Victaulic[®] Vic-300 MasterSeal[™] Shouldered Butterfly Valve Series 761SC





Series 761SC

with 10-Position Handle





Series 761SC

with Gear Operator

1.0 PRODUCT DESCRIPTION

Available Sizes

• 2-8"/DN50-DN200.

Maximum Working Pressure

- Accommodates pressures ranging from full vacuum (29.9 in Hg/760 mm Hg) up to 300 psi/2100 kPa/21 bar.
- Full working pressure for bi-directional, dead end services.

Operating Temperature

• Dependent on seat selection from section 3.0.

Application

• For use in carbon steel piping systems.

End Preparation

• Shouldered end pipe.

Actuation Options

- Standard ISO 5211 mounting flange.
- 10-position handle (2 6"/DN50 165.1 mm).
 - Infinitely variable service with memory stop; Padlockable.
- Lever lock handle (2 8"/DN50 DN200).
 - Infinitely variable service with memory stop; Padlockable.
- Gear operator (2 8"/DN50 DN200).
- Additional 2"/50 mm neck extension available when more than 2"/50 mm of insulation is needed.
- 4 1/2"/120 mm-long handle wheel input shaft extension (2 8"/DN50 DN200).

NOTES

- A padlockable valve refers to those valves which can be padlocked to lockout equipment for preventing inadvertent valve operation. When used in conjunction with an appropriate lockout/tagout system, multiple padlocks may be used. The valve may be padlocked either fully open or fully closed.
- A tamper-resistant option is also available, which is meant to deter theft, vandalism or other malicious activity. The handles and associated components are
 assembled with tamper-resistant fasteners which are designed for one-time assembly. Attempts to defeat the padlock by partial disassembly of the valve will
 likely result in evidence of such activity. The valve may be padlocked either fully open or fully closed.
- Hand wheel input shaft extensions are not for use with chain wheels.

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

| System No. | Location | Spec Section | Paragraph | |
|--------------|----------|--------------|-----------|--|
| Submitted By | Date | Approved | Date | |

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2.0 CERTIFICATION/LISTINGS

Product designed and manufactured under Victaulic's Quality Management System, as certified by LPCB in accordance with ISO-9001:2008. Valve construction and performance meet or exceed MSS-SP-67 requirements.

3.0 SPECIFICATIONS – MATERIAL

Series 761SC Vic-300 MasterSeal[™] Shouldered Butterfly Valve

Body: Ductile iron conforming to ASTM A536, Grade 65-45-12.

End Face, 2 – 6"/DN50 – 165.1 mm: Ductile iron conforming to ASTM A536, Grade 65-45-12.

Seal Retainer, 8"/DN200: Ductile iron conforming to ASTM A536, Grade 65-45-12.

Coating: Black alkyd enamel.

Disc: (specify choice)

- Standard: Ductile iron conforming to ASTM A536, Grade 65-45-12, with electroless nickel coating conforming to ASTM B733.
- Optional: Stainless steel, conforming to ASTM A351, Grade CF8M.
- Optional: 2 6"/DN50 165.1 mm only Aluminum bronze, Grade C95500.

Seat: (specify choice)

Victaulic EPDM

EPDM (Green color code). Temperature range –30°F to +230°F/–34°C to +110°C. NOT RECOMMENDED FOR PETROLEUM SERVICES OR STEAM SERVICES.

Victaulic Nitrile

Nitrile (Orange color code). Temperature range +10°F to +150°F/–12°C to +65°C. Not compatible for hot water services over +150°F/+66°C or for hot dry air over +140°F/60°C. NOT RECOMMENDED FOR HOT WATER SERVICES OR STEAM SERVICES.

Victaulic Fluoroelastomer

Fluoroelastomer (Blue color code). Temperature range +20°F to +300°F/–7°C to +149°C. NOT RECOMMENDED FOR HOT WATER SERVICES OR STEAM SERVICES

Stems:

- Standard: 416 stainless steel conforming to ASTM A582.
- Optional¹: 17-4PH stainless steel conforming to ASTM A564.

Stem Seal Cartridge:

- Standard: C36000 brass.
- Optional¹: 17-4PH stainless steel conforming to ASTM A564.
- ¹ Contact Victaulic for available material combination options.

Bearings: Fiberglass and 316 stainless steel with TFE lining.

Stem Seals: Furnished in same materials as seat.

Stem Retaining Ring: Carbon steel.



3.0 SPECIFICATIONS – MATERIAL (CONTINUED)

10 Position Handle:

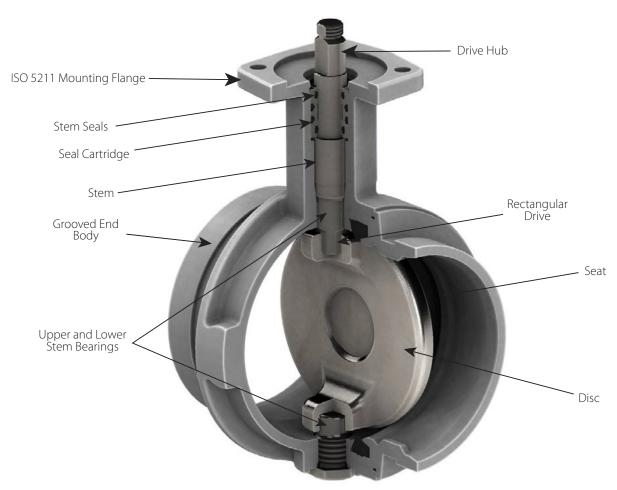
□ For sizes 2 – 6"/DN50 – 165.1 mm: Zinc-plated carbon steel handle with zinc-plated carbon steel latch plate and zinc-plated carbon steel fasteners, infinitely variable, padlockable and includes memory stop. Optionally available with tamper-resistant hardware.

Lever Lock Handle

- □ For sizes 2 8"/DN50 DN200: Zinc-plated carbon steel handle with zinc-plated carbon steel latch plate and carbon steel fasteners.
- □ For sizes 2 8"/DN50 DN200: Infinitely variable, padlockable and includes memory stop. Optionally available with tamper-resistant hardware.

Gear Operator (with options below):

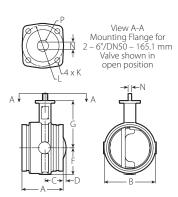
- Hand wheel with memory stop
- Hand wheel with chainwheel
- □ 2" square nut
- Thermal barrier





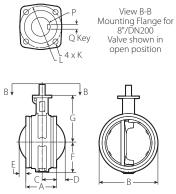
DIMENSIONS 4.0

Series 761SC Vic-300 MasterSeal[™] Shouldered Butterfly Valve – Bare Valve



Bare Valve

2 - 6"/DN50 - 165.1 mm



P

Bare Valve 8"/DN200



Mounting Flange Recess 2 - 8"/DN50 - DN200

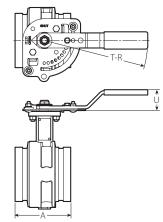
| Si | ze | | | | Dim | ensions | 1 | | | Weight | _ |
|--------------|-------------------------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|-----------------------|
| Nominal | Actual Outside Diameter | A End to End | В | с | D | E | F | G | Q-Key | Approx. (Each) | ISO 5211 |
| inches DN | inches mm | inches mm | inches mm | inches mm | inches mm | inches mm | inches mm | inches mm | inches mm | lb kg | Flange Designation |
| 2 | 2.375 | 3.38 | 3.25 | 1.50 | _ | _ | 1.88 | 3.88 | _ | 3.5 | Beenghatteri |
| DN50 | 60.3 | 85 | 83 | 37 | _ | _ | 46 | 97 | _ | 1.6 | F07 |
| 3 | 3.500 | 3.88 | 4.50 | 1.88 | _ | - | 2.38 | 4.50 | _ | 6.0 | 505 |
| DN80 | 88.9 | 97 | 114 | 45 | _ | _ | 60 | 114 | _ | 2.7 | F07 |
| 4 | 4.500 | 4.75 | 5.50 | 2.25 | _ | - | 2.88 | 5.25 | _ | 9.3 | 507 |
| DN100 | 114.3 | 119 | 139 | 55 | _ | - | 73 | 133 | _ | 4.2 | F07 |
| | 6.500 | 6.00 | 7.38 | 2.63 | 0.50 | - | 3.88 | 6.75 | _ | 20.0 | F07 |
| | 165.1 | 151 | 185 | 66 | 11 | - | 97 | 172 | _ | 9.1 | F07 |
| 8 | 8.625 | 5.63 | 10.00 | 2.38 | 1.50 | 0.88 | 5.00 | 8.00 | 0.188 x .88 | 34.3 | F07 |
| DN200 | 219.1 | 140 | 254 | 59 | 37 | 20 | 127 | 203 | 4.78 x 22.35 | 15.6 | F07 |

| Si | ze | | | | | Dimens | ions | | | | Weight | |
|--------------|-------------------------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|-----------------------|
| Nominal | Actual Outside Diameter | A End to End | н | J | к | L | м | N | Р | Q-Key | Approx. (Each) | ISO 5211 |
| inches DN | inches mm | inches mm | inches mm | inches mm | inches mm | inches mm | inches mm | inches mm | inches mm | inches mm | lb kg | Flange Designation |
| 2 | 2.375 | 3.38 | 2.25 | 0.13 | 0.38 | 2.88 | 0.88 | 0.38 | 0.43 | _ | 3.5 | 507 |
| DN50 | 60.3 | 85 | 55 | 3 | 9 | 70 | 22 | 8 | 11 | _ | 1.6 | F07 |
| 3 | 3.500 | 3.88 | 2.25 | 0.13 | 0.38 | 2.88 | 0.88 | 0.38 | 0.50 | _ | 6.0 | F07 |
| DN80 | 88.9 | 97 | 55 | 3 | 9 | 70 | 22 | 8 | 11 | _ | 2.7 | F07 |
| 4 | 4.500 | 4.75 | 2.25 | 0.13 | 0.38 | 2.88 | 0.88 | 0.43 | 0.63 | - | 9.3 | F07 |
| DN100 | 114.3 | 119 | 55 | 3 | 9 | 70 | 23 | 11 | 15 | - | 4.2 | F07 |
| | 6.500 | 6.00 | 2.25 | 0.13 | 0.38 | 2.88 | 1.13 | 0.50 | 0.75 | _ | 20.0 | F07 |
| | 165.1 | 151 | 55 | 3 | 9 | 70 | 29 | 13 | 19 | _ | 9.1 | F07 |
| 8 | 8.625 | 5.63 | 2.25 | 0.13 | 0.38 | 2.88 | 1.38 | - | 0.88 | 0.188 x .88 | 34.3 | F07 |
| DN200 | 219.1 | 140 | 55 | 3 | 9 | 70 | 33 | - | 22 | 4.78 x 22.35 | 15.6 | 107 |

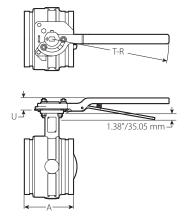


4.1 **DIMENSIONS**

Series 761SC Vic-300 MasterSeal[™] Shouldered Butterfly Valve – With Handle



10-Position Handle with Memory Stop 2-6"/DN50 -165.1 mm



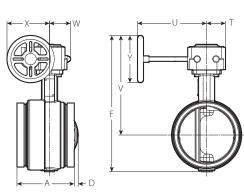
Lever Lock Handle with Memory Stop 2 – 8"/DN50– DN200

| s | ize | | Dimensions | | Weight - Approx (Each) | | |
|---------|---------------------------------------|--------|---------------------|--------|----------------------------------|----------------------------|--|
| Nominal | Actual Outside Nominal Diameter | | A End to End T-R | | Valve with 10-Position Handle | Valve with Lever Handle | |
| inches | inches | inches | inches | inches | inches | lb | |
| DN | mm | mm | mm | mm | mm | kg | |
| 2 | 2.375 | 3.38 | 7.00 | 1.63 | 4.4 | 6.0 | |
| DN50 | 60.3 | 85 | 178 | 40 | 2.0 | 2.7 | |
| 3 | 3.500 | 3.88 | 7.00 | 1.63 | 6.9 | 8.5 | |
| DN80 | 88.9 | 97 | 178 | 40 | 3.1 | 3.9 | |
| 4 | 4.500 | 4.75 | 8.50 | 1.63 | 10.8 | 11.8 | |
| DN100 | 114.3 | 119 | 216 | 40 | 4.9 | 5.4 | |
| | 6.500 | 6.00 | 12.00 | 1.63 | 22.0 | 23.2 | |
| | 165.1 | 151 | 305 | 40 | 10.0 | 10.5 | |
| 8 | 8.625 | 5.63 | 14.00 | 1.50 | _ | 37.5 | |
| DN200 | 219.1 | 140 | 356 | 38 | - | 17.0 | |

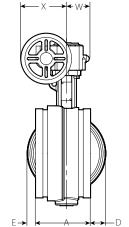


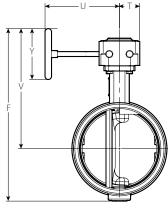
4.2 **DIMENSIONS**

Series 761SC Vic-300 MasterSeal[™] Shouldered Butterfly Valve – With Gear Operator



Gear Operator 2 – 6"/DN50 – 165.1 mm





Gear Operator 8"/DN200

| Si | ize | | | | | Dime | nsions | | | | | Weight |
|---------|-------------------------------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
| Nominal | Actual Outside Diameter | A End to End | D | Е | F | т | U | v | w | x | Y | Approx. (Each) |
| inches | inches | inches | inches | inches | inches | inches | inches | inches | inches | inches | inches | lb |
| mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | kg |
| 2 | 2.375 | 3.38 | _ | - | 8.63 | 1.63 | 4.75 | 6.88 | 1.88 | 3.63 | 4.00 | 6.0 |
| DN50 | 60.3 | 85 | - | - | 220 | 40 | 121 | 174 | 48 | 93 | 100 | 2.7 |
| 3 | 3.500 | 3.88 | _ | _ | 9.88 | 1.63 | 4.75 | 7.25 | 1.88 | 3.63 | 4.00 | 8.5 |
| DN80 | 88.9 | 97 | - | - | 251 | 40 | 121 | 191 | 48 | 93 | 100 | 3.9 |
| 4 | 4.500 | 4.75 | _ | _ | 11.25 | 1.63 | 4.75 | 8.25 | 1.88 | 3.63 | 4.00 | 11.8 |
| DN100 | 114.3 | 119 | _ | - | 284 | 40 | 121 | 210 | 48 | 93 | 100 | 5.4 |
| | 6.500 | 6.00 | 0.50 | - | 14.13 | 2.00 | 7.25 | 10.25 | 2.25 | 4.38 | 4.88 | 24.0 |
| | 165.1 | 151 | 11 | - | 359 | 50 | 183 | 262 | 56 | 113 | 125 | 10.9 |
| 8 | 8.625 | 5.63 | 1.50 | 0.88 | 16.63 | 2.00 | 7.25 | 11.50 | 2.25 | 4.38 | 4.88 | 38.3 |
| DN200 | 219.1 | 140 | 37 | 20 | 423 | 50 | 183 | 294 | 56 | 113 | 125 | 17.4 |



4.3 **DIMENSIONS**

Series 761SC Vic-300 MasterSeal[™] Shouldered Butterfly Valve

Accessories

Chainweels

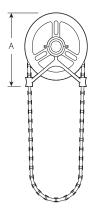
Chainweels are mounted to the gear operator hand wheels. Sprocket rim and guide arms are made of cast aluminum. Chain is galvanized steel.

HOW TO ORDER:

Specify type valve and operator by valve numbering system shown on page 11

Always specify length of chain required.

For insulation and locking device, contact Victaulic for details. Hand wheel input shaft extensions are not for use with chain wheels.



Chain Wheel and Guide with Safety Cable Kit

| Size | | Weight | | |
|-----------|------------------|----------------------------|--------|-----------------------|
| Nominal | Sprocket Size | Chain Wheel Size (Dia.) | А | Approximate (Each) |
| inches | inches | inches | inches | lb |
| mm | | mm | mm | kg |
| 2 – 4 | 0 | 4.00 | 4.63 | 2.0 |
| 50 – 100 | | 102 | 118 | 0.9 |
| 6 – 8 | 1 | 5.75 | 6.38 | 4.0 |
| 150 – 200 | | 146 | 162 | 1.8 |



5.0 PERFORMANCE

Size

Nominal

inches

DN

2

DN50

3

DN80

4

DN100

8

DN200

Actual

Outside

Diameter

inches

mm

2.375

60.3

3.500

88.9 4.500

114.3 6.500

165.1

8.625

219.1

Series 761SC Vic-300 MasterSeal[™] Shouldered Butterfly Valve

 C_v/K_v values for flow of water at +60°F/+16°C with various disc positions are shown in the table below. Formulas for C_v/K_v values:

Κv

(Full

Open)

99

379

707

1552

2931

| $\Delta P = Q^2$ | Where: | $\Delta P = O^2$ |
|----------------------------------|--|--------------------------------------|
| C _v ² | Q = Flow (GPM) $\Delta P = Pressure Drop (psi)$ | $\frac{1}{K_{v}^{2}}$ |
| $Q = C_v \times \sqrt{\Delta P}$ | $C_v = Flow Coefficient$ | $Q = K_{\mu} \times \sqrt{\Delta P}$ |

Cv

(Full

Open)

115

440

820

1800

3400

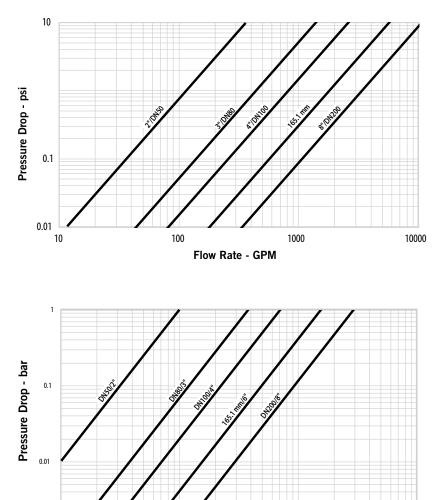
| Where: |
|-----------------------------------|
| Q = Flow (m ³ /hr) |
| $\Delta P = Pressure Drop (Bar)$ |
| K _v = Flow Coefficient |



5.1 PERFORMANCE

Series 761SC Vic-300 MasterSeal[™] Shouldered Butterfly Valve

Flow Characteristics



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100

1000

Flow Rate - m3/hr

10000

0.001 L



5.1 PERFORMANCE (CONTINUED)

| Si | ze | | | Flow Coefficients – C _v /K _v | | | | | | | | | | | |
|--------------|------------------------------------|------|------------------------------|--|------|------|----------|-----|-----|-----|-----|-----|-----|--|--|
| | | | Disc Position (Degrees Open) | | | | | | | | | | | | |
| | | 9 | 0 | 7 | 0 | 6 | 0 | 5 | 0 | 4 | 0 | 30 | | | |
| Nominal | inal Actual Outside Diameter | | 1 | | / | | ^ | | | | | | | | |
| inches DN | inches mm | Cv | K٧ | Cv | K٧ | Cv | K٧ | Cv | K٧ | C٧ | K٧ | Cv | Kv | | |
| 2 DN50 | 2.375 60.3 | 115 | 99 | 60 | 52 | 36 | 31 | 23 | 20 | 14 | 12 | 7 | 6 | | |
| 3 DN80 | 3.500 88.9 | 440 | 379 | 230 | 198 | 140 | 121 | 90 | 78 | 50 | 43 | 26 | 22 | | |
| 4 DN100 | 4.500 114.3 | 820 | 707 | 430 | 321 | 250 | 216 | 160 | 138 | 100 | 86 | 50 | 43 | | |
| | 6.500 165.1 | 1800 | 1552 | 940 | 810 | 560 | 483 | 360 | 310 | 220 | 190 | 110 | 95 | | |
| 8 DN200 | 8.625 219.1 | 3400 | 2931 | 1770 | 1526 | 1050 | 905 | 670 | 578 | 410 | 353 | 200 | 172 | | |

Valve Torque Requirements

| 9 | Size | | Torque – Inch Pounds/Newton Meters | | | | | | | | | |
|--------------|----------------------------|------|------------------------------------|--------|--------|--------|--------|--|--|--|--|--|
| Nominal | Actual Outside Diameter | | Differential Pressure – psi/bar | | | | | | | | | |
| inches DN | inches mm | 50/3 | 100/7 | 150/10 | 200/14 | 232/16 | 300/21 | | | | | |
| 2 | 2.375 | 53 | 65 | 78 | 90 | 100 | 115 | | | | | |
| DN50 | 60.3 | 6 | 7 | 9 | 10 | 11 | 13 | | | | | |
| 3 | 3.500 | 150 | 170 | 190 | 210 | 230 | 260 | | | | | |
| DN80 | 88.9 | 17 | 19 | 22 | 24 | 26 | 29 | | | | | |
| 4 | 4.500 | 220 | 250 | 280 | 310 | 330 | 370 | | | | | |
| DN100 | 114.3 | 25 | 28 | 32 | 35 | 37 | 42 | | | | | |
| | 6.500 | 410 | 470 | 540 | 600 | 640 | 730 | | | | | |
| | 165.1 | 46 | 53 | 61 | 68 | 72 | 83 | | | | | |
| 8 | 8.625 | 540 | 680 | 820 | 950 | 1040 | 1230 | | | | | |
| DN200 | 219.1 | 61 | 77 | 93 | 107 | 118 | 139 | | | | | |

Source:

These torque values were derived from test data with non-lubricated valves in water at ambient temperatures with EPDM seals. For other material and service conditions, apply a suitable service factor.

Torque Factors:

All torque values are for normal conditions (i.e., the valve is operated at least once a quarter, disc corrosion is expected to be minor, the media is clean and nonabrasive, and the chemical effects upon the elastomer are minor).

Typical Fluid Torque Factors Commonly Used in the Industry:

Water: 1.0; Lubricated service: 0.8; Dry gases: Lubricated nitrile "T" seat seals may be specified for dry gases wherever chemically appropriate. See material torque factor below.

Material Torque Factors:

EPDM = 1.0; Fluoroelastomer = 1.2; Nitrile = 0.8

Cycling Factor:

Valve torque will typically increase and actuator output decrease as the valve is cycled. A factor of 1.5 should be applied for when total valve cycles are expected to exceed 5,000.



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5.1 PERFORMANCE (CONTINUED)

Actuation Factor:

A factor should be added to account for potential drift in the output of the actuator due to actuator performance, misalignment or external inputs (i.e., air or power supply). For this, a factor of up to 1.25 may be used.

Combining Torque Factors:

When multiple torque factors apply, they are combined by multiplying them. Example: For an EPDM seal and a 5,000 cycle factor the combined factor would be $1.0 \times (1.5) = 1.5$.

NOTE

- Under certain high flow conditions, the hydrodynamic torque can exceed the seating torque. Large butterfly valves are not recommended for use in a free discharge condition, such as filling an empty line with fluid at the full rated pressure.
- Contact Victaulic for other services.

5.2 PERFORMANCE

Series 761SC Vic-300 MasterSeal[™] Shouldered Butterfly Valve

Typical Specifications

Butterfly valves 2 – 8"/DN50 – DN200 shall be rated to 300 psi/2068 kPa/21 bar and be suitable for bi-directional and dead-end service from full vacuum to full-rated pressure. Body material shall be ductile iron with blowout proof stainless steel stems and electroless nickel coated ductile iron disc. Seat material shall be EPDM, lubricated nitrile or fluoroelastomer, and have a full 360° continuous contact with the seating surface. Stem seals shall be of the same material grade as the seats. Disc shall be offset from the centerline of the stems and shall be connected to the stem without the use of fasteners or pins. Valve ends shall be shouldered. Valve shall have standard ISO flange mounting for ease of actuation. Operators shall be as specified by choice in valve table. The standard handle valve 2 – 8"/DN50 – DN200 shall include latch lock, infinitely variable and memory stop features. Manufacturer – Victaulic – Series 761SC Vic-300 MasterSeal Valve or approved equal.

Numbering System

| | | | | V - 603 - | 761 S E | - 2 |
|------|---|---------------------------------|--------|------------------------|------------------------------------|---|
| Туре | Actual OD in/mm | Size Code | Series | Disc/Stem | Seat | Operator |
| V | 2.375/60.3 3.500/88.9 4.500/114.3 6.500/165.1 8.625/219.1 | 603 889 114 165 219 | 761 | S - Ductile Iron/416SS | E - EPDM T - Lubricated Nitrile | 2 - 10-Position handle with memory stop 3 - Gear operator 8 - Lever lock with tamper resistant device 9 - Gear operator with memory stop |



5.2 PERFORMANCE (CONTINUED)

Important Installation Considerations

When installing a Victaulic butterfly valve into a piping system, follow the instructions supplied with the coupling. Refer to the notes below for applications/limitations.

When using butterfly valves for throttling service, Victaulic recommends the disc be positioned no less than 30 degrees open. For best results, the disc should be between 30 and 70 degrees open. High pipeline velocities and/or throttling with the disc less than 30 degrees open may result in noise, vibration, cavitation, severe line erosion, and/or loss of control. For details regarding throttling services, contact Victaulic.

Victaulic recommends that flow velocities for water service are limited to 10 ft. per sec./3 m per sec. When higher flow velocities are necessary, contact Victaulic. When dealing with flow media other than water, contact Victaulic.

Victaulic recommends good piping practices and installing the valve five pipe diameters downstream of sources of irregular flow, such as pumps, elbows and control valves. If not practical due to space constraints, the system should be designed to locate and orient the valve to minimize the impact of dynamic torque and valve life.



DO NOT INSTALL BUTTERFLY VALVES INTO THE SYSTEM WITH THE DISC IN THE FULLY OPEN POSITION.



6.0 NOTIFICATIONS



- Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Wear safety glasses, hardhat, and foot protection.

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

7.0 REFERENCE MATERIALS

I-100: Victaulic Field Installation Handbook

I-SC77: Victaulic Style SC77 Installation-Ready™ Coupling for Shouldered Pipe Installation Instructions

I-SC85: Victaulic Style SC85 Coupling for Shouldered Pipe Installation Instructions

I-VIC300MS: Victaulic Vic-300 MasterSeal™ Butterfly Valve Series 761/461 Installation and Maintenance Manual

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, and the applicable building codes and related regulations as well as Victaulic performance, maintenance, safety, and warning instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, installation guide, or this disclaimer.

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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.

Installation

Reference should always be made to the Victaulic installation handbook or installation instructions of the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

Warranty

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

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