VICTAULIC® IS AN ISO 9001 CERTIFIED COMPANY

Series 608 Copper Connection Butterfly Valves

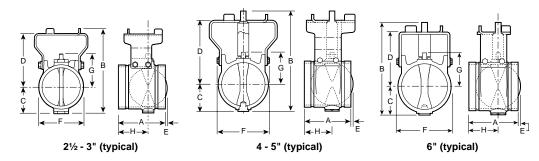
PRODUCT DESCRIPTION



Victaulic Series 608 butterfly valves are designed to provide bubble-tight shut-off to 300 psi (2065 kPa). This grooved end valve is quickly and easily joined to the piping system by utilizing Style 606 couplings from 2½ - 6" (66,7 - 155,6 mm) sizes. The valve features a double-seal disc design with a resilient elastomeric coating bonded to the ductile iron disc core. The disc drive hub is integrally cast as part of the disc and can be actuated by a manual lever, gear, pneumatic, electric or hydraulic operators. Dead end service is provided to full working pressure in both directions.

Sealing and positive shut-off are accomplished by a double ring seal which is integrally molded on the disc. This results in superior sealing performance with low torque requirements.

DIMENSIONS



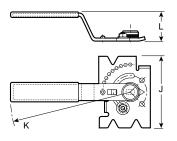
TUBING									
SIZE Nominal Inches Actual mm	End to End A	End Height		D	E	F	G	Н	Approx. Wgt. Ea. w/o Oper. Lbs./kg
2 ¹ / ₂	3.77	6.12	1.81	3.02	-	2.63	2.25	2.31	4.4 C
66,7	96	155	46	77		67	57	59	2,0
3	3.77	6.58	2.06	3.33	0.08	3.13	2.54	2.31	5.1 c
79,4	96	167	52	85		79	65	59	2,3
4	4.63	9.25	2.75	5.15	0.13	4.13	3.19	2.82	10.5 c
104,8	118	235	70	131	3	105	81	72	4,8
5	5.88	10.13	3.12	5.67	0.50	5.13	3.75	4.00	14.0 c
130,2	149	257	79	144	13	130	95	102	6,4
6	5.88	11.15	3.62	6.25	1.00	6.13	4.16	4.00	19.0 c
155,6	149	283	92	159	25	156	106	102	8,6

c = Bronze casting

ictaulic

DIMENSIONS

Lever Lock/Infinitely Variable Handle

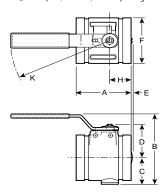


SIZE Nominal Inches		Approx. Wgt. Ea.		
Actual mm	J	К	L	Lbs./kg
2 ¹ / ₂	4.20	7.15	1.70	1.5
66,7	107	182	43	0,7
3	4.20	7.15	1.70	1.5
79,4	107	182	43	0,7
4	7.00	10.53	2.50	1.5
104,8	178	267	64	0,7
5	7.00	10.53	2.50	1.5
130,2	178	267	64	0,7
6	7.00	12.03	2.50	1.5
155,6	178	306	64	0,7

NOTE: Handles for 21/2 - 6" (66,7 - 155,6 mm) valves come complete with hardware for both lever lock and infinitely variable handle plus memory stop.

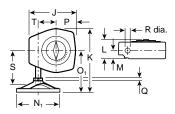
Two Position Handle

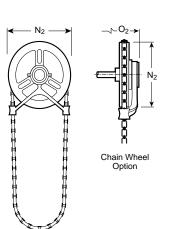
21/2 - 3" (66,7 - 79,4 mm) only



SIZE	E	Dimensions Inches/ millimeters										
Nomin Inche Actual	es	End to End A	Overall Hgt. B	С	D	E	F	н	К	Aprx. Wgt.Ea. Lbs. kg		
2 ¹ / ₂ 66,7		3.77 96	4.77 121	1.81 46	2.40 61	-	2.88 73	1.46 37	6.83 173	2.9 1,3		
3 79,4	4	3.77 96	5.39 137	2.06 52	2.80 71	0.08 2	3.25 83	1.46 37	6.83 173	3.6 1,6		

Gear Operator

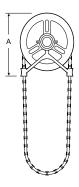




SIZE Nom.	Inches/millimeters									_No.	Aprx.				
Inches Actual					Hand	wheel	Chain Wheel						Turns to	Wgt. Ea. Lbs.	
mm	J	K	L	М	N ₁	01	N ₂	O ₂	P	Q	R	S	T	Close	kg
2 ¹ / ₂ 66,7	4.23 107	5.99 152	2.15 55	2.12 54	3.12 79	3.87 98	7.50 191	9.25 235	1.90 48	-	-	-	1.66 42	10	2.6 1,2
3 79,4	4.23 107	5.99 152	2.15 55	2.12 54	3.12 79	3.87 98	7.50 191	9.25 235	1.90 48	-	-	-	1.66 42	10	2.6 1,2
4 104,8	5.19 132	8.13 207	2.36 60	1.13 29	4.00 102	5.75 146	7.50 191	9.25 235	2.19 56	0.38 10	0.63 16	5.00 127	1.84 47	7	4.5 2,0
5 130,2	5.19 132	8.13 207	2.36 60	1.13 29	4.00 102	5.75 146	7.50 191	9.25 235	2.19 56	0.38 10	0.63 16	5.00 127	1.84 47	7	4.5 2,0
6 155,6	5.19 132	9.25 235	2.36 60	1.13 29	8.00 203	6.87 175	9.00 229	9.50 241	2.19 56	0.38 10	0.63 16	5.00 127	1.84 47	7	4.5 2,0

ACCESSORIES

Gear Operator



Chain Wheel and Guide

Chain wheels are mounted to the gear operator handwheels. Sprocket rim and guide arms are made of cast aluminum. Chain is galvanized steel. All gear operators are available with memory stops.

VALVE SIZE		Dimensions Inches/millimeters	Approx. Weight Ea.	
Nominal In.	Sprocket	Handwheel	A	Lbs.
Actual mm	Size	Size (Diameter)		kg
2 ¹ / ₂ - 5	0	4.00	4.63	3.5
66,7 - 130,2		102	118	1,6
6	2	8.00	10.5	5.0
155,6		203	267	2,6

HOW TO ORDER:

Specify operator by valve number system shown on back page.

Always specify length of chain required.

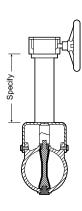
AUTOMATED VALVES



Victaulic butterfly valves can be provided with a wide variety of pneumatic, hydraulic or electric operators and accessories including 3-way configurations.

Please contact Victaulic for the name of your nearest Victaulic authorized valve automation center.

STEM AND DRIVE HUB EXTENSIONS



Stem Extensions

Stem extensions are used for remote operations of the valve. Lever, gear or power actuators can be attached to the top of the extension.

All extension components are carbon steel (stainless steel also available).

Specify extension length per drawing and identify valve by figure number to which the extension will be attached.



Drive Hub Extension Insulation

Series 608 valves with bracket mounted handles, operators or actuators are available with factory installed (removable) blown urethane insulation around the drive hub extension. This option provides a fully internally insulated bracket over the drive hub leaving only normal external areas to be insulated.

FLOW DATA

 C_V values for flow of water at +60°F (+16°C) with a fully open valve are shown in the table at right.

Formulas for CV Values:

$$\Delta P = \frac{Q^2}{{C_V}^2}$$

Where:

Q = Flow (GPM)

 $C_V = Flow Coefficient$

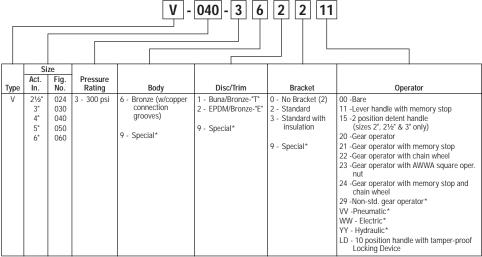
$$Q = C_V \times \sqrt{\Delta P}$$

 $\Delta P = Pressure Drop (PSI)$

Valve Size Inches/mm	C _v (Full Open)	Valve Size Inches/mm	C _∨ (Full Open)
2½ 66,7	325	5 130,2	1150
3 79,4	480	6 155,6	1850
4 104,8	600		

BUTTERFLY VALVE NUMBERING SYSTEM

Butterfly Valve Numbering System for Series 608



MATERIAL SPECIFICATIONS

Body: Bronze per CDA-836 (85-5-5-5).

Grade "E" EPDM

EPDM (Green color code). Temperature range -30°F to +230°F (-34°C to +110°C). Recommended for cold and hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL classified in accordance with ANSI/NSF 61 for cold +86°F (+30°C) and hot +180°F (+82°C) potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.

Grade "T" nitrile

Nitrile (Orange color code). Temperature range -20°F to +180°F (-29°C to +82°C). Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over +150°F (+66°C) or for hot dry air over +140°F (+60°C).

*Services listed are General Service Recommendations only. It should be noted that there are services for which these gaskets are not recommended. Reference should always be made to the latest Victaulic Gasket Selection Guide for specific gasket service recommendations and for a listing of services which are not recommended.

NOTE: When connecting butterfly valves to Style 641 Vic-Flange® adapters please contact Victaulic.

Drive Hub Adapter: Steel - black enamel coated

Upper Bearing/Lower Trunnion Seals: Same as Disc Coating

Trim: (Upper Bearing/Lower Trunnion) Naval brass Operator Bracket: Steel - black enamel coated Bracket Bolts/Washers: Steel - zinc plated

Operator (specify choice) 21/2 - 3" (66,7 - 79,4 mm)

Two-position detent manual handle: Steel - black enamel coated

 $2^{1}/_{2}$ - 6" (66.7 - 155.6 mm)

Manual lever lock/infinitely variable handle with memory stop: Steel - black enamel coated

Manual gear operator with handwheel:

· Optional: Memory Stop **Optional:** Chain Wheel

Electric actuator § Pneumatic actuator §

§ Sizing of actuator is dependent upon service. Contact Victaulic for details

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

⁽²⁾ Used with 2 position detent handle only *Details required