 x 1	6.03 153	4.29 109	1.58 40	3.94 100	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	M6 x 1	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	M8 x 1.25	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	M8 x 1.25	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	M8 x 1.25	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



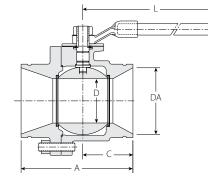
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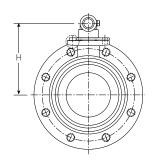
Series 726

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









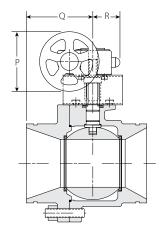
S	Size Dimensions												
Nominal Size	Actual Outside Diameter	A	С	D	DA	н	К	L	M	w	x	Z	Approx. Weight Each
inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	lbs
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
4	4.500	8.25	3.35	2.99	4.00	5.48	M10 x 1.5	15.67	1.64	0.81	0.55	4.02	41.5
100	114.3	210	85	76	102	139		398	42	21	14	102	18.9
6	6.625	10.10	4.53	4.00	6.00	6.48	M10 x 1.5	18.07	1.98	1.02	0.67	4.02	78.5
150	168.3	257	115	102	152	165		459	50	26	17	102	35.7

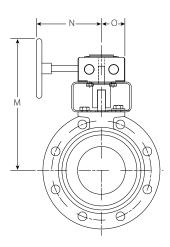
Dimensions:

Series 726

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







Si	ze	Dimensions										
Nominal Size	Actual Outside Diameter	K	M	N	0	Р	Q	R	w	X	Z	Approx. Weight Each
inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	lbs
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
4	4.500	M10 x 1.5	9.95	4.65	1.97	4.92	4.43	2.28	0.81	0.55	4.02	44.7
100	114.3		253	118	50	125	112	58	21	14	102	20.3
6	6.625	M10 x 1.5	11.02	4.65	1.97	4.92	4.43	2.28	1.02	0.67	4.02	89.0
150	168.3		280	118	50	125	112	58	26	17	102	40.3



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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_v values for flow of water at +60°F/+16°C are shown in the tables below.

Formulas for C_v values

 $\Delta P = Q^2/C_v^2$

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

Where:	W	he	re:
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Flow Coefficient	C _v
ΔP (Pressure Drop)	psi/kPa
Q (Flow)	GPM/LPM

SI	ze	Full Open	SI	ze	Full Open
Nominal Size	Actual Outside Diameter		Nominal Size	Actual Outside Diameter	
inches mm	inches mm	C _v	inches mm	inches mm	C _v
1 ½ 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
2 ½ 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.

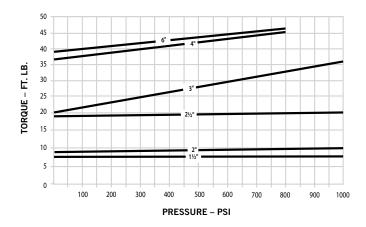
These torque values were derived from test data in water at ambient temperature. All torque values are for normal service conditions where corrosion is expected to be minor, and the media is clean and non abrasive. The torque shown on the chart should be multiplied by the appropriate factor listed below.

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.

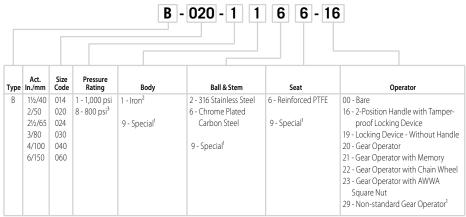
Typical service factors commonly used in the industry

- 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.



Series 726 Valve Numbering System



- 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.

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.

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.

Trademarks

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