VICTAULIC® IS AN ISO 9001 CERTIFIED COMPANY

Series 726S Stainless Steel Vic-Ball® Valve

PRODUCT DESCRIPTION



The Series 726S 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 726S valves are NACE compliant and are capable of pressures up to 1000 psi (6900 kPa) in sizes 11/2 - 3" (40 – 80 mm); 800 psi (5515 kPa) for sizes 4 - 6" (100 – 150 mm). The internal design has been streamlined to provide excellent flow characteristics. The valve features a stainless steel ball and stem. The seat material is virgin TFE.

Series 726S 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	Max.								
Nominal	Actual	Working							
Diameter	Outside Dia.	Pressure							
Inches/mm	Inches/mm	psi/kPa							
1 ¹ / ₂ - 3	1.900 - 3.500	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: Stainless steel, CF8M.

Ball: 316 stainless steel.

Seats: (TFE) Tetrafluoroethylene.

Seals: Fluoroelastomer.

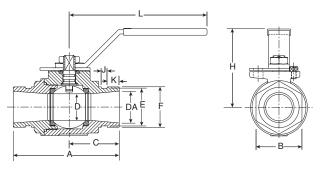
Operators:

- · 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.
 - 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.

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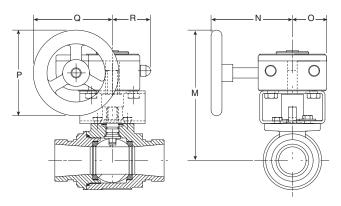
DIMENSIONS

Series 726S With Standard Handle 11/2 - 3" (40 - 80 mm)



Valve	Size		Dimensions – Inches/millimeters										
Nominal Diameter Inches/mm	Actual Outside Diameter Inches/mm	А	В	С	D	DA	E	F	н	J	K	L	Approx. Weight Each Lbs./kg
1 ¹ / ₂	1.900	5.12	2.00	2.36	1.25	1.50	1.78	1.90	3.00	0.28	0.56	6.97	4.8
40	48,3	130	51	60	32	38	45	48	76	7	14	177	2,2
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	7.5 3,4
21/2	2.875	6.25	3.03	2.80	1.97	2.50	2.72	2.88	4.00	0.34	0.56	9.84	11.6
65	73,0	159	77	71	50	64	69	73	102	9	14	250	5,3
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	17.2 7,8

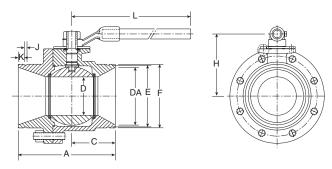
Series 726S With Gear Operator $1^{1}/_{2} - 3^{"}$ (40 – 80 mm)



Valv	e Size							
Nominal Diameter Inches/mm	Actual Outside Diameter Inches/mm	М	N	0	P	Q	R	Approx. Weight Each Lbs./kg
11/2	1.900	6.03	4.29	1.58	3.94	2.64	1.75	7.5
40	48,3	153	109	40	100	92	44	3,4
2 50	2.375 60,3	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 65	2.875 73,0	7.43 189	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	15.4 7,0
3 80	3.500 88,9	7.94 202	4.65 118	1.97 50	4.92 125	4.43 112	2.28 58	21.2 9,6

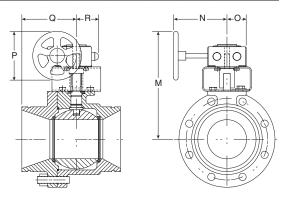
DIMENSIONS

Series 726S With Standard Handle 4 and 6" (100 and 150 mm)



Valve	Size	Dimensions – Inches/millimeters										
Nominal Diameter Inches/mm	Actual Outside Diameter Inches/mm	A	С	D	DA	E	F	н	J	К	L	Approx. Weight Each Lbs./kg
4	4.500	8.25	3.35	2.99	4.00	4.33	4.52	5.48	0.34	0.61	15.67	45.0
100	114,3	210	85	76	102	111	115	139	9	15	398	20,5
6	6.625	10.10	4.53	4.00	6.00	6.46	6.64	6.48	0.34	0.61	18.07	82.0
150	168,3	257	115	102	152	164	169	165	9	15	459	37,3

Series 726S With Gear Operator 4 and 6" (100 and 150 mm)



Valv								
Nominal Diameter Inches/mm	Actual Outside Diameter Inches/mm	М	N	0	Р	Q	R	Approx. Weight Each Lbs./kg
4	4.500	9.95	4.65	1.97	4.92	4.43	2.28	48.2
100	114,3	253	118	50	125	112	58	21,9
6	6.625	11.02	4.65	1.97	4.92	4.43	2.28	92.5
150	168,3	280	118	50	125	112	58	42,0

PERFORMANCE

Flow Characteristics

Flow testing for Vic-Ball 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

 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:

 $\Delta P = Pressure Drop (psi)$

$$\Delta P = \frac{Q^2}{C_{v}^2}$$

Where:

Q = Flow (GPM)

 C_V = Flow Coefficient

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

Valve	Size		Valve	Size	
Nominal Diameter Inches/mm	Actual Outside Diameter Inches/mm	C _∨ (Full Open)	Nominal Diameter Inches/mm	Actual Outside Diameter Inches/mm	C _∨ (Full Open)
1 ¹ / ₂ 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 ¹ / ₂ 65	2.875 73,0	340	6 150	6.625 168,3	800

SERIES 726S TORQUE REQUIREMENTS

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

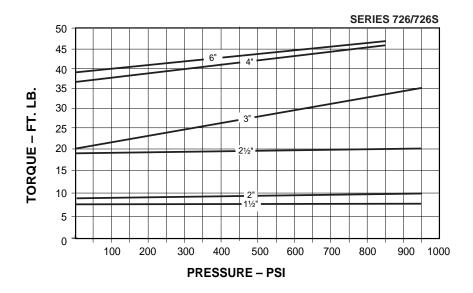
These torque values were derived from test data in water at ambient temperature. All torque values are for normal service conditions where corrosion is expected to be minor, and the media is clean and non abrasive. The torque shown on the chart should be multiplied by the appropriate factor listed below.

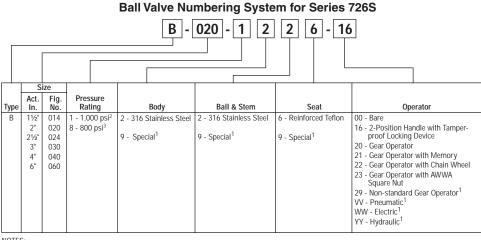
Breakaway Factor: Ball valves will require additional breakaway torque if they are not continuously operated. A breakaway factor of between 2:1 and 3:1 should be applied to break the ball loose after being in a static condition for more than a few hours.

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.





- NOTES:
- (1) Details required. (2) For sizes 1½ - 3'
- (3) For sizes 4 6"
- * For ductile iron Series 726, request publication 08.23.

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.