Victaulic Butterfly Valve Series 700





1.0 PRODUCT DESCRIPTION

Available Sizes

• $1\frac{1}{2} - 6$ "/DN40 - DN150

Maximum Working Pressure

• 200 psi/1400 kPa/14 bar

Operating Temperature

• Dependent on seat selection from section 3.0

Application

• For use in carbon steel, ductile iron, and plastic piping systems

2.0 CERTIFICATION/LISTINGS

Not applicable. Contact Victaulic with any questions.

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

System No.	Location	
Submitted By	Date	

Spec Section	Paragraph	
Approved	Date	



3.0 SPECIFICATIONS - MATERIAL

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

Body: Carbon steel, elastomer lined

Coating: Black alkyd enamel **Seat/Liner:** (specify choice)

Victaulic EPDM

EPDM (Green color code). Temperature range -30° F to $+230^{\circ}$ F/ -34° C to $+110^{\circ}$ C. NOT RECOMMENDED FOR PETROLEUM SERVICES OR STEAM SERVICES.

Victaulic Nitrile

Nitrile (Orange color code). Temperature range -20° F to $+180^{\circ}$ F/ -29° C to $+82^{\circ}$ C. Not compatible for hot water services over $+150^{\circ}$ F/ $+66^{\circ}$ C or for hot dry air over $+140^{\circ}$ F/ 60° C. NOT RECOMMENDED FOR HOT WATER SERVICES OR STEAM SERVICES.

Upper and Lower Stem: 416 stainless steel

Disc: (specify choice)

Standard: Aluminum bronze Optional: 316 stainless steel

Handle: Cast ductile iron **O-Ring:** Same as Seat

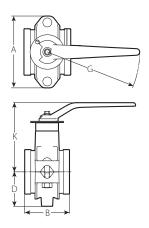
Track Bolts: Electroplated steel

Nuts: Electroplated steel



4.0 DIMENSIONS

Series 700 Butterfly Valve



 $1\,1\!\!\!/_{\!\!2}-6"/40-150\,mm$ (Typical)

Size		Dimensions				Weight	
Nominal	Actual Outside Diameter	Α	В	D	G	К	Approximate (Each)
inches	inches	inches	inches	inches	inches	inches	lb
DN	mm	mm	mm	mm	mm	mm	kg
1 ½	1.900	3.63	3.38	1.63	5.50	4.44	2.8
DN40	48.3	92.2	85.9	41.4	139.7	112.8	1.3
2	2.375	4.06	3.19	1.87	5.50	4.71	3.3
DN50	60.3	103.1	81.0	47.5	139.7	119.6	1.5
21/2	2.875	4.87	3.81	2.50	7.00	5.31	6.4
	73.0	123.7	96.8	63.5	177.8	134.9	2.9
3	3.500	5.62	3.81	2.75	7.00	5.62	6.8
DN80	88.9	142.7	96.8	69.9	177.8	142.7	3.1
4	4.500	7.00	4.56	3.50	9.00	6.69	12.1
100	114.3	177.8	115.8	88.9	228.6	179.9	5.5
5	5.563	8.50	5.81	4.00	12.00	8.25	26.1
	141.3	215.9	147.6	101.6	304.8	209.6	11.8
6	6.625	9.50	5.81	4.50	12.00	8.78	32.5
DN150	168.3	241.3	147.6	114.3	304.8	223.0	14.7
	6.500	9.50	5.81	4.50	12.00	8.78	30.5
	165.1	241.3	147.6	114.3	304.8	223.0	13.8

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5.0 PERFORMANCE

Series 700 Butterfly Valve

Cv values for flow of water at $+60^{\circ}\text{F/}+16^{\circ}\text{C}$ with single disc position is shown in the table below.

Formulas for Cv/Kv values:

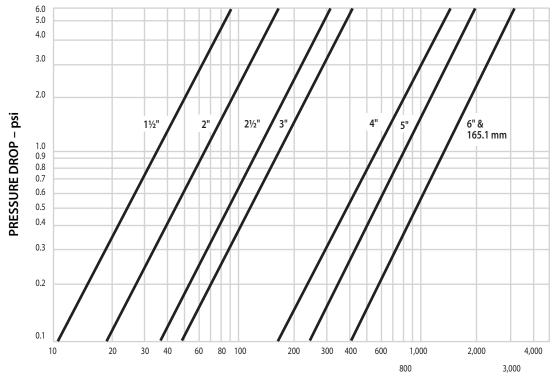
$$\begin{array}{ccc} \Delta P = \underline{Q^2} & \textbf{Where:} \\ \hline C_v^2 & Q = Flow \text{ (GPM)} \\ \Delta P = Pressure \text{ Drop (psi)} \\ Q = C_v \times \sqrt{\Delta P} & C_v = Flow \text{ Coefficient} \end{array}$$

Valve	Valve Size	
		Disc Position (Degrees open) 90
Nominal	Actual Outside Diameter	+
inches DN	inches mm	Cv Kv
11/2	1.900	36
DN40	48.3	31
2	2.375	70
DN50	60.3	61
21/2	2.875 73.0	120 104
3	3.500	180
DN80	88.9	156
4	4.500	520
DN100	114.3	450
5	5.563 141.3	800 692
6	6.625	1300
DN150	168.3	1125
	6.500	1300
	165.1	1125

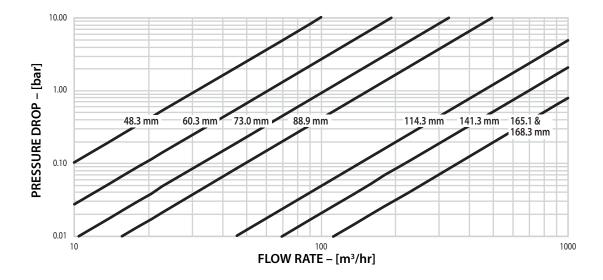


5.1 PERFORMANCE

Flow Characteristics



FLOW RATE - G.P.M.



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6.0 NOTIFICATIONS

WARNING













- · 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

02.06: Victaulic Potable Water Approvals for ANSI/NSF I-100: Victaulic Field Installation Handbook

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, 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.

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