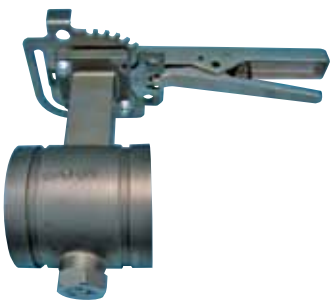
Stainless Steel Butterfly Valve

SERIES 763

The Victaulic Series 763 stainless steel butterfly valves are designed for 300 psi/ 2065 kPa service. The valve consists of a stainless steel body with an integrally cast neck to accommodate insulation requirements of up to two inches. The valve has an ISO 5211 top flange that will accept mounting of most major manual and power operators. This will improve insulation ability and allow room for actuation. The Series 763 also features available seat options that include EPDM, nitrile, fluoroelastomer, and lubricated nitrile (for air and gas service only). The disc is constructed of stainless steel and provides a bubble-tight shut-off at full rated pressure and temperature. The valve is bi-directional and is capable of bi-directional dead-end service.



SERIES 763 WITH TAMPER-RESISTANT LEVER HANDLE

SERIES 763 WITH GEAR OPERATOR

FEATURES

1 **Body –** Grade CF8M stainless steel, integrally cast with neck and ISO mounting flange

2 **Disc –** Grade CF8M stainless steel

3 **Seat Seal –** EPDM, nitrile, fluoroelastomer, or lubricated nitrile. Seat seals are available for a wide variety of services

4 **Upper and Lower Stems –** Manufactured from 316 stainless steel

5 **Bearings –** PTFE impregnanted glass fabric with 316 stainless steel backing

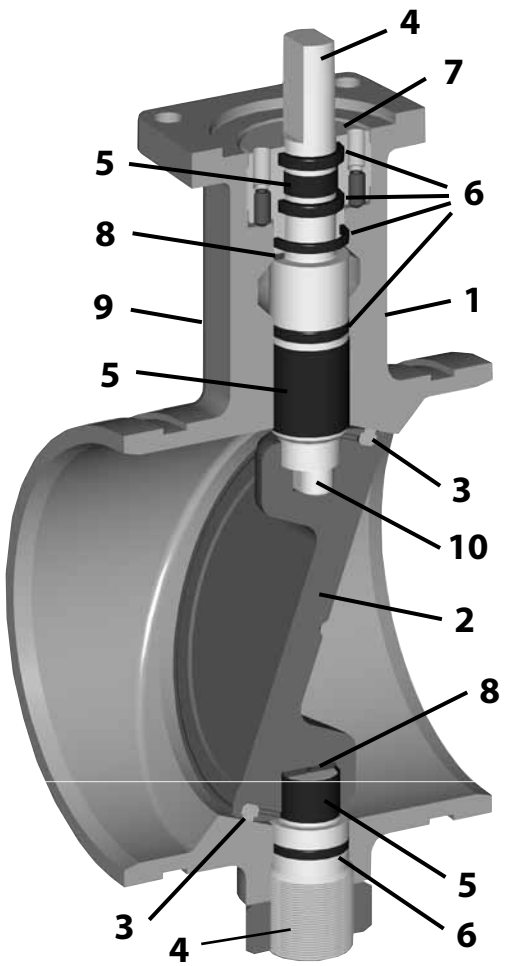
6 **Stem Seals –** Stem seals are furnished in same elastomer as seat seal

7 **Retaining Gland –** 316 stainless steel gland houses a bearing and redundant stem seals

8 **Upper and lower thrust bearings –** Maintains alignment between disc and body

9 **Extended Neck –** Allows for up to 2"/60.3 mm of insulation

10 **Stem to Disc Drive –** a shaped connection ensures positive drive, eliminating chatter



JOB/OWNER

System No. _____

Location _____

CONTRACTOR

Submitted By _____

Date _____

ENGINEER

Spec Sect _____ Para _____

Approved _____

Date _____

www.victaulic.com

Stainless Steel Butterfly Valve

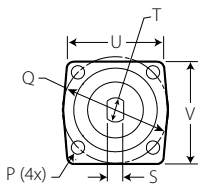
SERIES 763

DIMENSIONS

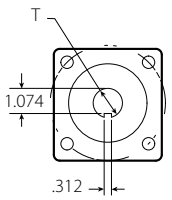
Bare and with Lever Lock Handle

Valve Size		Dimensions – Inches/millimeters															Bare Valve Aprx. Wgt. Ea.	Valve w/Lever Handle Aprx. Wgt. Ea.
Nominal Size Inches mm	Actual Outside Dia. Inches mm	A	B	C	D	E Stainless Steel Handle	E Ductile Iron Handle	F	P	Q	R	S	T	U	V	Disc Protrusion W	Lbs. kg	Lbs. kg
2 50	2.375 60.3	3.20 81	2.37 60	2.09 53	4.17 106	1.25 32	1.62 41	8.51 216	0.34 9	2.76 70	1.25 32	0.31 8	0.43 11	2.48 63	2.65 67	—	3.5 1.6	4.7 2.1
2½ 65	2.875 73.0	3.77 96	3.00 76	2.47 63	4.38 111	1.25 32	1.62 41	8.51 216	0.34 9	2.76 70	1.25 31	0.31 8	0.43 11	2.48 63	2.65 67	—	4.5 2.0	5.7 2.6
76.1 mm	3.000 76.1	3.77 96	3.00 76	2.47 63	4.38 111	1.25 32	1.62 41	8.51 216	0.34 9	2.76 70	1.25 31	0.31 8	0.43 11	2.48 63	2.65 67	—	4.5 2.0	5.7 2.6
3 80	3.500 88.9	3.77 96	3.50 89	2.60 66	4.97 126	1.25 32	1.62 41	8.51 216	0.34 9	2.76 70	1.23 31	0.31 8	0.43 11	2.48 63	2.65 67	—	5.0 2.3	6.2 2.8
4 100	4.500 114.3	4.64 118	4.52 115	3.14 80	5.33 135	1.25 32	1.62 41	8.51 216	0.34 9	2.76 70	1.23 31	0.43 11	0.63 16	2.47 63	2.65 67	—	9.0 4.1	10.2 4.6
165.1 mm	6.500 165.1	5.88 149	6.64 169	4.76 121	7.25 184	1.37 35	1.37 35	12.01 305	0.43 11	4.02 102	1.37 35	0.50 13	0.75 19	3.51 89	3.85 98	—	26.0 11.8	28.4 12.9
6 150	6.625 168.3	5.88 149	6.64 169	4.76 121	7.25 184	1.37 35	1.37 35	12.01 305	0.43 11	4.02 102	1.37 35	0.50 13	0.75 19	3.51 89	3.85 98	—	26.0 11.8	28.4 12.9
8 200	8.625 219.1	5.32 135	9.75 248	5.73 145	8.57 218	1.37 35	1.37 35	12.01 305	0.43 11	4.02 102	1.37 35	0.75 19	1.00 25	3.40 86	3.85 98	1.24 32	41.0 18.6	43.4 19.7
10 250	10.750 273.0	6.40 163	12.10 307	7.05 179	10.09 256	—	—	—	0.53 13	4.92 125	2.13 54	—	1.25 * 32	4.62 117	4.77 121	1.72 44	65.0 29.5	—

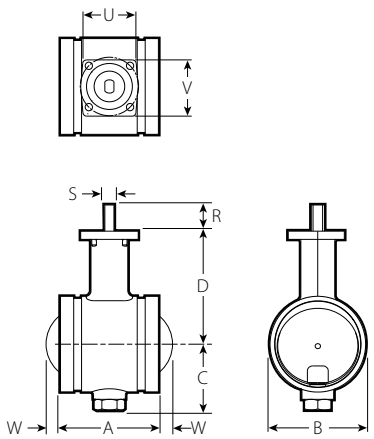
* 10"/250 mm Series 763 valve stem includes 0.312"/7.9 mm square keyway.



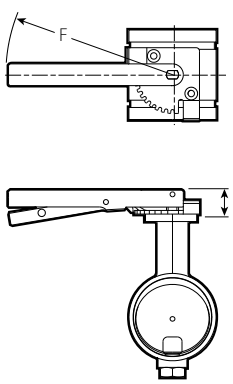
ENLARGED MOUNTING FLANGE 2 – 8"/50 – 200 MM (VALVE SHOWN CLOSED)



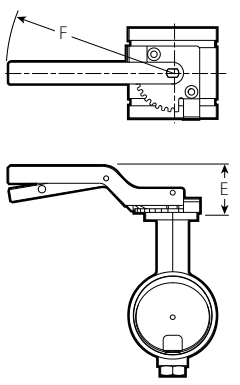
ENLARGED MOUNTING FLANGE 10"/250 MM * (VALVE SHOWN CLOSED)



SERIES 763 BARE



SERIES 763 WITH STAINLESS STEEL LEVER HANDLE



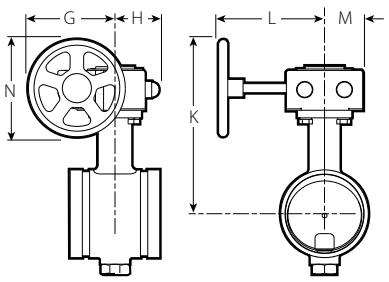
SERIES 763 WITH DUCTILE IRON LEVER HANDLE

Stainless Steel Butterfly Valve

SERIES 763

DIMENSIONS

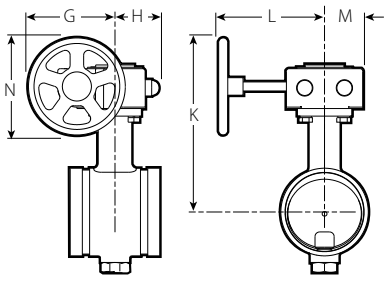
With Aluminum Gear Operator



Valve Size		Dimensions – Inches/millimeters						Aprx. Wgt. Ea.
Nominal Size Inches mm	Actual Outside Diameter Inches mm	G	H	K	L	M	N	Lbs. kg
2 50	2.375 60.3	2.64 92	1.75 44	7.00 178	4.29 109	1.58 40	3.94 100	7.4 3.4
2½ 65	2.875 73.0	2.64 92	1.75 44	7.18 182	4.29 109	1.58 40	3.94 100	8.4 3.8
76.1 mm	3.000 76.1	2.64 92	1.75 44	7.18 182	4.29 109	1.58 40	3.94 100	8.4 3.8
3 80	3.500 88.9	2.64 92	1.75 44	7.77 197	4.29 109	1.58 40	3.94 100	8.9 4.0
4 100	4.500 114.3	4.43 112	2.28 58	8.93 227	4.65 118	1.97 50	4.92 125	12.9 5.9
165.1 mm	6.500 165.1	6.30 160	3.25 82	12.62 320	7.75 197	2.87 73	7.87 200	33.2 15.1
6 150	6.625 168.3	6.30 160	3.25 82	12.62 320	7.75 197	2.87 73	7.87 200	33.2 15.1
8 200	8.625 219.1	6.30 160	3.25 82	13.95 354	7.75 197	2.87 73	7.87 200	48.2 21.9
10 250	10.750 273.0	6.30 160	3.25 82	15.47 393	7.75 197	2.87 73	7.87 200	74.0 33.6

DIMENSIONS

With Stainless Steel Gear Operator



Valve Size		Dimensions – Inches/millimeters						Aprx. Wgt. Ea.
Nominal Size Inches mm	Actual Outside Diameter Inches mm	G	H	K	L	M	N	Lbs. kg
2 50	2.375 60.3	3.93 100	2.80 71	7.28 185	5.13 130	2.22 56	3.94 100	6.4 2.0
2½ 65	2.875 73.0	3.93 100	2.80 71	7.49 190	5.13 130	2.22 56	3.94 100	7.4 3.4
76.1 mm	3.000 76.1	3.93 100	2.80 71	7.49 190	5.13 130	2.22 56	3.94 100	7.4 3.4
3 80	3.500 88.9	3.93 100	2.80 71	8.08 205	5.13 130	2.22 56	3.94 100	7.9 3.6
4 100	4.500 114.3	4.92 125	2.80 71	9.42 239	5.32 135	2.22 56	5.90 150	11.9 5.4
165.1 mm	6.500 165.1	6.59 167	3.54 90	12.92 328	9.00 229	2.97 75	8.46 215	32.2 14.6
6 150	6.625 168.3	6.59 167	3.54 90	12.92 328	9.00 229	2.97 75	8.46 215	32.2 14.6
8 200	8.625 219.1	6.59 167	3.54 90	14.24 362	9.00 229	2.97 75	8.46 215	47.2 21.4
10 250	10.750 273.0	9.33 237	4.02 102	17.76 451	8.03 204	3.70 94	12.40 315	80.4 36.6

Stainless Steel Butterfly Valve

SERIES 763

PERFORMANCE

C_V values for flow of water at +60°F/+16°C are shown in the table below.

Formulas for C_V Values:

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

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

Where:
Q = Flow (GPM)
ΔP = Pressure Drop (psi)
C_v = Flow Coefficient

Size		FLOW COEFFICIENTS – CV						
		Disc Position (Degrees open)						
Nominal Size Inches mm	Actual Outside Dia. Inches mm	90	80	70	60	50	40	30
2 50	2.375 60.3	110	80	56	34	21	10	3
2½ 65	2.875 73.0	200	140	96	63	42	26	13
76.1 mm	3.000 76.1	200	140	96	63	42	26	13
3 80	3.500 88.9	250	200	140	98	65	38	17
4 100	4.500 114.3	600	530	330	190	110	67	43
165.1 mm	6.500 165.1	1400	970	620	400	240	136	68
6 150	6.625 168.3	1400	970	620	400	240	136	68
8 200	8.625 219.1	3400	2460	1400	890	560	340	196
10 250	10.750 273.0	5500	4359	2396	1525	922	577	346

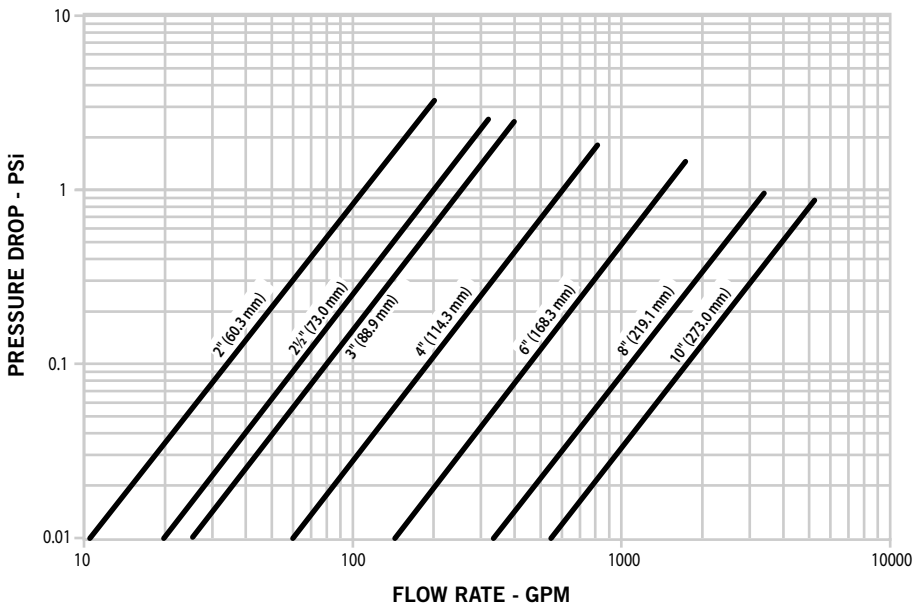
NOTICE

Victaulic recommends that when using butterfly valves for throttling service that the disc not be at less than 30 degrees open. For best results disc should be between 30 & 70 degrees open. For more specific details on throttling service please contact Victaulic.

Stainless Steel Butterfly Valve

SERIES 763

FLOW CHARACTERISTICS FOR FULLY OPENED VALVE



NOTICE

Victaulic recommends that, in keeping with good piping practices, flow velocities for water service be limited to 20 ft/sec. When higher flow velocities are necessary and/or for other flow media, please contact Victaulic.

Stainless Steel Butterfly Valve

SERIES 763

VALVE TORQUE REQUIREMENTS

Victaulic Series 763 valves have low torque requirements for operating the valve. This results in less manual effort, smaller gear operators or smaller, less expensive actuators to open and close the valve.

Size		Torque – Inch Pounds/Newton Meters				
Nominal Size Inches mm	Actual Outside Dia. Inches mm	*Differential Pressure – psi/Bar				
		50/3	100/7	150/10	200/14	300/21
2 50	2.375 60.3	80 9	84 10	88 10	92 11	100 12
2½ 65	2.875 73.0	105 12	112 13	119 14	126 15	140 16
76.1 mm	3.000 76.1	105 12	112 13	119 14	126 15	140 16
3 80	3.500 88.9	120 13	130 15	140 16	150 17	180 20
4 100	4.500 114.3	260 29	290 33	330 37	360 41	440 49
165.1 mm	6.500 165.1	840 95	890 101	940 106	990 112	1080 123
6 150	6.625 168.3	840 95	890 101	940 106	990 112	1080 123
8 200	8.625 219.1	1080 123	1160 131	1230 139	1300 147	1440 163
10 250	10.750 273.0	1920 217	2120 239	2310 261	2500 283	2880 326

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 – "E" = 1.0; "O" = 1.2; "T" = 0.8

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. This higher number should be used if there is 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 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.

Stainless Steel Butterfly Valve

SERIES 763

MATERIAL SPECIFICATIONS

Body and Disc: Grade CF8M stainless steel conforming to ASTM A351, A743 and A744.

Stems and Hardware: Type 316 stainless steel.

Bearings: PTFE impregnated glass fabric with 316 stainless steel backing and/or PEEK.

Handle:
- Sizes 2 – 4"/50 – 100 mm: Ductile iron with black paint
- Sizes 6 & 8"/150 & 200 mm: Ductile iron with black paint
- **Optional:** 316 stainless steel

Gear Operator: Aluminum housing with ductile iron quadrant and steel worm gear.

- **Optional:** 300 Series stainless steel housing with aluminum bronze quadrant and steel worm gear.

Disc Seal: (specify choice)

Grade "E" EPDM
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 and many chemical services. NOT RECOMMENDED FOR PETROLEUM SERVICES.

Grade "T" nitrile
Temperature range for continuous service up to +180°F/+82°C. Recommended for petroleum products, 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.

Grade "D" lubricated nitrile
Temperature range for continuous service up to +180°F/+82°C. Recommended for non-lubricated and lubricated air and some gas services. (For listing of recommended gas services, please see Chemical Compatibility Chart in this submittal.) NOT RECOMMENDED FOR LIQUID SERVICES.

Optional: Grade "O" fluoroelastomer
Temperature range for continuous service up to +300°F/+149°C. Recommended for many oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids and organic liquids to +300°F/+149°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.

Stainless Steel Butterfly Valve

SERIES 763

SERIES 763 NUMBERING SYSTEM

V - 040 - 3 3 3 1 - 03

Type	Inches mm	Size Code	Pressure Rating	Body Material	Disc/Stem	Seat	Operator
V	2/50	020	3 - 300 psi	3 - 316 stainless steel	3 - 316 stainless steel/ 316 stainless steel	1 - EPDM - "E"	00 - Bare
	2½/65	024		9 - Special*	9 - Special*	2 - Nitrile - "T"	03 - Lever lock handle
	76.1 mm	076				3 - Viton - "O"	20 - Gear operator
	3/80	030				D -Lubricated Nitrile†	21 - Gear operator with memory
	4/100	040				9 - Special*	53 - Stainless steel lever lock handle
	165.1 mm	165					54 - Tamper-resistant stainless steel handle
	6/150	060					60 - Stainless steel gear operator
	8/200	080					99 - Special
	10/250	100					

NOTES:
* Details required with order
† For air and gas service only.

Stainless Steel Butterfly Valve

SERIES 763

CHEMICAL COMPATIBILITY GUIDE

⚠ WARNING

This chemical compatibility chart should be used only as a guide.

- **These recommendations are based on the chemical compatibility of the materials under laboratory conditions.**
- **This data is a compilation of published data from many sources. Many factors must be taken into consideration by the system designer, such as aeration, velocity, temperature, concentration, contaminants, and turbulence, which can effect acceptability for any given service. Unless otherwise listed, all data is for ambient conditions.**
- **DO NOT ASSUME A SERVICE SIMILAR TO THE ONE LISTED CAN BE ACCOMMODATED. Where possible, materials should be subjected to simulated service conditions to determine suitability. It should not be concluded that in instances where chemicals are listed as acceptable individually will necessarily be acceptable when combined.**

Failure to follow these instructions may cause serious personal injury and/or property damage.

Ratings are based on service at ambient temperature unless otherwise listed.

Rating Code Key	
G	Good
NOTE	When two grades are listed, either may be used.
NR	NOT RECOMMENDED
—	No Data

For services not listed contact Victaulic for recommendations.

Chemical Composition	Rating Code	Gasket Grade
ASTM #3 Oil	G	T
Acetaldehyde	G	E
Acetamide	G	T
Acetic Acid up to 10% 100°F/38°C	G	E
Acetic Acid up to 10-50% 100°F/38°C	—	—
Acetic Acid, Glacial 100°F/38°C	—	—
Acetic Anhydride	G	E
Acetone	G	E
Acetonitrile	G	T
Acetophenone	G	E
Acetylene	—	—
Acrylic Resin	—	—
Acrylonitrile	NR	—
Adipic Acid	—	—
Air	G	D
Alkalis	—	—
Allyl Alcohol to 96%	G	E
Allyl Chloride	NR	—
Alum Sulfuric Acid	—	—
Alums	G	E/T
Aluminum Chloride	—	—
Aluminum Fluoride	—	—
Aluminum Hydroxide	G	E
Aluminum Nitrate	G	E/T
Aluminum Oxychloride	—	—
Aluminum Phosphate	—	—

Chemical Composition	Rating Code	Gasket Grade
Aluminum Salts	—	—
Aluminum Sulfate	G	E/T
Ammonia Liquid	G	E
Ammonium Alum	—	—
Ammonium Bifluoride	—	—
Ammonium Carbonate	—	—
Ammonium Chloride	G	T
Ammonium Fluoride	—	—
Ammonium Hydroxide	G	E
Ammonium Metaphosphate	—	—
Ammonium Nitrate	G	T
Ammonium Nitrite	—	—
Ammonium Persulfate, to 10%	—	—
Ammonium Phosphate	G	T
Ammonium Sulfamate	—	—
Ammonium Sulfate	G	E/T
Ammonium Sulfide	G	E
Ammonium Thiocyanate	G	E
Amyl Acetate	G	E
Amyl Alcohol	G	E
Amyl Borate	—	—
Amyl Chloride	NR	—
Amyl Chloronaphthalene	—	—
Anderol	—	—
Anthraquinone	NR	—
Anthraquinone Sulfonic Acid	NR	—
Aniline	G	E
Aniline Dyes	—	—
Aniline Hydrochloride	—	—
Aniline Oil	—	—
Animal Fats	—	—
Antimony Chloride	—	—
Antimony Trichloride	—	—
Aroclor(s)	—	—
Arsenic Acid, to 75%	G	T
Arylsulfonic Acid	NR	—
Barium Carbonate	G	E
Barium Chloride	G	E/T
Barium Hydroxide	G	E/T
Barium Nitrate	—	—
Barium Sulfide	G	T

Chemical Composition	Rating Code	Gasket Grade
Beer	—	—
Beet Sugar Liquors	—	—
Benzaldehyde	—	—
Benzene	G	O
Benzene Sulfonic (Aromatic Acid)	—	—
Benzine (see Petroleum Ether)	—	—
Benzoic Acid	G	E
Benzol	—	—
Benzyl Alcohol	G	E
Benzyl Benzoate	—	—
Black Sulfate Liquor	G	T
Blast Furnace Gas	—	—
Bleach, 12% Active Cl2	—	—
Borax	G	E
Bordeaux Mixture	—	—
Boric Acid	G	E/T
Bromine	NR	—
Bromine Water	NR	—
Butadiene	—	—
Butane Gas	—	—
Butanol (see Butyl Alcohol)	G	E/T
Butter	—	—
Butyl Acetate	—	—
Butyl Acetyl Ricinoleate	—	—
Butyl Alcohol	G	E/T
Butyl "Cellosolve Adipate"	G	E/T
Butyl Phenol	—	—
Butyl Stearate	G	T
Butylene	G	T
Butylene Glycol	—	—
Butyne Diol	NR	—
Butyraldehyde	—	—
Cadmium Cyanide	—	—
Calcium Acetate	—	—
Calcium Bisulphate	—	—
Calcium Bisulphide	G	T
Calcium Bisulphite	G	T
Calcium Chloride	G	E/T
Calcium Fluophosphate	—	—
Calcium Hydroxide (Lime)	G	E/T
Calcium Hypochlorite	—	—

Chemical Composition	Rating Code	Gasket Grade
Calcium Hypochloride	G	E
Calcium Nitrate	G	E/T
Calcium Sulfate	—	—
Calcium Sulfide	—	—
Caliche Liquors	—	—
Cane Sugar Liquors	—	—
Carbitol	—	—
Carbonic Acid, Phenol	G	O
Carbon Bisulphide	—	—
Carbon Dioxide, Dry	G	D
Carbon Dioxide, Wet	G	D
Carbon Disulphide	G	O
Carbon Monoxide	G	D
Carbon Tetrachloride	G	O
Castor Oil	—	—
Caustic Potash	G	E
Cellosolve Acetate	—	—
Cellosolve (Alcohol Ether)	—	—
Cellulose Acetate	—	—
Cellulube 220 (Tri-Aryl-Phosphate)	—	—
Cellulube Hydraulic Fluids	—	—
China Wood Oil, Tung Oil	G	T
Chloralhydrate	NR	—
Chloric Acid to 20%	—	—
Chlorine, Dry	—	—
Chlorine, Water	—	—
Chlorinated Parafine (Chlorocosane)	—	—
Chloroacetic Acid	—	—
Chloroacetone	—	—
Chlorobenzene	—	—
Chlorobromomethane	NR	—
Chloroform	G	O
Chlorosulphonic Acid	NR	—
Chrome Alum	—	—
Chrome Plating Solutions	—	—
Chromic Acid, to 25%	—	—
Citric Acid	G	E
Cocoanut Oil	—	—
Cod Liver Oil	—	—
Copper Chloride	G	T
Copper Cyanide	G	T

Stainless Steel Butterfly Valve

SERIES 763

Chemical Composition	Rating Code	Gasket Grade
Copper Fluoride	—	—
Copper Nitrate	G	E/T
Copper Sulfate	G	E/T
Corn Oil	—	—
Cotton Seed Oil	—	—
Creosol, Cresylic Acid	—	—
Creosote, Coal Tar	—	—
Creosote, Wood	—	—
Cupric Fluoride	—	—
Cupric Sulfate	—	—
Cyclohexane (Alicyclic Hydrocarbon)	G	O
Cyclohexanol	—	—
Cyclohexanone	—	—
Deionized Water	G	E
Dextrim	G	T
Diacetone Alcohol	—	—
Dibutyl Phthalate	G	E
Dichloro Difloro Methane	—	—
Dicyclohexylamine	—	—
Diesel Oil	G	T
Diethyl Ether	—	—
Diethyl Sebacate	—	—
Diethylamine	G	T
Diethylene Glycol	—	—
Dimethylamine	—	—
Dioctyl Phthalate	—	—
Dioxane	G	E
Dipentene (Terpene-Hydrocarbon)	—	—
Dipropylene Glycol	—	—
Dowtherm A	G	O
Dowtherm E	—	—
Dowtherm SR-1	—	—
Ethanolamine	—	—
Ethyl Acetoacetate	—	—
Ethyl Acrylate	—	—
Ethyl Alcohol	G	E/T
Ethyl Cellulose	—	—
Ethyl "Cellusolve"	—	—
Ethyl Ether	—	—
Ethyl Formate	—	—
Ethyl Oxalate	—	—
Ethyl Silicate	—	—
Ethylene Chlorohydrin	—	—
Ethylene Diamine	—	—
Ethylene Dichloride (Dichloroethane)	G	O
Ethylene Glycol	G	E/T
Ethylene Oxide	NR	—
Fatty Acids	—	—
Ferric Chloride, to 35%	—	—
Ferric Chloride, Saturated	—	—
Ferric Hydroxide	—	—
Ferric Nitrate	—	—
Ferric Sulfate	G	T
Ferrus Ammonium Sulfate to 30%	—	—
Fish Oils	—	—
Fluboric Acid	G	E
Fluorine Gas, Wet	NR	—
Fluorosilicic Acid	—	—
Fly Ash	G	E
Foam	G	E
Fog Oil	—	—
Formaldehyde	G	E/T
Formanide	—	—
Formic Acid	G	E
Freon 11, 130°F/54°C	G	T
Freon 12, 130°F/54°C	G	T

Chemical Composition	Rating Code	Gasket Grade
Freon 21	NR	—
Freon 22, 130°F/54°C	—	—
Freon 113 130°F/54°C	G	T
Freon 114,130°F/54°C	G	T
Freon 123	NR	—
Freon 134a,176°/80°C	—	—
Fructose	G	T
Fuel Oil	G	T
Fumaric Acid	G	E
Furan	NR	—
Furfuryl Alcohol	G	E
Gallic Acid	NR	—
Gasoline, Refined	G	T
Gasoline, Refined, Unleaded	—	—
Gelatin	—	—
Glucose	—	—
Glue	G	T/E
Glycerin	G	E/T
Glycerol	G	E/T
Glycol	G	E/T
Glycolic Acid	C	E
Grease	G	T
Green Sulfate Liquor	G	T
Halon 1301	—	—
Heptane	G	T
Hexaldehyde	—	—
Hexane	G	T
Hexanol Tertiary	G	T
Hexyl Alcohol	G	V/T
Hexylene Glycol	—	—
Hydrobromic Acid, to 40%	NR	—
Hydrochloric Acid, to 36%, 75°F/24°C	NR	—
Hydrochloric Acid, to 36%, 158°F/70°C	NR	—
Hydrocyanic Acid	G	E
Hydrofluoric Acid, to 75%, 75°F/24°C	NR	—
Hydrofluosilicic Acid	—	—
Hydrogen Gas, Cold	—	—
Hydrogen Gas, Hot	—	—
Hydrogen Peroxide, to 50%	—	—
Hydrogen Peroxide, to 90%	—	—
Hydrogen Phosphide	NR	—
Hydrogen Sulfide	G	E
Hydroquinone	G	T
Hydroxylamine Sulfate	—	—
Hypochlorous Acid, Dilute	—	—
Iso Octane, 100°F/38°C	G	T
Isododecane	—	—
Isobutyl Alcohol	G	E
Isopropyl Acetate	G	E
Isopropyl Alcohol	G	E
Isopropyl Ether	G	T
JP-3	G	T
JP-4	G	T
JP-5, 6, 7, 8	G	T
Kerosene	G	T
Ketones	G	E
Lactic Acid	—	—
Lard	—	—
Lard Oil	—	—
Latex (1% Styrene & Butadiene)	G	O
Lauric Acid	G	T
Lauryl Chloride	NR	—
Lavender Oil	—	—
Lead Acetate	G	T
Lead Chloride	—	—
Lead Sulfamate	—	—

Chemical Composition	Rating Code	Gasket Grade
Lead Sulfate	—	—
Lime and H2O	G	E/T
Linoleic Acid	G	O
Linseed Oil	—	—
Lithium Bromide	—	—
Lithium Chloride	G	T
Lubricating Oil, Refined	G	T
Lubricating Oil, Sour	G	T
Lubricating Oil, to 150°F/66°C	G	T
Lubricating Oil, 150°F/66°C to 180°F/82°C	—	—
Magnesium Ammonium Sulfate	—	—
Magnesium Chloride	—	—
Magnesium Hydroxide	G	E/T
Magnesium Nitrate	—	—
Magnesium Oxide	—	—
Magnesium Sulfate	G	E/T
Maleic Acid	G	T
Malic Acid	G	T
Mercuric Chloride	NR	—
Mercuric Cyanide	—	—
Mercurous Nitrate	G	E/T
Mercury	G	T
Methyl Acetate	—	—
Methyl Alcohol, Methanol	G	E/T
Methyl Cellosolve (Ether)	—	—
Methyl Chloride	—	—
Methyl Cyclopentane	—	—
Methyl Ethyl Ketone	—	—
Methyl Isobutyl Carbinol	—	—
Methyl Isobutyl Ketone	NR	—
Methylene Chloride	—	—
Methylene Dichloride 100°F/38°C	—	—
MIL-L7808	—	—
MIL-05606	—	—
MIL-08515	—	—
Milk	—	—
Mineral Oils	G	T
Naptha, 160°F/71°C	G	O
Napthalene	NR	—
Napthenic Acid	—	—
Natural Gas	—	—
Nevoil	—	—
Nickel Acetate to 10%, 100°F/38°C	—	—
Nickel Ammonium Sulfate	—	—
Nickel Chloride	G	E/T
Nickel Nitrate	—	—
Nickel Plating Solution 125°F/52°C	—	—
Nickel Sulfate	—	—
Nicotine	—	—
Nicotine Acid	—	—
Nitric Acid to 10%, 75°F/24°C	G	E
Nitric Acid, 10-50%, 75°F/24°C	G	O
Nitric Acid, 50-86%, 75°F/24°C	—	—
Nitric Acid, Red Fuming	—	—
Nitrocellulose	—	—
Nitroethane	—	—
Nitrogen	G	O
Nitromethane	G	E
Nitrous Oxide	G	E
Octyl Alcohol	—	—
Ogisogiric Acid, to 75%, 150°F/66°C	—	—
Oil, Crude Sour	G	T
Oil, Motor	G	T
Oleic Acid	G	T
Olive Oil	—	—
Oronite 8200 Silicate Ester Fluid	—	—

Chemical Composition	Rating Code	Gasket Grade
Orthodichlorobenzene	—	—
OS-45 Silicate Ester Fluid	—	—
OS-45-1	—	—
Oxalic Acid	—	—
Oxygen, Cold †	—	—
Palmitic Acid	G	T
Peanut Oil	—	—
Pentane	G	T
Perchloroethylene	G	O
Perchloric Acid	NR	—
Petroleum Ether (see Benzene)	G	O
Petroleum Oils	G	T
Phenol (Carbolic Acid)	G	O
Phenylhydrazine	—	—
Phenylhydrazine Hydrochloride	—	—
Phosphate Ester	G	E
Phosphoric Acid, to 50% and 70°F	—	—
Phosphoric Acid, to 85% and 200°F	—	—
Photographic Solutions	G	T
Phthalic Anhydride	G	E
Picric Acid, Molten	—	—
Plating Solutions (gold, brass, cadmium, copper, lead, silver, nickel, tin, zinc)	—	—
Polybutene	—	—
Polyvinyl Acetate, Solid (In Liquid State is 50% solution of Methanol or 60% solution of H2O)	—	—
Potassium Alum	—	—
Potassium Bicarbonate	G	E/T
Potassium Bichromate	G	T/E
Potassium Borate	G	E
Potassium Bromate	G	E
Potassium Bromide	G	E/T
Potassium Carbonate	G	E/T
Potassium Chlorate	G	E
Potassium Chloride	G	T
Potassium Chromate	G	T
Potassium Cyanide	—	—
Potassium Dichromate	G	E
Potassium Ferricyanide	G	E
Potassium Ferrocyanide	G	E
Potassium Fluoride	G	E
Potassium Hydroxide	G	T
Potassium Iodide	—	—
Potassium Nitrate	—	—
Potassium Perborate	—	—
Potassium Perchlorate	—	—
Potassium Permanganate, Saturated to 10%	G	E
Potassium Permaganate, Saturate 10-25%	G	E
Potassium Persulfate	—	—
Potassium Phosphate	—	—
Potassium Silicate	—	—
Potassium Sulfate	—	—
Potassium Thiosulfate	—	—
Prestone	—	—
Propanol	—	—
Propargyl Alcohol	—	—
Propyl Acetate	—	—
Propyl Alcohol	G	T
Propylene Dichloride	—	—
Propylene Glycol	—	—
Pydraul F - 9 and 150	NR	—
Pyranol 1467	—	—
Pyranol 1476	—	—

Stainless Steel Butterfly Valve

SERIES 763

Chemical Composition	Rating Code	Gasket Grade
Pyroguard "C"	—	—
Pyroguard "D"	—	—
Pyroguard 55	—	—
Pyrrole	—	—
Rapeseed Oil	—	—
Ref. Fuel (70 ISO Octane, 30 Toluene)	—	—
Rosin Oil	G	T
Salicylic Acid	G	E
Secondary Butyl Alcohol	G	T
Sewage	G	E/T
Silver Cyanide	—	—
Silver Nitrate	G	E
Silver Plating Solution	—	—
Silver Sulfate	—	—
Skydrol, 200°F/93°C	—	—
Skydrol 500 Phosphate Ester	—	—
Soap Solutions	G	E/T
Soda Ash, Sodium Carbonate	G	E/T
Sodium Acetate	G	E
Sodium Alum	—	—
Sodium Benzoate	—	—
Sodium Bicarbonate	G	E/T
Sodium Bisulfate	—	—
Sodium Bisulfite (Black Liquor)	G	E/T
Sodium Bromide	G	E/T
Sodium Carbonate	—	—
Sodium Chlorate	G	E
Sodium Chloride	—	—
Sodium Cyanide	G	E/T
Sodium Dichromate, to 20%	G	E/T
Sodium Ferricyanide	G	E/T
Sodium Ferrocyanide	G	E/T
Sodium Fluoride	G	E/T
Sodium Hydro Sulfide	—	—
Sodium Hydroxide to 50%	G	E
Sodium Hypochlorite, to 20%	G	E
Sodium Metaphosphate	G	T
Sodium Nitrate	G	E
Sodium Nitrite	G	E/T
Sodium Perborate	—	—
Sodium Peroxide	—	—
Sodium Phosphate, Dibasic	—	—
Sodium Phosphate, Monobasic	—	—
Sodium Phosphate, Tribasic	—	—
Sodium Silicate	—	—
Sodium Sulfate	—	—
Sodium Sulfide	—	—
Sodium Sulfite Solution, to 20%	G	T
Sodium Thiosulfate, "Hypo"	G	T
Sohovis 47	—	—
Sohovis 78	—	—
Solvasol #1	—	—
Solvasol #2	—	—
Solvasol #3	—	—
Solvasol #73	—	—
Solvasol #74	NR	—
Soybean Oil	—	—
Spindle Oil	—	—
Stannic Chloride	—	—
Stannous Chyoride, to 15%	G	T
Starch	G	T
Steam	NR	—
Stearic Acid	G	T
Stoddard Solvent	G	T
Styrene	G	O
Sucrose Solutions	—	—
Sulfonic Acid	—	—

Chemical Composition	Rating Code	Gasket Grade
Sulphite Acid Liquor	—	—
Sulfur	G	E
Sulfur Chloride	—	—
Sulfur Dioxide, Dry	—	—
Sulfur Dioxide, Liquid	—	—
Sulfur Trioxide, Dry	—	—
Sulfuric Acid, to 25%, 150°F/66°C	—	—
Sulfuric Acid, 25-50%, 200°F/93°C	—	—
Sulfuric Acid, 50-95%, 150°F/66°C	—	—
Sulfuric Acid, Fuming	—	—
Sulfuric Acid, Oleum	—	—
Sulfurous Acid	—	—
Tall Oil	—	—
Tannic Acid, All Conc.	—	—
Tanning Liquors (50 g. alum. solution, 50 g. dichromate solution)	G	T
Tartaric Acid	G	E
Terpineol	—	—
Tertiary Butyl Alcohol	—	—
Tetrabutyl Titanate	—	—
Tetrachloroethylene	G	O
Tetrahydrofuran	NR	—
Tetralin	NR	—
Thionyl Chloride	—	—
Terpineol	—	—
Thiopene	NR	—
Titanium Tetrachloride	—	—
Toluene, 30%	G	T
Transmission Fluid, Type A	—	—
Triacetin	—	—
Trichloroethane	—	—
Trichloroethylene, to 200°F/93°	G	O
Tricresyl Phosphate	—	—
Triethanolamine	—	—
Trisodium Phosphate	G	E
Tung Oil	G	T
Turbo Oil #15 Diester Lubricant	—	—
Turpentine	—	—
Urea	—	—
Vegetable Oils	—	—
Vinegar	—	—
Vinyl Acetate	—	—
Vi-Pex	—	—
Water, to 150°F/66°C	G	E/T
Water, to 200°F/93°C	G	E
Water, to 230°F/110°C	G	E
Water, Acid Mine	G	E/T
Water, Bromine	—	—
Water, Chlorine	—	—
Water, Deionized	G	E
Water, Seawater	—	—
Water, Waste	G	E/T
Whiskey	—	—
White Liquor	G	E
Wood Oil	—	—
Xylene	—	—
Zinc Chloride, to 50%	—	—
Zinc Nitrate	G	E
Zinc Sulfate	G	E/T

Stainless Steel Butterfly Valve

SERIES 763

INSTALLATION

Reference should always be made to the I-100 Victaulic Field Installation Handbook for the product you are installing. Handbooks are included with each shipment of Victaulic products for 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.

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.

17.23 3021 REV E UPDATED 11/2010