SERIES 761

Vic®-300 MasterSeal™ butterfly valves are designed for pressures ranging from vacuum to 300 psi/2065 kPa and for bi-directional, dead end services to full working pressure. The valve features a patented seat design that assures full 360° sealing. The pressure-enhanced seat compresses to form a larger seating area as the pressure increases. The seat design also contributes to the low breakaway torque capabilities of the MasterSeal valve.

Available in 2 – 12"/50 – 300 mm sizes the valve is offered with a standard ISO mounting flange to accept most gear and power actuators. Vic-300 MasterSeal butterfly valves 2 - 6"/50 - 150 mm are offered with a 10-position handle that may be configured for infinite variable service with memory lock stop and is pad-lockable. Sizes 8"/200 mm valves are



HANDLE WITH MEMORY STOP

available with a lever lock handle that may be configured for infinite variable service with memory stop and is padlockable. 2 – 12"/50 – 300 mm sizes are available with a gear operator and can easily be configured into three way assemblies. Vic-300 Masterseal butterfly valves accommodate 2"/50 mm of insulation. An additional 2" neck extension is available when more than 2"/50 mm of insulation is needed. A 4½"/120 mm long Hand Wheel Input Shaft Extension is available for valve sizes 2 - 8"/50 - 200 mm and a 31/2"/90 mm long Hand Wheel Input Shaft Extension is available for 10 – 12"/25 – 300 mm valve sizes. Note: Hand Wheel Input Shaft Extensions are not for use with Chain Wheels.

Available seats include EPDM for water services to +250°F/+121°C. Vic-300 MasterSeal valves are also offered with permanently lubricated Nitrile material that is recommended for oil, air, and gas services. For specific material specifications on varied services please request publication 05.01. For dry gas service, Victaulic recommends the lubricated nitrile option. Valves with standard disc and EPDM seat are UL classified to ANSI/NSF 61.

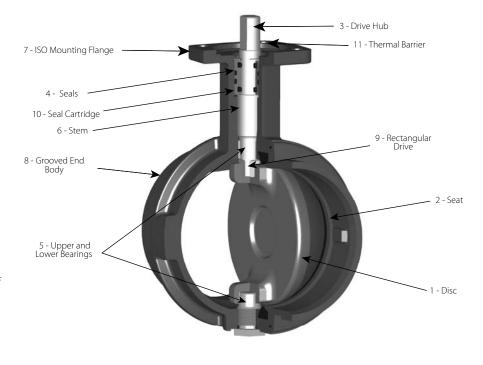
Victaulic also offers a tamper resistant option for 2 - 8"/50 - 200 mm size Vic-300 MasterSeal butterfly valves.

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 systems, multiple padlocks may be used. The valve may be padlocked either fully open or fully closed.

A tamper resistant option 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.

FEATURES

- 1 Disc Electroless nickel coated ductile iron. Optional:
 - Aluminum Bronze
 - · Stainless Steel
- 2 Seat Patented pressure enhanced rubber seat design
- 3 Drive Hub Designed to accept nearly all types of actuation
- 4 Stem Seals Prevents leakage of media.
- 5 **Upper and Lower Stem Bearings –** Helps maintain constant low torque values for the life of the valve.
- 6 Stem Blow out proof design utilizing stainless steel.
- 7 ISO 5211 Mounting Flange Accepts ISO standard actuators
 - 2 8"/50 200 mm are flange size F07
 - 10 12"/250 300 mm are flange size F10
- 8 Grooved End Body Reduces the weight of the valve and makes it easier to install.
- 9 Rectangular Drive Positive rectangular drive eliminates fasteners in the flow stream. Design prevents replacement errors.
- 10 **Seal Cartridge** Patented seal cartridge houses stem seals.
- 11 Thermal Barrier Reduces condensation on gear operators when installed in chilled water applications.



JOB/OWNER	CONTRACTOR	ENGINEER
System No.	Submitted By	Spec Sect Para
Location	Date	Approved
		Date

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SERIES 761







GEAR OPERATOR

LEVER LOCK HANDLE

10-POSITION HANDLE WITH MEMORY STOP

MATERIAL SPECIFICATIONS

Body: Ductile iron conforming to ASTM A-536, grade 65-45-12

End Face, 2 - 6"/50 - 150 mm: Ductile iron conforming to ASTM A-536, grade 65-45-12

Seal Retainer, 8 - 12"/200 - 300 mm: Ductile iron conforming to ASTM A-536, grade 65-45-12

Coating: Black alkyd enamel

Disc: Ductile iron (standard) conforming to ASTM A-536, grade 65-45-12, with electroless nickel coating conforming to ASTM B-733

Optional:

- Aluminum bronze, Grade C95500
- Stainless steel conforming to ASTM A-351, Grade CF8M

Seat: (specify choice)*

• Grade "E" EPDM

EPDM (Green color code). Temperature range -30°F to +250°F/-34°C to +121°C. Recommended for cold and hot water service within the specified temperature range plus a variety of dilute acids, and many chemical services. UL Classified in accordance with ANSI/NSF 61 for cold +86°F/+30°C potable water services. NOT RECOMMENDED FOR PETROLEUM SERVICES.

• Grade "T" Lubricated 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, oil-free gas, 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.

• Grade "O" Fluoroelastomer

Fluoroelastomer (Blue color code). Temperature range +20°F to +300°F/-7°C to +149°C. Recommended for many oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids. NOT RECOMMENDED FOR HOT WATER SERVICES.

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

SERIES 761







GEAR OPERATOR

LEVER LOCK HANDLE

10-POSITION HANDLE WITH MEMORY STOP

MATERIAL SPECIFICATIONS

Stems: (Standard) 416 stainless steel conforming to ASTM A-582

• Optional*: 17-4PH stainless steel conforming to ASTM A-564

Stem Seal Cartridge: (Standard) C36000 brass

• Optional*: 17-4PH stainless steel conforming to ASTM A-564

Bearings: Fiberglass with TFE lining

Stem Seals: Furnished in same materials as seat

Stem Retaining Ring: Carbon steel

Handle: Lever Lock

- For sizes 8"/200 mm Painted ductile iron conforming to ASTM A-536, grade 65-45-12, with carbon steel latch plate and carbon steel zinc plated fasteners
 - For sizes 8"/200 mm Infinitely variable, padlockable and includes memory stop. Optionally available with tamper-resistant hardware.
- For sizes 10 12"/250 300 mm Painted ductile iron conforming to ASTM A-536, grade 65-45-12, with carbon steel handle extension and carbon steel zinc plated fasteners.

Handle: 10 Position

• For sizes 2 - 6"/50 - 150 mm - Zinc plated carbon steel handle with zinc plated carbon steel latch plate and carbon steel zinc plated fasteners, infinately variable, padlockable and includes memory stop. Optionally available with tamper-resistant hardware.

Gear Operator with options below:

- Handwheel with memory stop
- Handwheel with chainwheel
- 2" square nut
- Thermal Barrier

^{*} Contact Victaulic for available material combination options.

SERIES 761







GEAR OPERATOR

LEVER LOCK 10-POSITION HANDLE HANDLE WITH MEMORY STOP

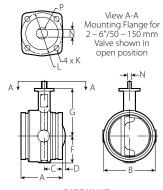
DIMENSIONS

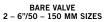
Bare

Siz	re							Dimen	sions – I	nches/mi	llimeters						Approx. Wgt. Ea.		
Nominal Size In./mm	Actual Outside Diameter In./mm	A End to End	В	С	D	E	F	G	н	J	K	L	M	N	P	Q-Key	Bare Valve Lbs./kg	Valve with Lever Handle Lbs./kg	Valve with 10- Position Handle Lbs./kg
2 50	2.375 60.3	3.21 81.5	3.25 82.6	1.44 36.6	_	_	1.81 46.0	3.81 96.8	2.17 55.2	0.13 3.3	0.34 8.6	2.756 70.0	0.88 22.4	0.32 8.0	0.43 11.0	_	3.5 1.6	6.0 2.7	4.4 2.0
2½ 65	2.875 73.0	3.77 95.8	4.00 101.6	1.77 45.0	_	_	2.10 53.3	4.25 108.0	2.17 55.2	0.13 3.3	0.34 8.6	2.756 70.0	0.88 22.4	0.32 8.0	0.43 11.0	_	5.0 2.3	7.5 3.4	5.9 2.7
76.1 mm	3.000 76.1	3.77 95.8	4.00 101.6	1.77 45.0	_	_	2.10 53.3	4.25 108.0	2.17 55.2	0.13 3.3	0.34 8.6	2.756 70.0	0.88 22.4	0.32 8.0	0.43 11.0	_	5.0 2.3	7.5 3.4	5.9 2.7
3 80	3.500 88.9	3.77 95.8	4.50 114.3	1.77 45.0	_	_	2.35 59.7	4.50 114.3	2.17 55.2	0.13 3.3	0.34 8.6	2.756 70.0	0.88 22.4	0.32 8.0	0.43 11.0	_	6.0 2.7	8.5 3.9	6.9 3.1
4 100	4.500 114.3	4.63 117.6	5.50 139.7	2.18 55.4	_	_	2.88 73.2	5.25 133.4	2.17 55.2	0.13 3.3	0.34 8.6	2.756 70.0	0.89 22.6	0.43 11.0	0.59 15.0	_	9.3 4.2	11.8 5.4	10.8 4.9
108.0 mm †	4.250 108.0	4.63 117.6	5.50 139.7	2.20 55.8	_	_	2.88 73.2	5.25 133.4	2.17 55.2	0.13 3.3	0.34 8.6	2.756 70.0	0.89 22.6	0.43 11.0	0.59 15.0	_	9.3 4.2	11.8 5.4	10.8 4.9
5 125	5.563 141.3	5.88 149.4	6.30 160.0	2.58 65.5	_	_	3.34 84.8	6.25 158.8	2.17 55.2	0.13 3.3	0.34 8.6	2.756 70.0	1.12 28.5	0.50 12.7	0.75 19.1	_	16.8 7.6	20.0 9.1	18.8 8.5
133.0 mm †	5.250 133.0	5.88 149.4	6.30 160.0	2.58 65.5	_	_	3.34 84.8	6.25 158.8	2.17 55.2	0.13 3.3	0.34 8.6	2.756 70.0	1.12 28.5	0.50 12.7	0.75 19.1	_	16.8 7.6	20.0 9.1	18.8 8.5
139.7 mm	5.500 139.7	5.88 149.4	6.30 160.0	2.58 65.5	_	_	3.34 84.8	6.25 158.8	2.17 55.2	0.13 3.3	0.34 8.6	2.756 70.0	1.12 28.5	0.50 12.7	0.75 19.1	_	16.8 7.6	20.0 9.1	18.8 8.5
6 150	6.625 168.3	5.88 149.4	7.30 185.4	2.58 65.5	0.42 10.6	_	3.83 97.3	6.75 171.5	2.17 55.2	0.13 3.3	0.34 8.6	2.756 70.0	1.12 28.5	0.50 12.7	0.75 19.1	_	20.0 9.1	23.2 10.5	22.0 10.0
159.0 mm †	6.250 159.0	5.88 149.4	7.30 185.4	2.58 65.5	0.42 10.6	_	3.83 97.3	6.75 171.5	2.17 55.2	0.13 3.3	0.34 8.6	2.756 70.0	1.12 28.5	0.50 12.7	0.75 19.1	_	20.0 9.1	23.2 10.5	22.0 10.0
165.1 mm	6.500 165.1	5.88 149.4	7.30 185.4	2.58 65.5	0.42 10.6	_	3.83 97.3	6.75 171.5	2.17 55.2	0.13 3.3	0.34 8.6	2.756 70.0	1.12 28.5	0.50 12.7	0.75 19.1	_	20.0 9.1	23.2 10.5	22.0 10.0
8 200	8.625 219.1	5.33 135.4	10.00 254.0	2.33 59.2	1.47 37.4	0.80 20.3	5.00 127.0	8.00 203.2	2.17 55.2	0.13 3.3	0.34 8.6	2.756 70.0	1.30 33.0	_	0.88 22.2	0.188 x .88 4.78 x 22.35	34.3 15.6	37.5 17.0	_
10 250	10.750 273.0	6.40 162.6	12.25 311.2	3.00 76.2	1.81 45.9	1.41 35.8	6.13 155.7	9.75 247.7	2.76 70.1	0.13 3.3	0.43 11.0	4.016 102.0	2.25 57.2	_	1.25 31.8	0.312 x 1.88 7.92 x 47.75	72.0 32.7	84.0 38.1	_
12 300	12.750 323.9	6.50 165.1	14.25 362.0	3.00 76.2	2.80 71.0	2.30 58.4	7.13 181.1	10.75 273.1	2.76 70.1	0.13 3.3	0.43 11.0	4.016 102.0	2.24 56.9		1.25 31.8	0.312 x 1.88 7.92 x 47.75	88.0 39.9	100.0 45.4	_

[†] Contact Victaulic for availability.

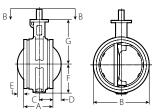
NOTE: 2 – 8"/50 – 200 mm sizes are ISO Flange Designation F07; 10 and 12"/250 and 300 mm sizes are ISO Flange Designation F10.







View B-B Mounting Flange for 8 – 12"/200 – 300 mm Valve shown in open position



BARE VALVE 8 - 12"/200 - 300 MM SIZES



MOUNTING FLANGE RECESS

SERIES 761







GEAR OPERATOR

ERATOR LEVER LOCK HANDLE

10-POSITION HANDLE WITH MEMORY STOP

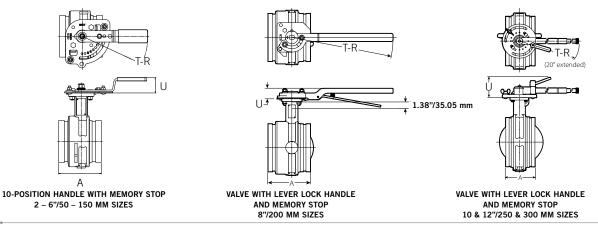
DIMENSIONS

With Handle

s	ize	Din	nensions – Inches/millime	ters	App Wgt	rox. . Ea.
Nominal Size In./mm	Actual Outside Diameter In./mm	A End to End	T-R	U	Bare Valve Lbs./kg	Valve with Lever Handle Lbs./kg
2	2.375	3.21	7.00	1.57	3.5	6.0
50	60.3	81.5	177.8	39.9	1.6	2.7
2½	2.875	3.77	7.00	1.57	5.0	7.5
65	73.0	95.8	177.8	39.9	2.3	3.4
76.1 mm	3.000	3.77	7.00	1.57	5.0	7.5
	76.1	95.8	177.8	39.9	2.3	3.4
3	3.500	3.77	7.00	1.57	6.0	8.5
80	88.9	95.8	177.8	39.9	2.7	3.9
4	4.500	4.63	8.50	1.64	9.3	11.8
100	114.3	117.6	215.9	41.7	4.2	5.4
108.0 mm †	4.250	4.63	8.50	1.64	9.3	11.8
	108.0	117.6	215.9	41.7	4.2	5.4
5	5.563	5.88	12.00	1.64	16.8	20.0
125	141.3	149.4	304.8	41.7	7.6	9.1
133.0 mm †	5.250	5.88	12.00	1.64	16.8	20.0
	133.0	149.4	304.8	41.7	7.6	9.1
139.7 mm	5.500	5.88	12.00	1.64	16.8	20.0
	139.7	149.4	304.8	41.7	7.6	9.1
6	6.625	5.88	12.00	1.64	20.0	23.2
150	168.3	149.4	304.8	41.7	9.1	10.5
159.0 mm †	6.250	5.88	12.00	1.64	20.0	23.2
	159.0	149.4	304.8	41.7	9.1	10.5
165.1 mm	6.500	5.88	12.00	1.64	20.0	23.2
	165.1	149.4	304.8	41.7	9.1	10.5
8	8.625	5.33	14.00	1.51	34.3	37.5
200	219.1	135.4	355.6	38.4	15.6	17.0
10	10.750	6.40	11.66	4.50	72.0	84.0
250	273.0	162.6	296.2	114.30	32.7	38.1
12	12.750	6.50	11.66	4.50	88.0	100.0
300	323.9	165.1	296.2	114.3	39.9	45.4

 $^{\ \, + \,} Contact \,\, Victaulic \, for \, availability.$

NOTE: 2 – 8"/50 – 200 mm sizes are ISO Flange Designation F07; 10 and 12"/250 and 300 mm sizes are ISO Flange Designation F10.



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SERIES 761







GEAR OPERATOR

LEVER LOCK HANDLE

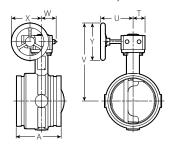
10-POSITION HANDLE WITH MEMORY STOP

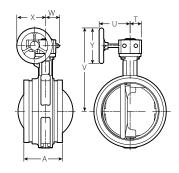
DIMENSIONS

With Gear Operator

Siz	e			Dimen	sions – Inches/milli	imeters			Approx. Wgt. Ea.
Nominal Size In./mm	Actual Outside Diameter In./mm	A End to End	т	U	v	w	x	Y	Valve with Gear Operator Lbs./kg
2	2.375	3.21	1.58	4.43	6.84	1.75	3.64	3.94	6.0
50	60.3	81.5	40.1	112.5	173.7	44.5	92.5	100.1	2.7
2½	2.875	3.77	1.58	4.43	7.28	1.75	3.64	3.94	7.5
65	73.0	95.8	40.1	112.5	184.9	44.5	92.5	100.1	3.4
76.1 mm	3.000	3.77	1.58	4.43	7.28	1.75	3.64	3.94	7.5
	76.1	95.8	40.1	112.5	184.9	44.5	92.5	100.1	3.4
3	3.500	3.77	1.58	4.43	7.53	1.75	3.64	3.94	8.5
80	88.9	95.8	40.1	112.5	191.3	44.5	92.5	100.1	3.9
4	4.500	4.63	1.58	4.43	8.28	1.75	3.64	3.94	11.8
100	114.3	117.6	40.1	112.5	210.3	44.5	92.5	100.1	5.4
108.0 mm †	4.250	4.63	1.58	4.43	8.28	1.75	3.64	3.94	11.8
	108.0	117.6	40.1	112.5	210.3	44.5	92.5	100.1	5.4
5	5.563	5.88	1.97	4.84	9.81	2.28	4.43	4.92	20.8
125	141.3	149.4	50.0	122.9	249.2	57.9	112.5	125.0	9.4
133.0 mm †	5.250	5.88	1.97	4.84	9.81	2.28	4.43	4.92	20.8
	133.0	149.4	50.0	122.9	249.2	57.9	112.5	125.0	9.4
139.7 mm	5.500	5.88	1.97	4.84	9.81	2.28	4.43	4.92	20.8
	139.7	149.4	50.0	122.9	249.2	57.9	112.5	125.0	9.4
6	6.625	5.88	1.97	4.84	10.31	2.28	4.43	4.92	24.0
150	168.3	149.4	50.0	122.9	261.9	57.9	112.5	125.0	10.9
159.0 mm †	6.250	5.88	1.97	4.84	10.31	2.28	4.43	4.92	24.0
	159.0	149.4	50.0	122.9	261.9	57.9	112.5	125.0	10.9
165.1 mm	6.500	5.88	1.97	4.84	10.31	2.28	4.43	4.92	24.0
	165.1	149.4	50.0	122.9	261.9	57.9	112.5	125.0	10.9
8	8.625	5.33	1.97	4.84	11.56	2.28	4.43	4.92	38.3
200	219.1	135.4	50.0	122.9	293.6	57.9	112.5	125.0	17.4
10	10.750	6.40	2.88	7.76	15.13	3.25	6.30	7.87	81.5
250	273.0	162.6	73.2	197.1	384.3	82.6	160.0	199.9	39.0
12	12.750	6.50	2.88	7.76	16.13	3.25	6.30	7.87	97.5
300	323.9	165.1	73.2	197.1	409.7	82.6	160.0	199.9	44.2

† Contact Victaulic for availability.





VALVE WITH GEAR OPERATOR 2 - 6"/50 - 150 MM SIZES

VALVE WITH GEAR OPERATOR 8 - 12"/200 - 300 MM SIZES

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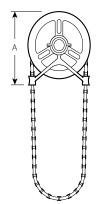
SERIES 761



HANDLE

10-POSITION HANDLE WITH MEMORY STOP

ACCESSORIES



CHAIN WHEEL AND GUIDE WITH SAFETY CABLE KIT

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

HOW TO ORDER:

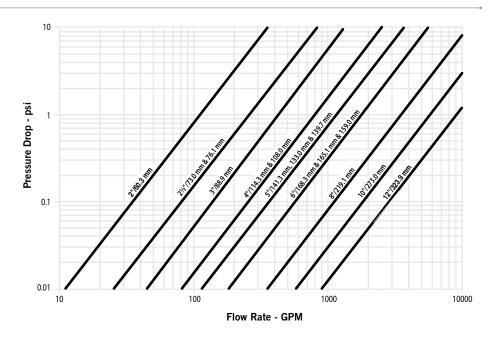
Specify type valve and operator by valve numbering system shown on back page.

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.

Size	Din	ters	Aprx. Wgt. Ea	
Nominal Size In./mm	Sprocket Size	Chain Wheel Size (Dia.)	А	Lbs./kg
2 – 4	0	4.00	4.63	2.0
50 – 100		10	118	0.9
5 – 8	1	5.75	6.38	4.0
125 – 200		146	162	1.8
10 – 12	2	9.00	10.50	10.0
250 – 300		229	267	4.5

FLOW CHARACTERISTICS



SERIES 761







GEAR OPERATOR

LEVER LOCK

HANDLE

10-POSITION HANDLE WITH MEMORY STOP

PERFORMANCE

 C_V values for flow of water at +60°F/+16°C with various disc positions are shown in the table below. Some of the following values are estimated. For exact values, please contact Victaulic for details.

Formulas for C_V Values:

Size

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

Where:

Q = Flow (GPM) $\Delta P = Pressure Drop (psi)$

 $C_v = Flow Coefficient$

Size		C _v	C _v		
om. ize /mm	Actual Outside Dia. In./mm	(Full Open)	Nom. Size In./mm	Actual Outside Dia. In./mm	(Full Open)
7 mm	5.500 139.7	1200	8 200	8.625 219.1	3400
6	6.625		10	10.750	

Nom. Size In./mm	Outside Dia. In./mm	(Full Open)									
2 50	2.375 60.3	115	4 100	4.500 114.3	820	139.7 mm	5.500 139.7	1200	8 200	8.625 219.1	3400
2½ 65	2.875 73.0	260	108.0 mm	4.250 108.0	820	6 150	6.625 168.3	1800	10 250	10.750 273.0	5800
76.1 mm	3.000 76.1	260	5 125	5.563 141.3	1200	159.0 mm	6.250 159.0	1800	12 300	12.750 323.9	9000
3 80	3.500 88.9	440	133.0 mm	5.250 133.0	1200	165.1 mm	6.500 165.1	1800			
									•		
	Cizo					FLOW C	OFFEICIEN	ITC C			

Si	ze	FLOW COEFFICIENTS – C _V								
		Disc Position (Degrees open)								
Nominal Size In./mm	Actual Outside Dia. In./mm	90	70	60	50	40	30			
2 50	2.375 60.3	115	60	36	23	14	7			
2½ 65	2.875 73.0	260	140	80	50	30	16			
76.1 mm	3.000 76.1	260	140	80	50	30	16			
3 80	3.500 88.9	440	230	140	90	50	26			
4 100	4.500 114.3	820	430	250	160	100	50			
108.0 mm	4.250 108.0	820	430	250	160	100	50			
5 125	5.563 141.3	1200	620	370	240	140	70			
133.0 mm	5.250 133.0	1200	620	370	240	140	70			
139.7 mm	5.500 139.7	1200	620	370	240	140	70			
6 150	6.625 168.3	1800	940	560	360	220	110			
159.0 mm	6.250 159.0	1800	940	560	360	220	110			
165.1 mm	6.500 165.1	1800	940	560	360	220	110			
8 200	8.625 219.1	3400	1770	1050	670	410	200			
10 250	10.750 273.0	5800	3020	1800	1150	700	350			
12 300	12.750 323.9	9000	4680	2790	1780	1080	540			

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GEAR OPERATOR

LEVER LOCK HANDLE

10-POSITION HANDLE WITH MEMORY STOP

VALVE TORQUE REQUIREMENTS

Vic-300 MasterSeal valves have low torque requirements for operating the valve. This results in less manual effort, smaller gear operators or smaller actuators to open and close the valve.

Si	ze		Torque – Inch Pounds/Newton Meters								
Nominal	Actual	*Differential Pressure – psi/Bar									
Size In./mm	Outside Dia. In./mm	50/3	100/7	150/10	200/14	232/16	300/21				
2	2.375	53	65	78	90	100	115				
50	60.3	6.0	7.0	9.0	10.0	11.0	13.0				
2½	2.875	100	120	140	160	170	200				
65	73.0	11.0	14.0	16.0	18.0	19.0	23.0				
76.1 mm	3.000	100	120	140	160	170	200				
	76.1	11.0	14.0	16.0	18.0	19.0	23.0				
3	3.500	150	170	190	210	230	260				
80	88.9	17.0	19.0	22.0	24.0	26.0	29.0				
4	4.500	220	250	280	310	330	370				
100	114.3	25.0	28.0	32.0	35.0	37.0	42.0				
108.0 mm	4.250	220	250	280	310	330	370				
	108.0	25.0	28.0	32.0	35.0	37.0	42.0				
5	5.563	340	390	450	500	530	600				
125	141.3	38.0	44.0	51.0	57.0	60.0	68.0				
133.0 mm	5.250	340	390	450	500	530	600				
	133.0	38.0	44.0	51.0	57.0	60.0	68.0				
139.7 mm	5.500	340	390	450	500	530	600				
	139.7	38.0	44.0	51.0	57.0	60.0	68.0				
6	6.625	410	470	540	600	640	730				
150	168.3	46.0	53.0	61.0	68.0	72.0	83.0				
159.0 mm	6.250	410	470	540	600	640	730				
	159.0	46.0	53.0	61.0	68.0	72.0	83.0				
165.1 mm	6.500	410	470	540	600	640	730				
	165.1	46.0	53.0	61.0	68.0	72.0	83.0				
8	8.625	540	680	820	950	1040	1230				
200	219.1	61.0	77.0	93.0	107.0	118.0	139.0				
10	10.750	1610	1920	2230	2530	2730	3150				
250	273.0	182.0	217.0	252.0	286.0	308.0	356.0				
12	12.750	2720	2880	3040	3190	3290	3510				
300	323.9	307.0	325.0	344.0	360.0	372.0	397.0				

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GEAR OPERATOR

LEVER LOCK HANDLE

10-POSITION HANDLE WITH MEMORY STOP

VALVE TORQUE REQUIREMENTS

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 non-abrasive, and the chemical effects upon the elastomer are minor).

Typical fluid torque factors commonly used in the industry are:

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

Material Torque Factors:

Cycling Factor:

Torque will typically increase as the valve is cycled. A factor of 1.5 should be applied for the first 5000 cycles and another 1.5 applied for all additional cycles. The higher number should be used if there are more than one cycle per hour.

Actuation Factor:

There are no actuation safety factors applied. A factor consistent with the consequences of not actuating should be applied. A minimum factor of 1.2 is recommended for directly actuated valves and 1.5 for 3-way assemblies.

Combining Torque Factors:

When multiple torque factors apply, they are combined by multiplying them. Example: For an EPDM seal and a 5000 cycle factor the combined factor would be $1.0~{\rm X}~(1.5)=1.5$.

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.

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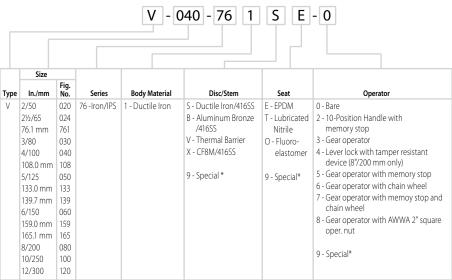
LEVER LOCK HANDLE

10-POSITION HANDLE WITH MEMORY STOP

TYPICAL SPECIFICATIONS

Butterfly valves 2 - 12"/50 - 300 mm shall be rated to 300 psi/2068 kPa and be both bi-directional and dead-end service capable 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 (or 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 grooved. 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"/50 - 200 mm shall include latch lock, infinitely variable and memory stop features. Manufacturer - Victaulic - Vic-300 MasterSeal Valve or approved equal. Valve with EPDM seat is UL classfied to ANSI/NSF 61.

VIC-300 VALVE NUMBERING SYSTEM



^{*} Details required with order

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TOR LEVER LOCK HANDLE

10-POSITION HANDLE WITH MEMORY STOP

IMPORTANT INSTALLATION CONSIDERATIONS



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

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 20 ft. per sec./6.1 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 away from other components.

Victaulic Butterfly Valves are designed with grooved ends for use with grooved pipe couplings. If flange connections are required, refer to the following notes regarding Vic-Flange Adapter restrictions

- Style 741 Vic-Flange Adapters can be used on all sizes Vic-300 MasterSeal Butterfly Valves.
- Style 743 Vic-Flange Adapters cannot be used with Vic-300 MasterSeal Butterfly Valves. A No. 46 ANSI 300 groove by flange adapter is required. 0

MasterSeal™ Butterfly Valves

VIC®-300







GEAR OPERATOR

LEVER LOCK HANDLE

10-POSITION HANDLE WITH MEMORY STOP

WARRANTY

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

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.

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