Series 726D Super Duplex Stainless Steel *Vic-Ball* Valve

⚠ WARNING

- **Read and understand all instructions before attempting to install any Victaulic products.**
- **Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.**
- **Confirm that any equipment, branch lines, or sections of piping that may have been isolated for/during testing or due to valve closures/positioning are identified, depressurized, and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.**
- **Wear safety glasses, hardhat, and foot protection.**
- **DO NOT loosen or tighten hardware when a valve is pressurized, and DO NOT impact the valve, pipe, couplings, or fittings when the system is pressurized.**
- **The system designer is responsible for verifying suitability of mating component materials with the intended fluid media. Valve bodies, discs, and other wetted components shall be compatible with the material flowing through the piping system. Refer to the current Victaulic product publication for the applicable valve, or contact Victaulic for details.**
- **The effect of chemical composition, pH level, operating temperature, chloride level, oxygen level, and flow rate on mating component materials shall be evaluated to confirm system life will be acceptable for the intended service.**

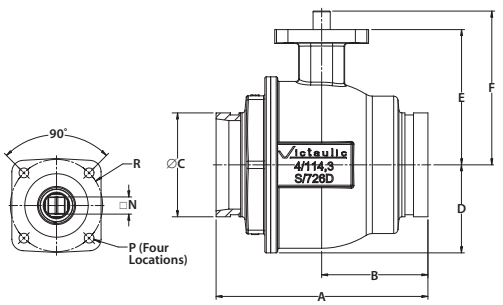
Failure to follow these instructions could result in death or serious personal injury and property damage.

IMPORTANT INSTALLATION INFORMATION

- Valve actuation shall be chosen based on the torque specifications listed in this instruction sheet.
- When installing the actuator, consult with the actuator manufacturer for specific mounting requirements.
- Series 726D Ball Valves shall be installed into the system ONLY with grooved-end stainless steel pipe. DO NOT join plain-end IPS or grooved, cast-ductile iron pipe to the valve.
- To prevent valves from rotating in the system, Victaulic recommends installing the Series 726D Ball Valve with at least one Victaulic rigid coupling. If two Victaulic flexible couplings are used, additional support may be required to prevent the valve from rotating. For proper installation, always reference the I-100 Field Installation Handbook, which can be downloaded by scanning the QR code to the right.

SERIES 726D DIMENSIONAL INFORMATION

Nominal Size inches/DN	Actual Pipe Outside Diameter inches/mm	Dimensions - inches/millimeters									lbs/kg
		"A"	"B"	Ø "C"	"D"	"E"	"F"	"N"	"P"	"R"	Approx. Weight Each
2 DN50	2.375 60.3	6.07 152.4	3.03 77.0	2.375 60.3	2.13 54.0	3.32 84.3	3.85 97.8	0.550 13.97	0.268 6.80	1.969 50.0	8.9 4.0
3 DN80	3.500 88.9	8.00 203.2	4.01 101.8	3.500 88.9	3.13 79.4	4.69 119.1	5.38 136.7	0.668 16.97	0.328 8.33	2.756 70.0	26.8 12.2
4 DN100	4.500 114.3	9.21 233.9	4.62 117.3	4.515 114.7	3.82 97.2	5.88 149.4	6.68 169.7	0.870 22.1	0.504 12.8	4.921 125.0	46.9 21.3
6 DN150	6.625 168.3	12.31 312.6	6.15 156.3	6.640 168.7	6.13 155.7	7.67 194.8	8.78 233.0	1.42 36.1	0.670 17.0	5.512 140.0	126.5 57.4



TORQUE SPECIFICATIONS

The following table details the required torque to operate the Series 726D Ball Valve under various working pressures. This table may be used to determine manual gear operator or remote actuator requirements. These torque specifications have been derived from test data in water service at ambient temperature. All torque specifications are for normal service conditions where corrosion is expected to be minor and the media is clean and non-abrasive. Multiply the torque specification by the appropriate factor(s).

Breakaway Factor: A ball valve can require additional breakaway torque if it is fully closed under pressure for a few hours. A breakaway factor of 2:1 shall be applied, or system pressure shall be decreased prior to opening the valve.

Typical Service Factors Used Commonly in Industry: Water and Other Liquids = 1.0 Dry Gases = 1.5 to 2.0

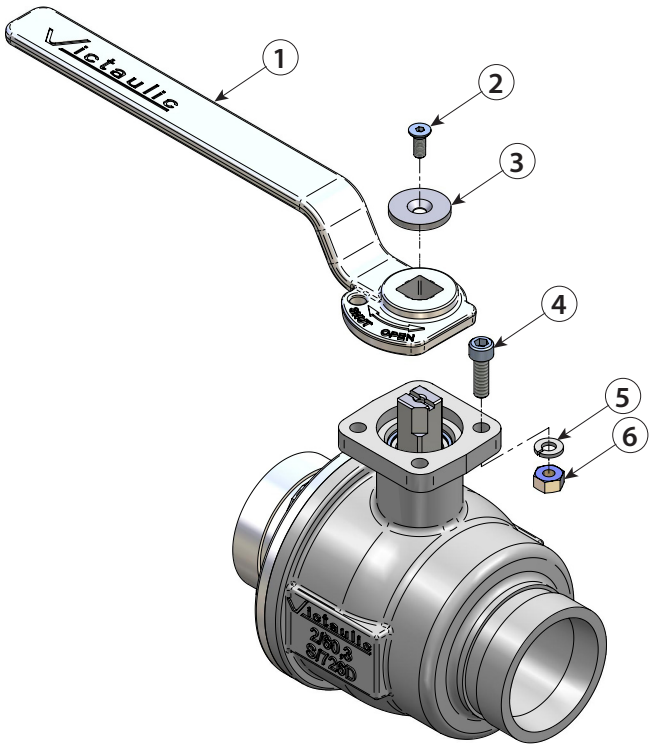
Actuator Factor: A minimum factor of 1.2 is recommended for direct actuated valves. Apply the actuator factor to the higher of the breakaway or service factor.

EXAMPLE: A 4-inch/DN100 direct-actuated ball valve is used in water service at 800 psi/55 Bar. Using the correct factors and the torque specification of 264 ft-lbs or 358 N•m from the table below, the minimum torque output from the actuator would be 634 ft-lbs/860 N•m.
264 (torque in ft-lbs from table) x 1.0 (service factor for water) x 2.0 (breakaway factor) x 1.2 (factor for direct actuated valve) = 634 ft-lbs/860 N•m

Nominal Size inches/DN	Actual Pipe Outside Diameter inches/mm	Pressure psi/Bar						
		0 0	200 14	400 28	600 41	800 55	1000 69	1200 83
		Torque Specification (ft-lbs/N•m)						
2 DN50	2.375 60.3	4 5	14 19	18 24	30 41	40 54	55 75	62 84
3 DN80	3.500 88.9	5 7	20 27	29 39	42 57	54 73	68 92	87 118
4 DN100	4.500 114.3	10 14	71 96	101 137	204 277	264 358	294 399	333 451
6 DN150	6.625 168.3	35 47	223 302	351 476	448 607	509 690	682 925	811 1100

Series 726D Super Duplex Stainless Steel *Vic-Ball* Valve

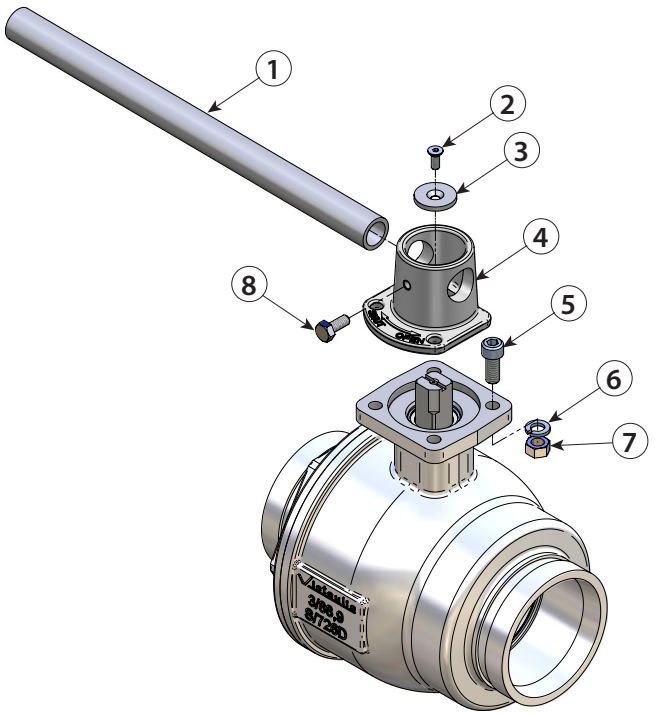
HANDLE KIT INSTALLATION FOR THE 2-INCH/DN50 VALVE SIZE



Item	Qty.	Description
1	1	Handle
2	1	Flat Socket Head Cap Screw
3	1	Washer
4	1	Hex Socket Head Cap Screw - Open and Closed Stop
5	1	Spring-Lock Washer - Open and Closed Stop
6	1	Hex Nut - Open and Closed Stop

1a. Install the hex socket head cap screw for the open and closed stop (Item 4) into the hole in the valve body flange, as indicated in the drawing shown above.
1b. Apply the spring-lock washer (Item 5) and tighten the hex nut for the open and closed stop (Item 6) onto Item 4. Tighten the hex nut until the lock washer is compressed completely.
2. Place the handle (Item 1) over the valve stem and onto the valve body flange in the orientation indicated in the drawing shown above.
3. Install the washer (Item 3) onto the valve stem and handle.
4. Tighten the flat socket head cap screw (Item 2) into the stem to retain the washer (Item 3) and handle (Item 1).
5. Operate the handle to verify proper installation.

HANDLE KIT INSTALLATION FOR THE 3-INCH/DN80 VALVE SIZE



Item	Qty.	Description
1	1	Stainless Steel Pipe
2	1	Flat Socket Head Cap Screw
3	1	Washer
4	1	Handle
5	1	Hex Socket Head Cap Screw - Open and Closed Stop
6	1	Spring-Lock Washer - Open and Closed Stop
7	1	Hex Nut - Open and Closed Stop
8	1	Bolt

1a. Install the hex socket head cap screw for the open and closed stop (Item 5) into the hole in the valve body flange, as indicated in the drawing shown above.
1b. Apply the spring-lock washer (Item 6) and tighten the hex nut for the open and closed stop (Item 7) onto Item 5. Tighten the hex nut until the lock washer is compressed completely.
2. Place the handle (Item 4) over the valve stem and onto the valve body flange in the orientation indicated in the drawing shown above.
3. Install the washer (Item 3) onto the valve stem and handle.
4. Tighten the flat socket head cap screw (Item 2) into the stem to retain the washer (Item 3) and handle (Item 4).
5. Insert the stainless steel pipe (Item 1) through the handle (Item 4).
6. Install the bolt (Item 8) into the handle and tighten to retain the stainless steel pipe (Item 1).
7. Operate the handle to verify proper installation.

⚠ DANGER

- **When directly connecting a Victaulic End Cap to a Victaulic Ball Valve, use only a tapped end cap with a ball valve that can be opened to verify if the system is depressurized.**
- **Pressure shall be vented through the end cap's ball valve before attempting to remove the cap.**

Failure to follow these instructions could result in death or serious personal injury and property damage.