

Corrosion Resistant Thermoplastic Valves and Unions

LIST PRICE SHEET

BALL VALVES

ACTUATED VALVES

MIP BALL VALVES

BUTTERFLY VALVES

CHECK VALVES AND AIR RELEASE VALVES

STRAINERS

UNIONS

SLO-CLOSE VALVES

INFO/TERMS/WARRANTY

PRICE GROUP	DESCRIPTION	DISCOUNT MULTIPLIER	EFFECTIVE - AUGUST 18, 2025 VPS-33 Supersedes VPS-32 Revisions, additions, and price changes are shown in bold print . PDF Update July 1, 2026
VA	TUBVS, SUBVS, SUPER C COMPACTS, BALL CHECK, SWING CHECK, SPRING CHECK, LAB VALVES, AIR RELEASE VALVES		
VB	ACTUATORS, BOLT SETS, Y-STRAINERS, REPAIR PARTS, ACCESSORIES		
VC	BUTTERFLY VALVES		
VK	CONTRACTOR KITS (BFV & WAFER CHECK)		
VM	MIP COMPACT BALL VALVES		
VS	SLO-CLOSE BALL VALVES (SEE PRICE SHEET VPSC-12)		
VT	CPVC CTS BALL VALVES		
VU	PVC SCH 80 UNIONS		

For a list of changes, see page 2.



COLONIAL VALVE
A DIVISION OF COLONIAL ENGINEERING, INC.

Proven Performance Since 1982

6400 Corporate Ave., Portage, MI 49002, Toll-free Phone (800) 374 0234 or (269) 323 2495
Toll-free Fax (866) 879 5982 or (269) 323 0630, colonialengineering.com

**Bolt Set &
Gasket KITS for
Flg x Flg connections**
Page 17

**Continuous-Acting Air Release /
Vacuum Breaker Valve**
Page 21

Visit Us Online!

Design & Installation Information | Installation/Operation/Maintenance Sheets
Valve Submittals & 3D CAD Files | Sample Engineering Specs | Industry Standards
Chemical Resistance Information | Custom Injection Molding | Industry Links



REVISIONS, ADDITIONS, AND PRICE CHANGES ARE SHOWN IN BOLD PRINT.

Master Carton Quantity changes:

In some cases, the change is limited to a reduction in master carton quantity. Those changes are being phased in through the inventory, so please check your current or inbound stock before updating your system. (See pg 4, 9, 11, 12, 15, 19, 20)

List Price Increases on Select Products

List price increases have been implemented due to tariffs imposed in 2025. Where ever possible, the effects of the tariffs have been mitigated by improved manufacturing and supply-chain management. Increased prices will be shown in **BOLD** print, with the percentage-change indicated.

New Products:

- New configurations for Stem Extensions for Buttery Valves 16
- New Kits Including Gaskets & Bolts Sets for Flanged Connections 17
- Continuous-Acting Air Release / Vacuum Breaker Valves 21

Page



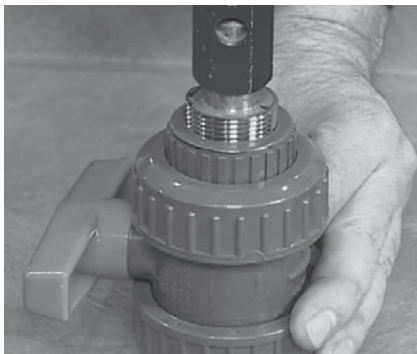
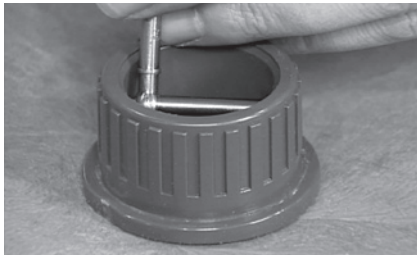
www.colonialengineering.com

RECOMMENDATIONS TO INSTALLERS AND USERS

For over 50 years, thermoplastic valves have been growing in acceptance as an effective choice over metal valves in many applications. The advantages of thermoplastic valves include:

- Thermoplastic valves are dielectric, so they do not support an electrical charge. This enables them to be immune from the electro-chemical corrosion that occurs with metal valves.
- Thermoplastic materials are immune to microbiological-influenced corrosion that leads to rust and pitting in metal valves.
- Interior walls are molded with a smooth finish that enables high flow coefficient and consistent performance over an extended service life.
- Up to 70% lighter in weight than metal valve counterparts. This allows for lower freight and handling costs, and ease of installation.
- Lower thermal conductivity than metal valves, minimizing heat loss or gain.

Value-added engineering, adherence to ASTM standards for materials and dimensions, and stringent manufacturing quality make Colonial Thermoplastic Valves your solution for reliable flow control.



All socket and thread dimensions meet ASTM requirements:

- PVC D-2467, D-2464 (ANSI B1.20.1)
- CPVC F-439, F437 (ANSI B1.20.1)
- All flange dimensions are ANSI/ASME B16.5 Class 150 (Steel flange bolt pattern).

Viton® is a registered trademark of DuPont Performance Elastomers.

Material Specifications

PVC conforms to ASTM D-1784, Cell Class 12454
CPVC conforms to ASTM D-1784, Cell Class 23447
PP conforms to ASTM D-4101 (Natural)

See Page 22 For Details on Seat and O-Ring Materials

Plastic piping systems should be engineered, installed, operated and maintained in accordance with accepted standards and procedures. Suitability for the intended application should be determined and verified by the designer and/or installer. Prior to assembly, all piping components should be inspected for damage or irregularities, and for the proper fit of mating components. The published instructions of the manufacturers of all attributes of the piping system (including but not limited to: pipe, fittings, valves, solvent cement & primer, thread sealant or Teflon tape) must be followed. All design, installation, operation and maintenance personnel must be trained on the proper precautions, use, handling, and installation of thermoplastic piping systems prior to use. A **NOTE ON VALVE SELECTION:** Ball Valves are designed for On/Off service and are NOT SUITABLE for long-term throttling in a semi-closed position. Butterfly Valves ARE SUITABLE for both throttling and for On/Off service.

In order to maintain consistent operational torque, it is recommended that a valve should be exercised (cycled open/close) at least once a month.

TEMPERATURE CORRECTION FACTORS FOR VALVES & UNIONS (ABOVE 73°F)

Temp (°F)	PVC	CPVC	PP
73	1.00	1.00	1.00
80	.88	.96	.93
90	.75	.92	.83
100	.62	.85	.74
110	.50	.77	.66
120	.40	.70	.58
130	.30	.62	.51
140	.22	.55	.40
150	NR	.47	.38
160	NR	.40	.35
170	NR	.32	.29
180	NR	.25	.23
200	NR	.18	.14
210	NR	.15	.10
240	NR	NR	NR
280	NR	NR	NR

NR: Not Recommended

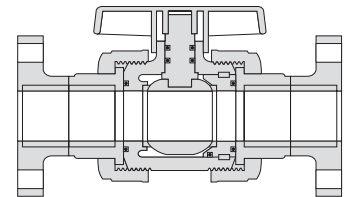
Caution: Colonial recommends a minimum installation distance of 10 X the pipe diameter from a pump or other sources of turbulence.

COMPRESSED AIR WARNING

The products in this document are only intended for use in transferring or storing chemically compatible pressurized liquids. Do not test or use products in this document with compressed air or other gases. Doing so is dangerous and could cause injury or great bodily harm should a system fail under compressed air. Only use products that are specifically designed for compressed air/gas service. Call Colonial technical service for more information.

METAL TO PLASTIC TRANSITION WARNING

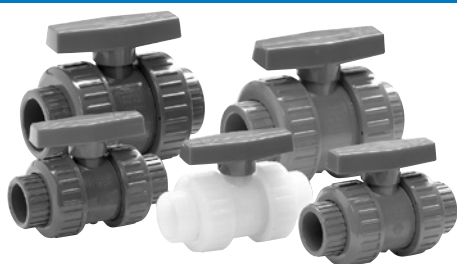
Colonial does not recommend the joining of metal pipe threads with plastic female pipe threads. To join a metal system with a plastic system, we recommend the use of a transition union or flanged end connections (shown below).



Commercial Pool system with Colonial BFVs

Pressure ratings are for non-shock water at 73°F.

FULL BLOCK™ INDUSTRIAL TRUE UNION BALL VALVE WITH TEFLON® SEATS



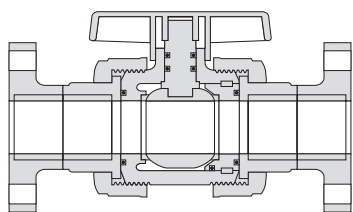
- Premium performance in piping systems since 1984
- Pressure Rating (non-shock water 73°F):
235 psi 1/2" - 2"
150 psi 2-1/2" - 6"
- Pressure rating per ASTM F-1970
- Features external seat-wear adjustment.
- Actuated valve packages available on TUBV's and Butterfly Valves.
- **Full Port Schedule 80 Design**
- Smooth Turning
- Repair Parts Available
- Full Port Sch 80 design virtually eliminates pressure drop, providing excellent flow characteristics.
- Assembled with water soluble, silicone-free O-ring lubricant. (Exception: 2-1/2")
- **Certified to NSF/ANSI 61 and 372**



Note: 3/8" and 1/4" sizes are available (1/2" valves pre-assembled with reducer bushings). Contact Customer Service for part number and pricing.

Opening Torque Under Pressure

Size	Torque (In lbs.)	Size	Torque (In lbs.)
1/2	16	1-1/4, 1-1/2	110
3/4	35	2	180
1	60	3	600
		4	1,000



(Flanged Type)

※¹ 6" Venturied: Assembled with 4" valve and 6 x 4 reducing couplings

※² 2-1/2" TUBV's are from the Commercial Series. Full Port. PTFE seat. 150 psi.

See page 22 for details on O-Ring and Seat Materials

Part No. Size Ctn. Qty. %Change List

PVC w/EPDM O-RINGS: Pricing Schedule VA

Socket & Threaded End Connectors

V07101N	1/2	24		\$71.51
V08101N	3/4	24		83.72
V10101N	1	24		98.84
V14101N	1-1/4	12		167.91
V17101N	1-1/2	12		167.91
V20101N	2	6		223.93
V27050N ※ ²	2-1/2	4		314.10

Socket

V30101N	3	4		\$532.18
V40101N	4	1		918.38
V60101N ※ ¹	6	1		1,423.99

Threaded

V30111N	3	4		\$532.18
V40111N	4	1		918.38

Flanged

V07121N	1/2	1		\$115.40
V08121N	3/4	1		146.18
V10121N	1	1		176.94
V14121N	1-1/4	1		207.69
V17121N	1-1/2	1		261.57
V20121N	2	1		417.33
V27151N ※ ²	2-1/2	1		679.99
V30121N	3	1		807.70
V40121N	4	1		1,623.99
V60121N ※ ¹	6	1		2,367.89

Part No. Size Ctn. Qty. %Change List

CPVC w/EPDM O-RINGS: Pricing Schedule VA

Socket & Threaded End Connectors

V07103N	1/2	24		\$113.31
V08103N	3/4	24		142.73
V10103N	1	24		169.90
V14103N	1-1/4	12		285.26
V17103N	1-1/2	12		285.26
V20103N	2	6		381.54
V27053N ※ ²	2-1/2	4		631.57

Socket

V30103N	3	4		\$1,052.69
V40103N	4	1		1,615.17
V60103N	6	1		2,664.08

Threaded

V30113N	3	4		\$1,052.69
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Flanged

V07123N	1/2	1		\$190.31
V08123N	3/4	1		232.73
V10123N	1	1		269.34
V14123N	1-1/4	1		400.08
V17123N	1-1/2	1		439.29
V20123N	2	1		611.87
V30123N	3	1		1,584.59
V40123N	4	1		2,776.94
V60123N ※ ¹	6	1		3,986.42

Part No. Size Ctn. Qty. %Change List

PVC w/FKM O-RINGS: Pricing Schedule VA

Socket & Threaded End Connectors

V07102N	1/2	24		\$81.19
V08102N	3/4	24		94.11
V10102N	1	24		113.39
V14102N	1-1/4	12		187.01
V17102N	1-1/2	12		187.01
V20102N	2	6		246.59
V27052N ※ ²	2-1/2	4		449.91

Socket

V30102N	3	4		\$592.88
V40102N	4	1		1,012.57
V60102N ※ ¹	6	1		1,517.21

Threaded

V30112N	3	4		\$592.88
V40112N	4	1		1,012.61

Flanged

V07122N	1/2	1		\$129.18
V08122N	3/4	1		159.00
V10122N	1	1		191.28
V14122N	1-1/4	1		207.69
V17122N	1-1/2	1		285.67
V20122N	2	1		439.70
V27152N	2-1/2	1		757.86
V30122N	3	1		1,003.57
V40122N	4	1		1,880.47
V60122N ※ ¹	6	1		2,426.98

Part No. Size Ctn. Qty. %Change List

CPVC w/FKM O-RINGS: Pricing Schedule VA

Socket & Threaded End Connectors

V07104N	1/2	24		\$125.93
V08104N	3/4	24		158.63
V10104N	1	24		188.77
V14104N	1-1/4	12		309.49
V17104N	1-1/2	12		309.49
V20104N	2	6		438.62
V27054N ※ ²	2-1/2	4		666.36

Socket

V30104N	3	4		\$1,132.00
V40104N	4	1		1,913.02
V60104N ※ ¹	6	1		3,126.12

Threaded

V30114N	3	4		1,132.00
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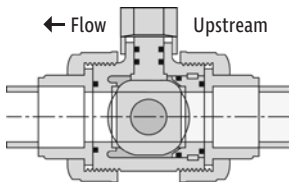
Flanged

V07124N	1/2	1		\$214.40
V08124N	3/4	1		245.79
V10124N	1	1		285.04
V14124N	1-1/4	1		413.14
V17124N	1-1/2	1		454.97
V20124N	2	1		729.54
V27154N	2-1/2	1		1,329.58
V30124N	3	1		1,618.58
V40124N	4	1		2,889.40
V60124N ※ ¹	6	1		4,721.31

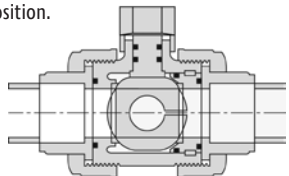
Pressure ratings are for non-shock water at 73°F.

VENTED FULL BLOCK™ TRUE UNION BALL VALVE WITH TEFLON® SEATS (For Sodium Hypochlorite Applications)

For Sodium Hypochlorite (Bleach) and other chemical process applications where entrapped fluids may cause plating, and may form a build up of gasses produced as a result of decomposing solution trapped in the ball and body of the valve in the closed position. The vented Ball Valve provides a solution for the application (see illustration).



Standard Valve - Fluid entrapped in ball and body in closed position.



With Colonial Vented Ball Valves, the ball is vented to the pressure (upstream) port allowing the interior of the ball and body to remain wetted to prevent the occurrence of decomposition and plating.

※¹ 6" Venturied: Assembled with 4" valve and 6 x 4 red couplings

※² 2-1/2" TUBVs are from the Commercial Series. Full Port. PTFE seat. 150 psi.



Part No. Size Ctn. Qty. %Change List

PVC w/FKM: Pricing Schedule VA

Socket & Threaded End Connectors

V07102N-V	1/2	1		\$95.94
V08102N-V	3/4	1		108.84
V10102N-V	1	1		128.16
V14102N-V	1-1/4	1		211.60
V17102N-V	1-1/2	1		211.60
V20102N-V	2	1		276.07

V27052N-V ※ ² 2-1/2	1			547.47
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Socket End Connectors

V30102N-V	3	1		629.76
V40102N-V	4	1		1,049.44
V60102N-V ※ ¹ 6	1			1,554.07

PVC/FKM THREADED: Pricing Schedule VA

V30112N-V	3	1		\$629.76
V40112N-V	4	1		1,049.44

PVC w/FKM FLANGED: Pricing Schedule VA

Socket & Threaded End Connectors

V07122N-V	1/2	1		\$143.93
V08122N-V	3/4	1		173.72
V10122N-V	1	1		206.02
V14122N-V	1-1/4	1		255.26
V17122N-V	1-1/2	1		310.27
V20122N-V	2	1		445.71
V27152N-V	2-1/2	1		808.39
V30122N-V	3	1		1,040.43
V40122N-V	4	1		1,917.33
V60122N-V ※ ¹ 6	1			2,463.86

Part No. Size Ctn. Qty. %Change List

CPVC w/FKM: Pricing Schedule VA

Socket & Threaded End Connectors

V07104N-V	1/2	1		\$123.93
V08104N-V	3/4	1		170.27
V10104N-V	1	1		204.30
V14104N-V	1-1/4	1		323.23
V17104N-V	1-1/2	1		323.23
V20104N-V	2	1		469.64

V27054N-V ※ ² 2-1/2	1			854.94
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Socket End Connectors

V30104N-V	3	1		\$1,170.78
V40104N-V	4	1		1,951.83
V60104N-V ※ ¹ 6	1			3,164.91

CPVC/FKM THREADED: Pricing Schedule VA

V30114N-V	3	1		\$1,170.78
V40114N-V	4	1		1,951.83

CPVC w/FKM FLANGED: Pricing Schedule VA

V07124N-V	1/2	1		\$229.93
V08124N-V	3/4	1		261.33
V10124N-V	1	1		300.52
V14124N-V	1-1/4	1		439.00
V17124N-V	1-1/2	1		480.87
V20124N-V	2	1		760.58
V27154N-V	2-1/2	1		1,391.66
V30124N-V	3	1		1,657.40
V40124N-V	4	1		2,928.21
V60124N-V ※ ¹ 6	1			4,760.11

FULL BLOCK™ PP TRUE UNION BALL VALVE WITH TEFLON® SEATS

• Pressure rating 150 psi

Polypropylene valves offer high chemical resistance, low extractable values, and elevated temperature capabilities.* They are suitable for a wide range of applications including corrosive chemical waste, and process piping in chemical and industrial plants, water treatment facilities, laboratories, the semiconductor market, and biotechnology.

Part No. Size Ctn. Qty. %Change List

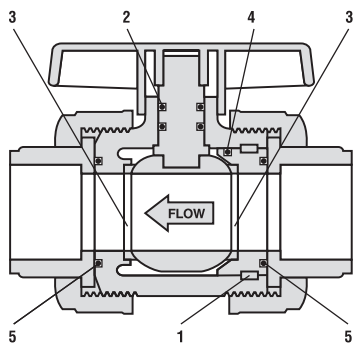
PP w/FKM O-RINGS: Pricing Schedule VA

Socket (Fusion) & Threaded End Connectors

V07106N	1/2	24		\$91.94
V08106N	3/4	24		107.53
V10106N	1	24		136.16
V17106N	1-1/2	12		225.89
V20106N	2	6		306.19



FULL BLOCK™ REPAIR KIT



Number	Component	Quantity	Material
1	Locking Strip	1	PVDF
2	Stem O-Ring	2	EPDM, FKM
3	Ball Seat	2	TEFLON®
4	Carrier O-Ring	1	EPDM, FKM
5	Face O-Ring	2	EPDM, FKM

Part No. Size Ctn. Qty. %Change List

EPDM: Pricing Schedule VB

V07101NR	1/2	1		\$9.23
V08101NR	3/4	1		10.03
V10101NR	1	1		17.66
V14101NR	1-1/4	1		30.93
V17101NR	1-1/2	1		30.93
V20101NR	2	1		43.38
V30101NR	3	1		56.02
V40101NR	4	1		85.08

FKM: Pricing Schedule VB

V07102NR	1/2	1		\$19.86
V08102NR	3/4	1		27.92
V10102NR	1	1		37.16
V14102NR	1-1/4	1		41.83
V17102NR	1-1/2	1		41.83
V20102NR	2	1		64.81
V30102NR	3	1		138.34
V40102NR	4	1		201.16

REPLACEMENT PARTS

Part No. Size Ctn. Qty. %Change List

REPLACEMENT HANDLES FOR FULL BLOCK™ TRUE UNION BALL VALVES

Pricing Schedule VB

V07101K2	1/2	1		\$4.20
V08101K2	3/4	1		6.42
V10101K2	1	1		8.44
V14101K2	1-1/4	1		12.66
V17101K2	1-1/2	1		12.66
V20101K2	2	1		16.92
V30101K	3	1		33.76
V40101K	4	1		44.11

OTHER AVAILABLE REPLACEMENT PARTS

Ball, Stem

Pressure ratings are for non-shock water at 73°F.

PLASTIC LOCKOUT FOR INDUSTRIAL AND COMMERCIAL TRUE UNION BALL VALVES, AND SUPER C BALL VALVES

Part No.	Sizing for Industrial Full Block Series & Commercial Series TUBV	Sizing for Super C & 2-Piece Compact Ball Valves	Ctn. Qty.	% Change	List
Pricing Schedule VB					
V481	Fits Size 1/2 - 1" TUBV	Fits Size 1/2 - 1" Valve	1	20%	\$122.75
V482	Fits Size 1-1/4 - 2" TUBV	Fits Size 1-1/4 - 2" Valve	1	20%	167.86
V483	Fits Size 2-1/2 - 4" TUBV	Fits Size 2-1/2 & 3" Valve	1	20%	205.76



(Shown on TUBV)*

Note: Padlock not included

END CONNECTORS AND UNION NUTS FOR FULL BLOCK INDUSTRIAL TUBV SERIES

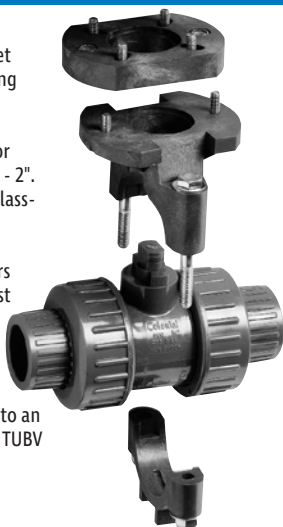
Part No.	Size	Ctn. Qty.	%Change	List	Part No.	Size	Ctn. Qty.	%Change	List	Part No.	Size	Ctn. Qty.	%Change	List
Socket End Connector - PVC: Pricing Schedule VB					FIPT End Connector - PVC: Pricing Schedule VB					Union Nut - PVC: Pricing Schedule VB				
V07101Z	1/2	1		\$5.23	V07111Z	1/2	1		\$5.23	V07101Y	1/2	1		\$10.67
V08101Z	3/4	1		6.53	V08111Z	3/4	1		6.53	V08101Y	3/4	1		14.87
V10101Z	1	1		8.22	V10111Z	1	1		8.22	V10101Y	1	1		19.09
V14101Z	1-1/4	1		13.36	V14111Z	1-1/4	1		13.36	V17101Y	1-1/4 & 1-1/2	1		31.73
V17101Z	1-1/2	1		13.36	V17111Z	1-1/2	1		13.36					
V20101Z	2	1		14.66	V20111Z	2	1		14.66	V20101Y	2	1		52.83
V30101Z	3	1		40.52	V30111Z	3	1		40.52	V30101Y	3	1		56.94
V40101Z	4	1		52.19	V40111Z	4	1		52.19	V40101Y	4	1		89.09
Socket End Connector - CPVC: Pricing Schedule VB					FIPT End Connector - CPVC: Pricing Schedule VB					Union Nut - CPVC: Pricing Schedule VB				
V07104Z	1/2	1		\$10.43	V07114Z	1/2	1		\$10.43	V07104Y	1/2	1		\$26.52
V08104Z	3/4	1		13.07	V08114Z	3/4	1		13.07	V08104Y	3/4	1		37.16
V10104Z	1	1		16.48	V10114Z	1	1		16.48	V10104Y	1	1		47.81
V14104Z	1-1/4	1		26.70	V14114Z	1-1/4	1		26.70	V17104Y	1-1/4 & 1-1/2	1		47.63
V17104Z	1-1/2	1		26.70	V17114Z	1-1/2	1		26.70					
V20104Z	2	1		29.33	V20114Z	2	1		29.33	V20104Y	2	1		53.20
V30104Z	3	1		55.49	V30114Z	3	1		55.49	V30104Y	3	1		134.49
V40104Z	4	1		90.90	V40114Z	4	1		90.90	V40104Y	4	1		222.71

MOUNTING KIT FOR 1/2" - 2" FULL BLOCK TRUE UNION BALL VALVE SERIES

Plastic Bracket:

Upper & lower bracket sections and mounting plate. SS Fasteners.

- Custom designed for Full Block TUBV 1/2 - 2".
- Molded from fiberglass-filled PVC for extra strength
- Includes SS fasteners (Stem coupling must be ordered separately)
- ISO 5211 mounting pattern
- Can be retro-fitted to an installed Full Block TUBV

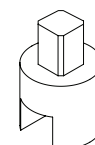
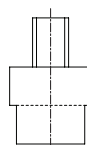
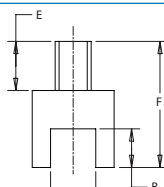
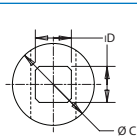


BRACKET: Pricing Schedule VB

Part No.	For Valve Size	ISO Pattern	% Change	List
V07501A	1/2	F04 / F05		\$50.70
V08501A	3/4	F04 / F05		55.31
V10501A	1 F04 / F05		58.39	

BRACKET: Pricing Schedule VB

Part No.	For Valve Size	ISO Pattern	% Change	List
V17501A	1-1/2 & 1-1/4	F05		\$64.52
V20501A	2	F05		69.12



SS STEM COUPLINGS:

Pricing Schedule VB

SIZE	A	B	C	D	D (mm)	E	F	ISO	PART NUMBER	% Change	List
1/2"	.320	.335	1.00	.430	11	.500	1.440	F04	V07502A	10%	\$72.20
3/4"	.380	.390	1.00	.430	11	.500	1.410	F04	V08502A	10%	72.20
1"	.440	.450	1.00	.430	11	.500	1.490	F04	V10502A	10%	74.43
1-1/2", 1-1/4"	.560	.570	1.25	.550	14	.629	1.740	F05	V17502A	10%	76.03
1-1/2", 1-1/4"	.560	.570	1.25	.430	11	.500	1.490	F04	V17502A-F04	10%	76.03
2"	.690	.575	1.25	.550	14	.629	1.920	F05	V20502A	10%	76.03
2"	.690	.575	1.25	.430	11	.500	1.65	F04	V20502A-F04	10%	76.03

BRACKET FOR 3" & 4" FULL BLOCK TRUE UNION BALL VALVES



(Shown mounted on valve - sold separately)

Molded from high impact PVC material, this bracket features a mounting pad with a PCD of 102mm/4.02" (ISO 5211 F10). The valve and mounting bracket are ordered separately. The bracket can be field-mounted on a Colonial Full Block TUBV (produced after 2013). It is secured to the valve body with anchoring fasteners (included).

The PVC mounting kit is suitable for use on both PVC and CPVC valves, providing that the atmospheric temperature (on the exterior of the valve) does not exceed 120 degrees. It is designed only for horizontal installation (valve stem / actuator facing UP), not for vertical (valve stem/actuator facing to the side) applications. Maximum allowable weight for actuator: 25 lbs.

17mm square stainless steel stem coupling (K11033) is sold separately.

Order valve, bracket, and stem coupling separately.

Torque Values For Full Block True Union Ball Valves

Valve Size		Opening Torque (In-Lbs)			
1/2"	16	1-1/4"	110	3"	600
3/4"	35	1-1/2"	110	4"	1,000
1"	60	2"	180		

Pricing Schedule VB

Part No.	Description	% Change	List Price
V30501P	Bracket* to fit 3" Valve		\$127.07
V40501P	Bracket* to fit 4" Valve		127.07
K11033	Stem Coupling 17mm SQ SS	10%	162.46

*Bracket includes SS fasteners to anchor bracket to body, but does not include fasteners to mount the bracket to the actuator.

Pressure ratings are for non-shock water at 73°F.

ACTUATED VALVES



Submittals and wiring diagrams for actuators are available at www.colonialengineering.com or call customer service.



See page 8 for the part numbering format for Actuated Valve Assemblies.

Colonial offers pneumatic or electric actuated True Union Ball Valves and Butterfly Valves. Mounting Kits, Valves, Actuators and Accessories can be sold separately, or as complete, tested assemblies. Colonial offers actuators that are sized to fit Colonial Full Block TUBVs in sizes ranging from 1/2" - 4", and (Direct Mount) Butterfly Valves 2" - 12".

Please contact customer service with your request for quotation.
Required information for Actuated Valve assembly quotations:

Electric Actuator

115 VAC or 24 VAC or 24VDC
On/Off Electric or Fail-safe?
4-20 mA positioner needed? (Modulating)
Desired cycle time for 1/4 turn rotation?

Pneumatic Actuator

- Double Acting or Spring Return (Fail-safe)?
- Solenoid (pilot valve) needed?
- 1/4" NPT Air Connections?
- Remote Position Indicators or other accessories needed?
- Speed muffler (Needle-valve) required to decrease cycle-time?

Electric Actuator features:

- Housing constructed of self-extinguishing, corrosion-resistant technopolymer material.
- Stainless Steel fasteners.
- Electronic Circuit adjusts the motor speed depending on the mechanical charge variations to keep the drive cycle time consistent.
- Electronic torque limitation
- Built-in heater activates when temperature in the housing drops below 77° F.
- Battery activated Fail-safe accessory available.
- Available 24VAC/VDC or 115/240 VAC

Pneumatic Actuator features:

- Namur VDI/VDE 3845 and ISO 5211 dimensions on all sizes. No special blocks are required to mount solenoid valves, limit switches or positioners
- Air-to-Air and Spring Return (Fail-safe) models available

Complete technical brochures (PDFs) are available at www.colonialengineering.com

Electric Actuator Sizing - Table A

Ball Valve		Butterfly Valve	
Size	Actuator	Size	Actuator
1/2"	VB010 or 015		
3/4"	VB010 or 015		
1"	VB010 or 015		
1-1/4"	VB015*		
1-1/2"	VB015*		
2"	VB030	2"	VB030
3"	VB110	3"	VB060
4"	VB190	4"	VB060
		6"	VB110
		8"	VB270
		10"	VB350
		12"	NL4.4K

Pneumatic Actuator Sizing - Double Acting - Table B

Ball Valve		Butterfly Valve	
Size	Actuator	Size	Actuator
1/2"	DA52		
3/4"	DA52		
1"	DA52		
1-1/4"	DA63		
1-1/2"	DA63		
2"	DA63	2"*	DA63
3"	DA100	3"	DA63
4"	DA100	4"*1	DA75
		6"	DA85
		8"	DA115
		10"	DA125
		12"	DA160

* requires 14x11 adapter
*1 requires 17x14 adapter

* Use V17502A-F04 Stem-Coupling

Pneumatic Actuator Sizing - Spring Return

Ball Valve		Butterfly Valve	
Size	Actuator	Size	Actuator
1/2"	SR52		
3/4"	SR52		
1"	SR52		
1-1/4"	SR63		
1-1/2"	SR63		
2"	SR75	2"*	SR63
3"	SR100	3"*1	SR75
4"	N/A	4"*1	SR100
		6"*2	SR115
		8"*3	SR140
		10"	N/A
		12"	N/A

* requires 14x11 adapter
*1 requires 17x14 adapter
*1 requires 22x17 adapter
*1 requires 27x22 adapter

Pressure ratings are for non-shock water at 73°F.

PART NUMBERING FORMAT FOR ACTUATED VALVE ASSEMBLIES: SUFFIX IN THE ASSEMBLY PART NUMBER WILL INDICATE WHICH TYPE OF ACTUATOR IS TO BE USED IN THE ASSEMBLY

For Electric Assemblies

Ball Valve: Replace "N" at the end of the ball valve part number with "E" and the remaining code for the proper actuator.

Butterfly Valve: Replace "ND" at the end of the Direct-mount Butterfly Valve part number with "E" and the remaining code for the proper actuator.

ACTUATOR Suffix	24 VAC/VDC On/Off	115-240 VAC On/Off	24V Fail-safe	115-240V Fail-safe	24V Modulating	115-240V Modulating
E	2	3	12	13	22	23

Table A on page 7 shows the Electric Actuator model that is paired with the valve type and size

For Pneumatic Assemblies

Ball Valve: Replace "N" at the end of the ball valve part number with "DA" for Double-Acting, or "SR" for Spring Return, and the remaining code for the proper actuator.

Butterfly Valve: Replace "ND" at the end of the Direct-mount Butterfly Valve part number with "DA" for Double-Acting, or "SR" for Spring Return, and the remaining code for the proper actuator

Table B on page 7 shows the Pneumatic Actuator model that is paired with the valve type and size

USE THE PART NUMBERS IN THE TABLES BELOW TO RECEIVE THE PVC/EPDM VALVE, BRACKET, AND ACTUATOR, ASSEMBLED AND TESTED.

Ball Valve Actuated Assembly Part Numbers

Contact Customer Service for Pricing

TABLE C				
Size	Description	Description	Description	Description
	True Union Ball Valve PVC/EPDM with 24VAC/VDC Actuator	True Union Ball Valve PVC/EPDM with 115-240 VAC Actuator	True Union Ball Valve PVC/EPDM with Double-Acting Pneumatic Actuator	True Union Ball Valve PVC/EPDM with Spring-Return Pneumatic Actuator
	Part Number	Part Number	Part Number	Part Number
1/2	V07101E2	V07101E3	V07101DA52	V07101SR52
3/4	V08101E2	V08101E3	V08101DA52	V08101SR52
1	V10101E2	V10101E3	V10101DA52	V10101SR52
1-1/4	V14101E2	V14101E3	V14101DA63	V14101SR63
1-1/2	V17101E2	V17101E3	V17101DA63	V17101SR63
2	V20101E2	V20101E3	V20101DA63	V20101SR63
3	V30101E2	V30101E3	V30101DA100	V30101SR100
4	V40101E2	V40101E3	V40101DA100	N/A

Butterfly Valve Assembly Part Numbers

Contact Customer Service for Pricing

Size	Description	Description	Description	Description	Description
	Butterfly Valve PVC/EPDM with 24VAC/VDC ON/OFF Actuator	Butterfly Valve PVC/EPDM with 115-240 VAC ON/OFF Actuator	Butterfly Valve PVC/EPDM with 115-240 VAC Fail-safe Actuator	Butterfly Valve PVC/EPDM with 115-240 VAC Modulating Actuator	Butterfly Valve PVC/EPDM with Double-Acting Pneumatic Actuator
	Part Number	Part Number	Part Number	Part Number	Part Number
2	V20411E2	V20411E3	V20411E13	V20411E23	V20411DA63
3	V30411E2	V30411E3	V30411E13	V30411E23	V30411DA63
4	V40411E2	V40411E3	V40411E13	V40411E23	V40411DA75
6	V60411E2	V60411E3	V60411E13	V60411E23	V60411DA85
8	V80411E2	V80411E3	V80411E13	V80411E23	V80411DA115
10	V100411E2	V100411E3	V100411E13	V100411E23	V100411DA125
12	V120411E2	V120411E3	V120411E13	V120411E23	V120411DA160

For other combinations of valve + actuator, use the part numbering system described on this page.

Example 1: V20104E13 = 2" True Union Ball Valve CPVC/Viton with a 115-240 VAC On-Off Actuator with Battery Backup Failsafe

Example 3: V10102E2 = 1" True Union Ball Valve, PVC/Viton with a 24VAC/VDC On/Off Actuator

Example 3: V60411E3 = 6" Butterfly Valve PVC/EPDM with a 115-240 VAC On/Off Actuator

Example 4: V40411SR100 = 4" Butterfly Valve PVC/EPDM with Spring-Return Pneumatic Actuator

Example 5: V80411E1323 = 8" Butterfly Valve PVC/EPDM with 115 VAC Actuator with 4-20mA positioner, Battery Backup Failsafe, and Manual Override

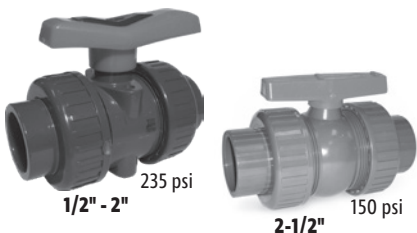
Pressure ratings are for non-shock water at 73°F.

ACTUATORS

Part No	Description	List	WGT (lbs)	Part No	List	WGT (lbs)	Part No	List	WGT (lbs)
Electric Actuators: Pricing Schedule VB				Pneumatic Double-Acting: Pricing Schedule VB			Pneumatic Spring-Return (Fail Safe)		
VB010-002	24 VAC/VDC On/Off ACTUATOR	*	2.6	DA52	*	2.47	SR52	*	2.62
VB010-003	115/240 VAC On/Off ACTUATOR	*	2.6	DA63	*	3.26	SR63	*	3.97
VB015-002	24 VAC/VDC On/Off ACTUATOR	*	3.09	DA75	*	5.51	SR75	*	6.94
VB015-003	115/240 VAC On/Off ACTUATOR	*	3.09	DA85	*	7.39	SR85	*	9.37
VB030-002	24 VAC/VDC On/Off ACTUATOR	*	5.07	DA100	*	11.02	SR100	*	14.4
VB030-003	115/240 VAC On/Off ACTUATOR	*	5.07	DA115	*	17.75	SR115	*	23.92
VB030-012	24 VAC/VDC On/Off ACT W/ FAIL-SAFE	*	5.07	DA125	*	22.09	SR125	*	26.76
VB030-013	115/240 VAC On/Off ACT W/ FAIL-SAFE	*	5.07	DA160	*	43.21	SR140	*	45.28
VB030-022	24 VAC/VDC On/Off ACT W/ POSITIONER	*	5.07						
VB030-023	115/240 VAC On/Off ACT W/ POSITIONER	*	5.07	Part No	Description		List	WGT (lbs)	
VB060-002	24 VAC/VDC On/Off ACTUATOR	*	7.28	Optional Accessories for Pneumatic Actuators: Pricing Schedule VB					
VB060-003	115/240 VAC On/Off ACTUATOR	*	7.28	Solenoid (4-way Single Solenoid Namur Valve):					
VB060-012	24 VAC/VDC On/Off ACT W/ FAIL-SAFE	*	7.28	NMR1-C1	115 VAC, 1/4" NPT Ports		*	0.45	
VB060-013	115/240 VAC On/Off ACT W/ FAIL-SAFE	*	7.28	NMR1-C2	24VAC, 1/4" NPT Ports		*	0.45	
VB060-022	24 VAC/VDC On/Off ACT W/ POSITIONER	*	7.28	Limit Switch IP67, Nema 4, 4x, CSA Approved, with SS Namur bracket					
VB060-023	115/240 VAC On/Off ACT W/ POSITIONER	*	7.28	LS2-B	2 SPDT 5A 125-250VAC, 3A 24VDC		*	1.00	
VB110-002	24 VAC/VDC On/Off ACTUATOR	*	10.8	Electromagnetic Positioner - 4-20mA, IP 66 Enclosure, with Namur bracket					
VB110-003	115/240 VAC On/Off ACTUATOR	*	10.8	ENP-B			*	3.1	
VB110-012	24 VAC/VDC On/Off ACT W/ FAIL-SAFE	*	10.8	ENP-B-F	With 4-20mA analog feedback control		*	3.1	
VB110-013	115/240 VAC On/Off ACT W/ FAIL-SAFE	*	10.8	Speed Muffler: "Meter-out" type, to decrease cycle time/avoid water-hammer					
VB110-022	24 VAC/VDC On/Off ACT W/ POSITIONER	*	10.8	VSM02	Mounts on solenoid with 1/4" port		*	0.2	
VB110-023	115/240 VAC On/Off ACT W/ POSITIONER	*	10.8	VSM01E	Elbow Type, mounts directly on actuator with 1/8" port, accepts 1/4" tube. Use with DA or SR 52,63,75 & 85		*	0.2	
VB190-002	24 VAC/VDC On/Off ACTUATOR	*	10.8	VSM02E	Elbow Type, mounts directly on actuator with 1/4" port, accepts 1/4" tube. Use with DA or SR 100,115,125, 140 & 160		*	0.2	
VB190-003	115/240 VAC On/Off ACTUATOR	*	10.8						
VB190-012	24 VAC/VDC On/Off ACT W/ FAIL-SAFE	*	10.8	14X11SSQ	14 x 11mm Single Square Adapter SS		*	0.05	
VB190-013	115/240 VAC On/Off ACT W/ FAIL-SAFE	*	10.8	17X14SSQ	17 x 14mm Single Square Adapter SS		*	0.08	
VB190-022	24 VAC/VDC On/Off ACT W/ POSITIONER	*	10.8	22X17SSQ	22 x 17mm Single Square Adapter SS		*	0.1	
VB190-023	115/240 VAC On/Off ACT W/ POSITIONER	*	10.8	27X22SSQ	27 x 22mm Single Square Adapter SS		*	0.125	
VB270-002	24 VAC/VDC On/Off ACTUATOR	*	13.3						
VB270-003	115/240 VAC On/Off ACTUATOR	*	13.3						
VB270-012	24 VAC/VDC On/Off ACT W/ FAIL-SAFE	*	13.3						
VB270-013	115/240 VAC On/Off ACT W/ FAIL-SAFE	*	13.3						
VB270-022	24 VAC/VDC On/Off ACT W/ POSITIONER	*	13.3						
VB270-023	115/240 VAC On/Off ACT W/ POSITIONER	*	13.3						
VB350-002	24 VAC/VDC On/Off ACTUATOR	*	13.3						
VB350-003	115/240 VAC On/Off ACTUATOR	*	13.3						
VB350-012	24 VAC/VDC On/Off ACT W/ FAIL-SAFE	*	13.3						
VB350-013	115/240 VAC On/Off ACT W/ FAIL-SAFE	*	13.3						
VB350-022	24 VAC/VDC On/Off ACT W/ POSITIONER	*	13.3						
VB350-023	115/240 VAC On/Off ACT W/ POSITIONER	*	13.3						

* Call for current List Price.

COMMERCIAL TRUE UNION BALL VALVE WITH PTFE SEATS

				Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
 1/2" - 235 psi 2-1/2" - 150 psi • Full-Port, Schedule 80 1/2 - 2-1/2" (exception 1-1/4" standard port) • PTFE Seats • Pressure rating per ASTM F-1970 • Schedule 80 Sockets and NPT Threads • Blocked Carrier • Replaceable Handle • Smooth Turning • Adjustable Seat • Certified to NSF/ANSI 61 and 372. Note: 3/8" and 1/2" sizes are available (1/2" valves pre-assembled with reducer bushings). Contact Customer Service for part number and pricing. See page 22 for details on O-Ring and Seat Materials				PVC w/EPDM O-Rings: Pricing Schedule VA Socket & Threaded End Connectors				CPVC w/EPDM O-RINGS: Pricing Schedule VA Socket & Threaded End Connectors			
				V07050N	1/2	48	\$38.64	V27053N	2-1/2	4	\$631.57
				V08050N	3/4	36	49.59				
				V10050N	1	24	65.38				
				V14050N	1-1/4	24	99.67				
				V17050N	1-1/2	24	133.19				
				V20050N	2	6	175.99				
				V27050N	2-1/2	4	314.11				
				Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
				PVC w/FKM O-RINGS: Pricing Schedule VA Socket & Threaded End Connectors				CPVC w/FKM O-RINGS: Pricing Schedule VA Socket & Threaded End Connectors			
				V27052N	2-1/2	4	\$449.91	V27054N	2-1/2	4	\$666.36
				For 3 & 4" Full Port, Sch 80 TUBVs, see page 4				COML TUBV Series Replacement Handles: Pricing Schedule VB			
				For 3 & 4" Standard Port PVC TUBVs, See the 801 Series on Page 10				V07050K	1/2	1	\$4.97
								V08050K	3/4	1	6.40
								V10050K	1	1	7.83
								V14050K	1-1/4	1	12.10
								V17050K	1-1/2	1	12.80
								V20050K	2	1	17.07
								V27050K	2-1/2	1	21.33
								V30050K	3	1	22.42
								V40050K	4	1	28.81

Pressure ratings are for non-shock water at 73°F.

801 SERIES TRUE UNION BALL VALVE



- Max Pressure 150 psi
- Designed for swimming pool, greenhouse, pond, commercial or AG-irrigation, and other water applications.
- PE seat
- Blocked Carrier
- Standard Port
- Not for use in heavy industrial or concentrated chemical applications. (For these applications, see Industrial TUBV, page 4)
- Not for use in golf or other heavy-turf irrigation systems

Part No.	Size	Ctn. Qty.	%Change	List
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PVC with EPDM O-Rings and TPE Seats.
Blue ABS Handle: Pricing Schedule VA
Socket & Threaded End Connectors

V17801N	1-1/2	24	10%	\$113.63
V20801N	2	12	10%	150.42
V27801N	2-1/2	6	10%	267.29

Soc x Soc

V30801N	3	4	10%	\$454.51
V40801N	4	1	10%	784.13

Threaded

V30811N	3	4	10%	\$454.51
V40811N	4	1	10%	784.13

Part No.	Size	Ctn. Qty.	%Change	List	Fits
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EPDM O-Rings Kit for MKIII Series 801N and
131W Ball Valve: Pricing Schedule VB

V10131NR	1	1	10%	\$9.01	V10131W
V17801NR	1-1/2	1	10%	11.01	V17131W, V17801N
V20801NR	2	1	10%	12.69	V20131W, V20801N
V27801NR	2-1/2	1	10%	15.80	V27801N
V30801NR	3	1	10%	21.43	V30801N, V30811N
V40801NR	4	1	10%	28.77	V40801N, V40811N

Part No.	Size	Ctn. Qty.	%Change	List
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801N Series Replacement Handles:
Pricing Schedule VB

V17801K	1-1/2	1	10%	\$16.69
V20801K	2	1	10%	20.84
V27801K	2-1/2	1	10%	31.30
V30801K	3	1	10%	41.70
V40801K	4	1	10%	58.40

801N Series Replacement End Connectors:
Socket End Pc

V17801Z3	1-1/2	1	10%	\$18.78
V20801Z3	2	1	10%	22.52
V27801Z3	2-1/2	1	10%	26.29
V30801Z3	3	1	10%	28.14
V40801Z3	4	1	10%	37.53

FIPT End Pc

V17811Z3	1-1/2	1	10%	\$18.78
V20811Z3	2	1	10%	22.52
V27811Z3	2-1/2	1	10%	26.29
V30811Z3	3	1	10%	28.14
V40811Z3	4	1	10%	37.53

WHITE PVC SINGLE UNION BALL VALVES

- PVC/EPDM
- Pressure Rating: 150 psi
- Economically priced for Irrigation, Water Treatment, Pool / Spa, and Commercial Plumbing applications.
- Blocked Carrier
- Standard Port



Part No.	Size	Ctn. Qty.	%Change	List
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Pricing Schedule VA
Socket

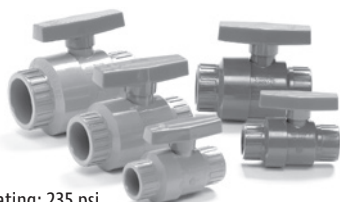
V10131W	1	50	10%	\$43.90
V17131W	1-1/2	30	10%	60.08
V20131W	2	20	10%	80.88

Part No.	Size	Ctn. Qty.	%Change	List
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Replacement Handles: Pricing Schedule VB

V10801K	1	1	10%	\$12.20
V17801K	1-1/2	1	10%	16.69
V20801K	2	1	10%	20.84

SUPER "C"™ INDUSTRIAL COMPACT BALL VALVE WITH TEFLON® SEATS



- Pressure Rating: 235 psi
- Smooth Turning, Industrial Strength Compact Valve.
- Permanently Sealed Maintenance Free.
- Assembled with water soluble, silicone-free o-ring lubricant.
- Replaceable Handles available.
- 1/2" - 1-1/2" are Full Port Sch 80. 2" has standard port. All have Sch 80 sockets or NPT Threads.
- Pressure Rating per ASTM F-1970
- **Certified to NSF/ANSI 61 and 372**



Part No.	Size	Ctn. Qty.	%Change	List
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PVC w/EPDM O-RINGS: Pricing Schedule VA
Socket

V07191N	1/2	24		\$31.43
V08191N	3/4	24		39.03
V10191N	1	24		46.54
V14191N	1-1/4	12		67.70
V17191N	1-1/2	12		86.46
V20191N	2	12		116.57

Threaded

V07201N	1/2	24		\$31.43
V08201N	3/4	24		39.03
V10201N	1	24		46.54
V14201N*	1-1/4	12		67.70
V17201N	1-1/2	12		86.46
V20201N	2	12		116.57

Part No.	Size	Ctn. Qty.	%Change	List
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CPVC w/FKM O-RINGS: Pricing Schedule VA
Socket

V07194N	1/2	24		\$45.63
V08194N	3/4	24		60.87
V10194N	1	24		76.11
V14194N	1-1/4	12		126.26
V17194N	1-1/2	12		155.84
V20194N	2	12		202.98

Threaded

V07204N	1/2	24		\$45.63
V08204N	3/4	24		60.87
V10204N*	1	24		76.11
V14204N*	1-1/4	24		126.26
V17204N*	1-1/2	24		155.84
V20204N*	2	24		202.98

*Special Order Call for MOQ and Lead Time.

TWO-PIECE INDUSTRIAL COMPACT BALL VALVE WITH TEFLON® SEATS

- Pressure Rating: 150 psi
- Low torque, smooth turning compact valves.
- Sch 80 Sockets
- Standard Port

Part No.	Size	Ctn. Qty.	%Change	List
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PVC w/EPDM O-RINGS: Pricing Schedule VA
Socket

V27191N	2-1/2	12		\$201.50
V30191N	3	8		412.27
V40191N	4	2		618.39



LABORATORY BALL VALVE

- Pressure Rating: 150 psi

Part No.	Size	Ctn. Qty.	%Change	List
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PVC/FKM: Pricing Schedule VA

V03512N	1/4 FPTxFPT	24		\$30.10
V03522N	1/4 FPTxMPT	24		30.10
V03532N	1/4 MPTxMPT	24		30.10
V03542N	1/4 HBxMPT	24		30.10
V03552N	1/4 FPTxHB	24		30.10



Pressure ratings are for non-shock water at 73°F.

CPVC CTS BALL VALVE SxS

- Molded from ASTM D1784, Cell Class 23447 virgin CPVC resin. Suitable for hot or cold water systems.
- Conforms to ASTM D2846 for dimensions of socket and wall thickness.
- Pressure rated up to 100 psi @ 180° F, 150 psi @ 73° F, non-shock water.
- 100% Leak-tested
- Bi-directional, can be installed in either direction
- Sizes 1/2 - 1" are full port; sizes 1-1/4 - 2" are standard port
- Certified to NSF/ANSI 61 and 372.



Part No.	Size	Ctn. Qty.	%Change	List
CPVC w/EPDM O-RINGS: Pricing Schedule VT				
Socket				
V07491CE	1/2	100	20%	\$18.03
V08491CE	3/4	100	20%	22.09
V10491CE	1	100	20%	31.98
V14491CE	1-1/4	60	20%	43.60
V17491CE	1-1/2	48	20%	55.24
V20491CE	2	24	5%	68.29

INDUSTRIAL SCH 80 MIP COMPACT VALVE



- Sch 80 Sockets
- Standard Port
- Pressure Rating 150 psi
- Individually Boxed
- Certified to NSF/ANSI 61 and 372.
- PTFE Seats and FPM/FKM O-Rings* for Higher Corrosion Resistance and Longer Service Life
- Replaceable Handle
- 100% Leak Tested
- Gray PVC and Light Gray CPVC

Part No.	Size	Ctn. Qty.	%Change	List
Gray PVC FKM O-Rings, PTFE Seat, Socket Pricing Schedule VM				
V07692N	1/2	100	10%	\$30.52
V08692N	3/4	100	10%	40.21
Gray PVC FKM O-Rings, PTFE Seat, Threaded Pricing Schedule VM				
V07792N	1/2	100	10%	\$30.52
V08792N	3/4	100	10%	\$40.21

Note: Sizes above 3/4" have been discontinued in this series.

Part No.	Size	Ctn. Qty.	%Change	List
Light Gray CPVC FKM O-Rings, PTFE Seat, Socket: Pricing Schedule VM				
V07694N	1/2	100	10%	\$55.16
V08694N	3/4	100	10%	\$67.13
Light Gray CPVC FKM O-Rings, PTFE Seat, Threaded: Pricing Schedule VM				
V07794N	1/2	100	10%	\$55.16
V08794N	3/4	100	10%	67.13

491 SERIES COMMERCIAL SCH 80 GRAY AND WHITE MIP (MOLDED-IN-PLACE) BALL VALVE

- Sch 80 Sockets
- Standard Port
- Pressure Rating: 150 psi
- Individually Boxed
- Replaceable Handle**
- 100% Leak-Tested
- Certified to NSF/ANSI 61 and 372.
- Blue Handle (as of December 2014)
- Rigid PVC Ball and Stem for Longer Service Life



See page 22 for details on O-Ring and Seat Materials

Part No.	Size	Ctn. Qty.	%Change	List
GRAY PVC w/EPDM: Pricing Schedule VM				
Socket				
V07691N	1/2	100	15%	\$12.28
V08691N	3/4	100	15%	15.26
V10691N	1	60	15%	21.60
V14691N	1-1/4	45	15%	34.92
V17691N	1-1/2	24	15%	62.84
V20691N	2	24	15%	74.48
White PVC w/EPDM: Pricing Schedule VM				
Socket				
V07491N	1/2	100	15%	12.28
V08491N	3/4	100	15%	15.26
V10491N	1	60	15%	21.60
V14491N	1-1/4	45	15%	34.92
V17491N	1-1/2	24	15%	62.84
V20491N	2	24	15%	74.48
V27491N	2-1/2	12	5%	131.79
V30491N	3	6	5%	217.28
V40491N	4	3	5%	418.62

Part No.	Size	Ctn. Qty.	%Change	List
GRAY PVC w/EPDM: Pricing Schedule VM				
Threaded				
V07791N	1/2	100	15%	\$12.28
V08791N	3/4	100	15%	15.26
V10791N	1	60	15%	21.60
V14791N	1-1/4	45	15%	34.92
V17791N	1-1/2	24	15%	62.84
V20791N	2	24	15%	74.48
White PVC w/EPDM: Pricing Schedule VM				
Threaded				
V07591N	1/2	100	15%	\$12.28
V08591N	3/4	100	15%	15.26
V10591N	1	60	15%	21.60
V14591N	1-1/4	45	15%	34.92
V17591N	1-1/2	24	15%	62.84
V20591N	2	24	15%	74.48
V27591N	2-1/2	12	5%	131.79
V30591N	3	6	5%	217.28
V40591N	4	3	5%	418.62

REPLACEMENT HANDLE FOR COMMERCIAL AND INDUSTRIAL MIP VALVE

Fits Industrial and Commercial MIP Valves.

Note: System must be de-pressurized prior to replacing handle. Each kit includes handle and replacement screw.



Part No.	Size	Ctn. Qty.	%Change	List
Pricing Schedule VB				
V07491K	1/2	1	15%	\$1.88
V08491K	3/4	1	15%	2.15
V10491K	1	1	15%	2.59
V14491K	1-1/4	1	15%	3.29
V17491K	1-1/2	1	15%	7.05

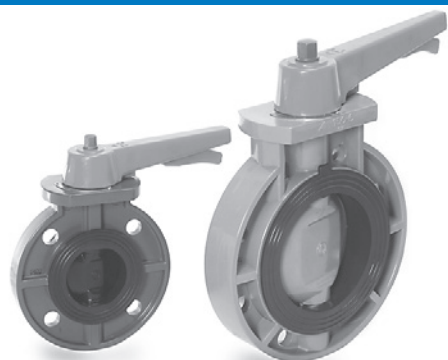
Part No.	Size	Ctn. Qty.	%Change	List
Pricing Schedule VB				
V20491K	2	1	15%	\$9.40
V27491K	2-1/2	1	5%	9.96
V30491K	3	1	5%	15.93
V40491K	4	1	5%	23.92

461 SERIES SCH 40 MIP BALL VALVE

NOTE: 461 Series Sch 40 MIP Ball Valves are now available exclusively through Westlake Pipe & Fittings (LASCO).

Pressure ratings are for non-shock water at 73°F.

411N INDUSTRIAL SERIES BUTTERFLY VALVE WITH LOCKING PP LEVER HANDLE



- Full Boot Seal design. Requires no flange gaskets. ANSI Class 150 flange bolt pattern. Wafer Type.
- Pressure Rating: 150 psi
- ANSI class 150 Bolt Pattern
- 410 Stainless Steel Stem
- Handle Includes Lockout Hole
- 411N BFV is direct retrofit for ©ASAHI type 56/57 and Pool Pro BFV (Same Face to Face DIM)
- Butterfly Valve Flange Bolt Sets and Contractor Kits - Page 17.

411N Series also available in PP and PVDF. Please call customer service for price and availability.

If used in an HDPE piping system, flange spacers and/or chamfered flange adapters may be required. Please contact your HDPE fittings distributor.

©ASAHI/America, 35 Green St., Malden, MA 02148

See page 22 for details on O-Ring and Seat Materials

Part No.	Size	Ctn. Qty.	%Change	List
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PVC/EPDM with PP Disc: Pricing Schedule VC

V20411N	2	4	5%	\$399.73
V27411N	2-1/2	4	5%	423.69
V30411N	3	4	5%	430.34
V40411N	4	4	5%	498.84
V50411N	5	4	5%	706.40
V60411N	6	2	5%	738.03
V80411N	8	1	5%	1,254.63

Part No.	Size	Ctn. Qty.	%Change	List
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PVC/FKM with PP Disc: Pricing Schedule VC

V20412N	2	4	5%	\$992.76
V27412N	2-1/2	4	5%	1,028.21
V30412N	3	4	5%	1,045.96
V40412N	4	4	5%	1,294.12
V60412N	6	2	5%	1,932.34
V80412N	8	1	5%	3,368.27

PVC/BUNA with PP Disc: Pricing Schedule VC

V20415N	2	4	5%	\$399.73
V30415N	3	4	5%	430.34
V40415N	4	4	5%	498.84
V60415N	6	2	5%	738.03
V80415N	8	1	5%	1254.63

CPVC/EPDM with CPVC Disc: Pricing Schedule VC

V20413N	2	4	5%	\$682.52
V27413N	2-1/2	4	5%	744.57
V30413N	3	4	5%	797.75
V40413N	4	4	5%	921.86
V60413N	6	2	5%	1,276.41
V80413N	8	1	5%	2,215.98

CPVC/FKM with CPVC Disc: Pricing Schedule VC

V20414N	2	4	5%	\$1,373.93
V27414N	2-1/2	4	5%	1,489.16
V30414N	3	4	5%	1,560.04
V40414N	4	4	5%	2,003.24
V60414N	6	2	5%	3,155.54
V80414N	8	1	5%	5,318.33

411N SERIES BUTTERFLY VALVE REPLACEMENT HANDLE



Part No.	Size	Ctn. Qty.	%Change	List
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Pricing: Schedule VB

V30411K	2	1	5%	\$72.66
V30411K	2-1/2	1	5%	72.66
V30411K	3	1	5%	72.66
V40411K	4	1	5%	83.59
V80411K	6 and 8	1	5%	211.02



411 Series BFVs in Equipment Room

Pressure ratings are for non-shock water at 73°F.

411NG SERIES BUTTERFLY VALVE WITH GEAR OPERATOR: 2 - 16"



2 - 16" Diameter

- Pressure Rating: 150 psi 8, 10"
100 psi 12"
86 psi, 14-16"
- Full Boot Seal design. Requires no flange gaskets. ANSI Class 150 flange bolt pattern. Wafer Type.
- 410 Stainless Steel Stem.
- Standard Gear Operator is cast iron with corrosion-resistant paint and SS fasteners.
- Not submersible.
- Stem Extensions and Chain wheel available – See page 14 for detail.

Note: For 2-1/2" piping, use 3" BFV and Flanges with 3 x 2-1/2 Bushings (LASCO P/N 837339)

Stem extensions available for 411NG series BFV, see page 16

Part No.	Size	Ctn. Qty.	%Change	List
PVC/EPDM with PP Disc: Pricing Schedule VC				
V20411NG	2	1	5%	\$1,302.98
V30411NG	3	1	5%	1,356.17
V40411NG	4	1	5%	1,444.81
V60411NG	6	1	5%	1,728.46
V80411NG	8	1	5%	1,881.44
V100411NG	10	1	5%	2,613.07
V120411NG	12	1	5%	3,681.79
V140411NG	14	1	5%	7,295.69
V160411NG	16	1	5%	10,837.15

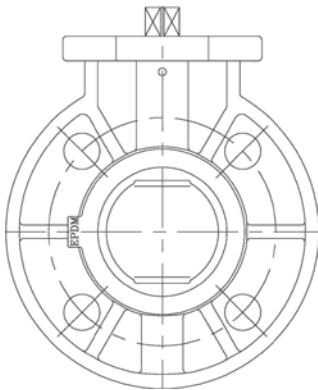
Part No.	Size	Ctn. Qty.	%Change	List
CPVC/EPDM with CPVC Disc: Pricing Schedule VC				
V20413NG	2	1	5%	\$1,639.81
V30413NG	3	1	5%	1,728.46
V40413NG	4	1	5%	1,817.12
V60413NG	6	1	5%	2,269.17
V80413NG	8	1	5%	2,925.07
V100413NG	10	1	5%	4,343.33
V120413NG	12	1	5%	6,027.47
V140413NG	14	1		*
V160413NG	16	1		*

Note: 8 - 12" PVC/EPDM type are stocked items. Call for lead-time on 14 & 16" PVC/EPDM, and 8 - 12" PVC/FKM, CPVC/EPDM, and CPVC/FKM type

Part No.	Size	Ctn. Qty.	%Change	List
PVC/FKM with PP Disc: Pricing Schedule VC				
V20412NG	2	1	5%	\$1,710.74
V30412NG	3	1	5%	1,755.05
V40412NG	4	1	5%	1,994.39
V60412NG	6	1	5%	2,570.54
V80412NG	8	1	5%	3,900.12
V100412NG	10	1	5%	6,366.06
V120412NG	12	1	5%	8,332.07
V140412NG	14	1		*
V160412NG	16	1		*

Part No.	Size	Ctn. Qty.	%Change	List
CPVC/FKM with CPVC Disc: Pricing Schedule VC				
V20414NG	2	1	5%	\$2,251.43
V30414NG	3	1	5%	2,481.87
V40414NG	4	1	5%	2,836.45
V60414NG	6	1	5%	3,988.75
V80414NG	8	1	5%	5,938.83
V100414NG	10	1	5%	10,282.11
V120414NG	12	1	5%	13,827.68
V140414NG	14	1		*
V160414NG	16	1		*

411ND SERIES BUTTERFLY VALVE



Direct-mount ready Butterfly Valves with ISO 5211 mounting pattern.

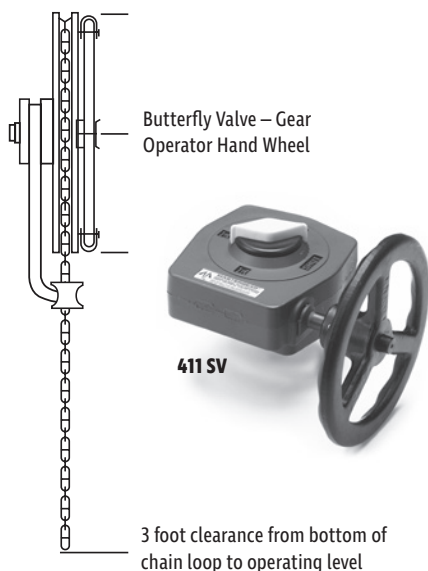
- Full Boot Seal design. Requires no flange gaskets. ANSI Class 150 flange bolt pattern. Wafer Type.
- 410 Stainless Steel Stem.
- Suitable for all 150 5211 compliant gear operators or actuators.

Option for 2-1/2" piping, use 3" BFV, 3" Flanges, and 3 x 2-1/2" Bushings.

Part No.	Size	ISO Pattern	Sq. Stem (mm on flats)	Opening Torque (in. lbs.)	Qty.	% Change	List
PVC/EPDM: Pricing Schedule VC							
V20411ND	2	F05 & F07	11	113	1	5%	\$400.64
V30411ND	3	F05 & F07	14	260	1	5%	430.01
V40411ND	4	F07 & F10	14	391	1	5%	490.35
V60411ND	6	F07 & F10	17	738	1	5%	726.09
V80411ND	8	F10	22	1302	1	5%	1,165.51
V100411ND	10	F10	22	2604	1	5%	1,985.39
V120411ND	12	F12	27	3906	1	5%	2,785.88
CPVC/EPDM with CPVC Disc: Pricing Schedule VC							
V20413ND	2	F05 & F07	11	113	1	5%	\$655.93
V30413ND	3	F05 & F07	14	260	1	5%	735.71
V40413ND	4	F07 & F10	14	391	1	5%	842.08
V60413ND	6	F07 & F10	17	738	1	5%	1,267.55
V80413ND	8	F10	22	1302	1	5%	2,437.59
PVC/FKM: Pricing Schedule VC							
V20412ND	2	F05 & F07	11	113	1	5%	\$1,010.49
V30412ND	3	F05 & F07	14	260	1	5%	1,063.67
V40412ND	4	F07 & F10	14	391	1	5%	1,329.59
V60412ND	6	F07 & F10	17	738	1	5%	1,950.06
V80412ND	8	F10	22	1302	1	5%	2,481.87
CPVC/FKM with CPVC Disc: Pricing Schedule VC							
V20414ND	2	F05 & F07	11	113	1	5%	\$1,497.99
V30414ND	3	F05 & F07	14	260	1	5%	1,586.63
V40414ND	4	F07 & F10	14	391	1	5%	2,127.34
V60414ND	6	F07 & F10	17	738	1	5%	3,191.01

Pressure ratings are for non-shock water at 73°F.
Butterfly Valve Flange Bolt Kits - Page 17

GEAR OPERATORS FOR V40411ND (DIRECT MOUNT) BUTTERFLY VALVES



Aluminum Gear Operator

Corrosion-resistant Aluminum Alloy housing with handwheel. Weight: 4 lbs. Not submersible. Pricing Schedule VB

Part Number	ISO Mounting	Ctn Qty	% Change	List Price	Note
232-08	F07 & F10	1	20%	\$895.26	Fits ND BFV 2 - 8"
PS160	6" Diam Handwheel	1	20%	101.09	

Stem coupling included: Please specify the required stem coupling size (Square 11mm, 14mm, or 17mm) when ordering

Chain Wheel Kits

Valves aren't always situated in easy to access locations. Often, gaining access to open or close a valve necessitates dangerous climbing or maneuvering. A Chain Wheel can be installed in minutes and provides an easy, inexpensive way to ensure employee safety and effective valve operation. Opening and closing valves becomes as easy as standing at ground level and simply pulling the chain to operate the chain wheel above.

- Chain sprocket is sized to clamp on the hand-wheel for safe, effective manual valve operation.
- All kits come complete with sprocket wheel, chain guide, set collar, 20' of chain (10' loop), and retaining-cable safety kit.
- Chain material Stainless Steel.
- Bracket and sprocket material: Aluminum.

Pricing Schedule VB

Part Number	ISO Mounting	Handwheel Diameter	Ctn Qty	% Change	List Price
CL75AL	NG BFVs 2 - 6"	6.00"	1	20%	\$1,783.28
CL9AL	NG BFVs 8 & 10"	7.88"	1	20%	2,014.75
CL12AL	NG BFVs 12 - 16"	9.90"	1	20%	2,349.11

411SV BUTTERFLY SHUT-OFF VALVE FOR COMMERCIAL POOL / AQUATIC SURGE TANKS / PONDS

- Shut-off valve for gravity-flow pipe that drains into surge tank.
- Submersible.
- Full boot seal for durable performance. No gaskets required.
- ANSI B16.5 Class 150 Flange Pattern. Wafer Type.
- Stainless Steel 2" Operating nut is retained by rails, which also stop rotation in the full-open or full-closed position, (with no locking positions between).
- Designed to be operated with a 2" square valve key. (Colonial Part No V417681 or V417681S 2" Square Valve Key KIT is sold separately), or deck socket stem extension kit.
- This valve is designed to be used in the full-open or full-closed position on a drain pipe, so the maximum recommended operating pressure is 20 psi.

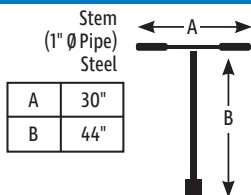


Part No.	Size	Ctn. Qty.	%Change	List
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PVC w/EPDM O-Rings S x S: Pricing Schedule VC

V40411SV	4	1	5%	\$1,675.73
V60411SV	6	1	5%	1,844.13
V80411SV	8	1	5%	2,083.24

2" SQUARE VALVE KEY KIT - FOR USE WITH 411SV VALVES



Includes 44" stem welded to a 2" Square head, and separate handle. Customer can weld additional 1" Sch 40 pipe (not included) as needed for the required length. NOTE: customer must bevel the end of pipe to allow for proper weld-bead.

NOTE: Requires assembly (welding) by customer at jobsite

Part No.	Material	Ctn. Qty.	%Change	List
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Carbon Steel: Pricing Schedule VB

V417681	Carbon Steel	1		\$234.08
V417681S	304 Stainless Steel	1		649.78

411NL & 411NGL SERIES LUG TYPE BUTTERFLY VALVE 3 - 12"

Pressure rating if installed in-line, 150 psi 3 - 10", 100 psi 12"

Pressure rating if installed as "Dead-End" or "End-of-line" Service, (No down-stream piping, and disc in closed position): 3 - 12", 75 PSI



- Ideal for On/Off service or for Throttling
- Full boot seal for durable performance
- No flange gaskets are required
- ANSI B16.5 Class 150 Flange Pattern

Lug type available in PVC/EPDM with 304SS Lug Inserts. Install between two flanges using a separate set of bolts & washers for each flange. This setup permits either side of the piping system to be disconnected without disturbing the other side.

Part No.	Size	Ctn. Qty.	%Change	List	Part No.	Size	Ctn. Qty.	%Change	List
PVC/EPDM with PP Disc: Pricing Schedule VC					Bolt Sets for LUG-TYPE Butterfly Valves:				
With Locking Lever Handle					Includes a Bolt and washer for each lug position, for both sides of the valve. 316 SS Pricing Schedule VB				
V30411NL	3	1	5%	\$570.53	V30LBFS	3	1 Set	5%	\$39.79
V40411NL	4	1	5%	1,086.32	V40LBFS	4	1 Set	5%	149.68
V60411NL	6	1	5%	1,288.42	V60LBFS	6	1 Set	5%	226.32
V80411NL	8	1	5%	1,533.68	V80LBFS	8	1 Set	5%	244.42
With Cast Iron Gear Operator					V100LBFS	10	1 Set	5%	591.58
V100411NGL	10	1	5%	\$3,669.47	V120LBFS	12	1 Set	5%	657.89
V120411NGL	12	1	5%	4,478.95					

Pressure ratings are for non-shock water at 73°F.

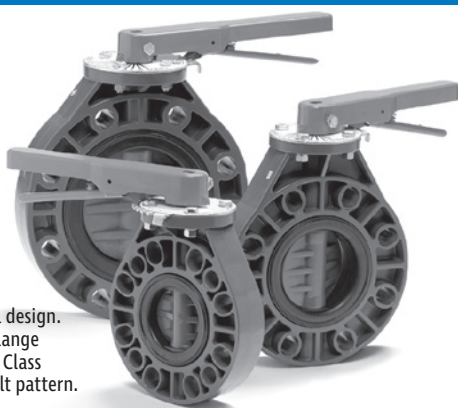
Butterfly Valve Flange Bolt Kits - Page 17

311N SERIES BUTTERFLY VALVE WITH STEEL LEVER HANDLE: 3, 4, AND 6"

- Full Boot Seal design. Requires no flange gaskets. ANSI Class 150 flange bolt pattern. Wafer Type.
- Pressure Rating: 150 psi
- ANSI Class 150 Bolt Pattern
- 410 SS Stem
- **Takeout dimension equal to Bray & many other Cast Iron BFVs**

If used in an HDPE piping system, flange spacers and/or chamfered flange adapters may be required. Please contact your HDPE fittings distributor.

Actuation of 311N series is available using custom mounting kit. Call for pricing



Part No.	Size	Ctn. Qty.	% Change	List
PVC: Pricing Schedule VC				
V30311N	3	4	5%	\$451.13
V40311N	4	4	5%	\$29.35
V60311N	6	4	5%	\$760.88

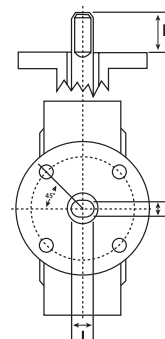
Part No.	Size	Ctn. Qty.	% Change	List
REPLACEMENT HANDLE Pricing Schedule VB				
V30311K	3	1	5%	\$70.75
V40311K	4	1	5%	\$70.75
V60311K	6	1	5%	\$82.99

DIMENSIONS FOR TOP PLATE

Size	L	J	K	Bolt Plate Circle (PCD)	No. of Holes	Hole Diam.
3"	1-1/4	9/16	3/8	3-1/4	4	7/16
4"	1-1/4	5/8	7/16	3-1/4	4	7/16
6"	1-1/4	5/8	7/16	3-1/4	4	7/16

Stem extensions available. See page 16.

PVC Body, EPDM Boot; PVC Disc, Stainless Steel Stem, Metal Coated Handle, PP Bearings, EPDM O-Rings, Keystone Fig. 100 top dimensions with double-D stem.



BUTTERFLY VALVES

711N SERIES COMMERCIAL BUTTERFLY VALVE WITH BLUE HANDLE



Part No.	Size	Ctn. Qty.	% Change	List
PVC / EPDM, 316 SS Stem, Blue PVC Lever Handle: Pricing Schedule VC				
V20711N	2	6	10%	\$311.26
V30711N	3	4	10%	\$352.22
V40711N	4	4	10%	\$408.99
V60711N	6	2	10%	\$605.46
V80711N	8	2	10%	\$1,029.01

- Full boot EPDM seal, requires no gaskets
- Lightweight, corrosion-resistant PVC construction
- Six position Index plate
- 316 Stainless Steel non-wetted stem
- Pressure rating: 150 psi 2 - 6", 135 psi 8"
- Commercial Pool, Industrial, Ag-Irrigation
- Available in Kits

If used in an HDPE piping system, flange spacers and/or chamfered flange adapters may be required. Please contact your HDPE fittings distributor.

REPLACEMENT HANDLES FOR 711N SERIES BUTTERFLY VALVES

Over the past year, there was a slight design-change for the 3", 4", and 6" 711 Series Butterfly Valves. This involved a change in the stem dimensions, so that if you remove the handle and top plate, you will have an ISO compliant mount for a Gear Operator or Actuator. On the new type, the Cap on the handle says "Colonial II".

Since the dimensions of the stem changed, so did the area of the handle that mates with the stem. So there are now two part-number options for replacement handles:

Part No.	Description	Ctn. Qty.	% Change	List
Pricing Schedule VB				
V40711K	Replacement handle. Fits original type 3 & 4" 711N valve. Dark blue in color. 13.3 mm square stem port.	1	10%	\$67.56
V40711K2	Replacement handle. Fits "Colonial II" type 3 & 4" 711N valve. Light blue in color. 14mm square stem port.	1	10%	\$7.56
V80711K	Replacement handle. Fits original type 6 & 8" 711N valve. Dark blue in color. 17.8 mm square stem port.	1	10%	\$86.31
V80711K2	Replacement handle. Fits "Colonial II" type 6 & 8" 711N valve. Light blue in color. 17mm square stem port.	1	10%	\$86.31

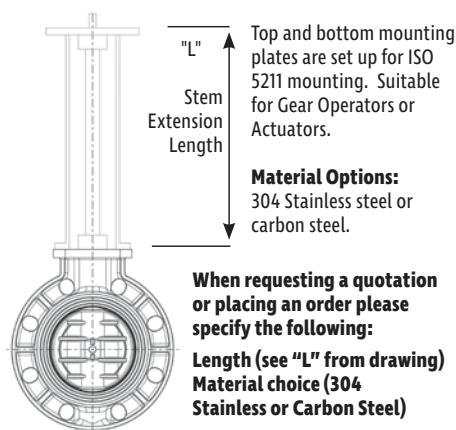


Stem Square Port



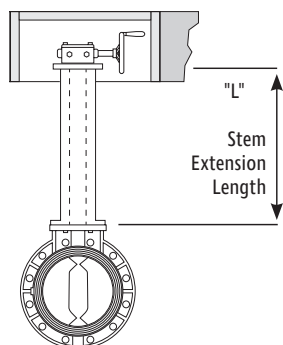
Pressure ratings are for non-shock water at 73°F.
Butterfly Valve Flange Bolt Kits - Page 17

STEM EXTENSION OPTIONS FOR BUTTERFLY VALVES

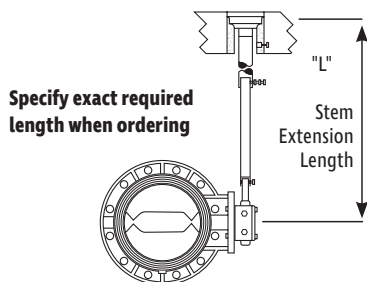


Stem extension for gear op or actuator mounting - stem extension will be priced based on materials & length. Note part numbers below for use with either 411ND or 411NG butterfly valve

FITS BFV SIZES	2 - 4"	6 - 10"	12"
USED WITH COLONIAL 411ND BARE-TOP SERIES ISO 5211 BFV			
Length (in)	Part No.	Part No.	Part No.
6-12	V411N01	V411N01A	V411N01B
12-24	V411N02	V411N02A	V411N02B
25-48	V411N03	V411N03A	V411N03B
49-84	V411N04	V411N04A	V411N04B
85-108	V411N05	V411N05A	V411N05B
ISO 5211 Direct Mount BFVs	F07 Mounting BCD (70mm, 2.76") 4 holes 9mm diam	F10 Mounting BCD (102mm, 4.01") 4 holes 11mm diam	F12 Mounting BCD (125mm, 4.92") 4 holes 13mm diam
Top of Extension Stem-Square Options	11 - 14 mm	17 - 22 mm	27 mm
Flange O.D. at Top of Stem Extension	3.5"	5"	5.75"

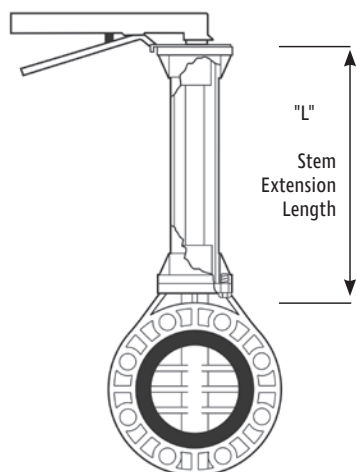


USED WITH COLONIAL 411NG SERIES BFV WITH GEAR OPERATOR			
Length (in)	Part No.	Part No.	Part No.
6-12	V411NG01	V411NG01A	V411NG01B
12-24	V411NG02	V411NG02A	V411NG02B
25-48	V411NG03	V411NG03A	V411NG03B
49-84	V411NG04	V411NG04A	V411NG04B
85-108	V411NG05	V411NG05A	V411NG05B
	F07 Mounting BCD (70mm, 2.76") 4 holes 9mm diam	BCD (90mm, 3.543") 4 holes 10mm diam	BCD (127mm, 5.00") 4 holes 14mm diam
Stem Details	Square (11mm width, 12mm height)	Keyed (25mm diam, 54mm height)	Keyed (31.75mm diam, 60mm height)
Flange O.D. at Top of Stem Extension	3.5"	5"	5.75"



USED WITH COLONIAL 411NG SERIES BFV, SIDE-MOUNTED TYPE EXTENSION WITH DECK-SOCKET			
Length (in)	Part No.	Part No.	Part No.
6-12	V411NGS01	V411NGS01A	V411NGS01B
12-24	V411NGS02	V411NGS02A	V411NGS02B
25-48	V411NGS03	V411NGS03A	V411NGS03B
49-84	V411NGS04	V411NGS04A	V411NGS04B
85-108	V411NGS05	V411NGS05A	V411NGS05B
Details:	Valve is mounted rotated at 45 degrees. Extension mounts to output shaft of Gear Operator. Top of extension will feature a 3/4" female square seated in a Deck Socket with Brass Threaded Cap. Full details available on submittal.		
Accessory:	Part Number V411NGSK: 24" drive wrench with 3/4" male square drive		

For use with 311N or 711N Lever-Handle BFVS steel lever handle and 316 SS Index Plate will be installed at top of extension



USED WITH 311N SERIES BFV			USED WITH COLONIAL 711N BFV		
Length (in)	Part No.	Part No.	Length (in)	Part No.	Part No.
6-12	V311N01	V311N01A	6-12	V711N01	V711N01A
12-24	V311N02	V311N02A	12-24	V711N02	V711N02A
25-48	V311N03	V311N03A	25-48	V711N03	V711N03A
49-84	V311N04	V311N04A	49-84	V711N04	V711N04A
85-108	V311N05	V311N05A	85-108	V711N05	V711N05A
Fits BFV Sizes	3 & 4"	6"	Fits BFV Sizes	3 & 4"	6 & 8"
BCD Top & Bottom of Extension	BCD (82.5 mm, 3.25") 4 holes 9mm diam		Top of Extension BCD	BCD (82.5 mm, 3.25") 4 holes 9mm diam	
Top of Extension Stem Details	Double D (.625"L, .438"W, 1.25"H)		Top of Extension Stem Details	Double D (.625"L, .438"W, 1.25"H)	
Bottom of Extension Stem Details (Top of BFV)	3" BFV Double D (.563" L, .375" W, 1.25" H)/4" BFV Double D (.625"L, .438"W, 1.25"H)	Double D (.625"L, .438"W, 1.25"H)	Bottom of Extension BCD	F07 Mounting BCD	F10 Mounting BCD
			Bottom of Extension Stem Details (Top of BFV)	14mm Square W x 17 mm H	17mm Square W x 31 mm H

Pressure ratings are for non-shock water at 73°F.
Butterfly Valve Flange Bolt Kits - Page 17

NEW FLANGE GASKET BOLT SET KITS

Kit including single flange, gasket & bolt set

- Each Kit includes one PVC Vanstone Flange, one EPDM Gasket, and a 316 SS Bolt Set.
- Packaged in a corrugated box. Used to connect pipe or fittings to the flanged inlet or outlet of a pump or filter.

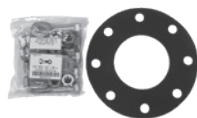


Part No.	Flange Size	List
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Pricing Schedule VK		
KIT301FBGS	3"	\$134.00
KIT401FBGS	4"	206.00
KIT601FBGS	6"	370.00
KIT801FBGS	8"	459.00
KIT1001FBGS	10"	819.00

Kit including bolt set and gasket for Flange X Flange connections

- Each Kit includes one Class 150 EPDM Gasket, and a 316 SS Bolt Set. Packaged in a corrugated box.



Part No.	For use with Flange Size	List
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Pricing Schedule VK		
KIT30BGS	3"	\$85.00
KIT40BGS	4"	145.00
KIT60BGS	6"	256.00
KIT80BGS	8"	281.00
KIT100BGS	10"	633.00
KIT120BGS	12"	652.00

BUTTERFLY VALVE BOLT SETS



Butterfly Valve Size 2" & 3"

4 5/8-11 x 5-1/2 Hex Bolts

4 5/8-11 Hex Nuts

8 5/8 Flat Washers

Butterfly Valve Size 4"

8 5/8-11 x 6 Hex Bolts

8 5/8-11 Hex Nuts

16 5/8 Flat Washers

Butterfly Valve Size 6"

8 3/4-10 x 7 Hex Bolts

8 3/4-10 Hex Nuts

16 3/4 Flat Washers

Butterfly Valve Size 8"

8 3/4-10 x 8 Hex Bolts

8 3/4-10 Hex Nuts

16 3/4 Flat Washers

Butterfly Valve Size 10"

12 7/8-9 x 9 Hex Bolts

12 7/8-9 Hex Nuts

24 7/8 Flat Washers

Butterfly Valve Size 12"

12 7/8-9 x 10 Hex Bolts

12 7/8-9 Hex Nuts

24 7/8 Flat Washers

Flange bolt sets sized to mate ANSI Class 150 flanges and Colonial Butterfly Valves.

- Offered in 304 SS, 316 SS, A307 Zinc Plated, and Galvanized Steel.
- Bolt kits do not include gaskets because Colonial butterfly valves do not require gaskets.
- Packed in corrugated cartons for ease of shipping/handling and organizing at the jobsite.

Lubricate Threads of Nuts and Bolts to prevent galling and increase fastener life:

For Stainless Steel, use Anti-Seize: Mill-Rose Blue Monster Nickel Anti-Seize, LOCTITE LB-771, Permatex 77134 or other Nickel-based Anti-Seize lubricants.

For Zinc-plated or Galvanized: Silicone or wax-based lubricants are suitable.

To use effectively, clean the threads thoroughly. Coat the threads of the male bolt lightly, making sure it works into the thread valleys. Leave the very first 1-2 threads of the bolt bare to help the nut thread on cleanly without cross-threading. Screw the nut on and off the bolt once. This helps the compound evenly coat the entire threaded area. When assembling, reduce your standard torque specs by approximately 20% to avoid over-tightening. Use a rag to wipe away any excess anti-seize that squeezes out when the fastener is assembled.

AVOID: Petroleum-based lubricants and standard penetrating oils, as they can degrade adjacent PVC and CPVC piping components.

Part No.	Valve Size	WGT. (lbs.)	% Change	List
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Pricing Schedule VB

Galvanized for BFV

V30BFBKZ	2 & 3"	2.75	15%	\$56.64
V40BFBKZ	4"	5.75	15%	116.74
V60BFBKZ	6"	9.30	15%	195.42
V80BFBKZ	8"	11.60	15%	204.54
V100BFBKZ	10"	25.31	15%	511.76
V120BFBKZ	12"	26.26	15%	549.21

A307 Zinc Plated for BFV

V30BFBKZ	2 & 3"	2.70	15%	\$41.40
V40BFBKZ	4"	5.30	15%	73.56
V60BFBKZ	6"	9.30	15%	142.54
V80BFBKZ	8"	10.55	15%	156.35
V100BFBKZ	10"	24.31	15%	365.56
V120BFBKZ	12"	25.50	15%	402.35

304 Stainless for BFV

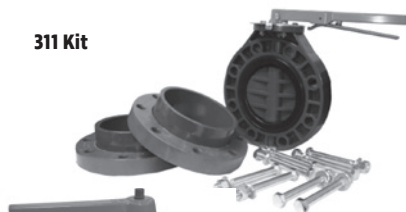
V30BFBKS	2 & 3"	2.70	5%	\$88.42
V40BFBKS	4"	5.70	5%	176.84
V60BFBKS	6"	9.25	5%	305.26
V80BFBKS	8"	10.40	5%	315.79
V100BFBKS	10"	25.20	5%	829.47
V120BFBKS	12"	27.26	5%	884.21

316 Stainless for BFV

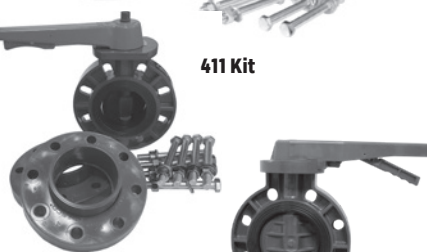
V30BFBKS316	2 & 3"	2.70		\$105.00
V40BFBKS316	4"	5.70		207.50
V60BFBKS316	6"	9.25		382.50
V80BFBKS316	8"	10.40		440.00
V100BFBKS316	10"	25.20		1,075.00
V120BFBKS316	12"	27.26		1,115.00

BUTTERFLY VALVE/FLANGE CONTRACTOR KIT

311 Kit



411 Kit



711 Kit



Contractor Kit — Includes PVC Butterfly Valve, Two Lasco PVC Van-stone Flanges, and Bolt set. All packed in one heavy-duty corrugated carton for delivery to jobsite. One convenient part number ensures that all materials will be delivered. See the chart to determine the part number by choosing the size and series of the Butterfly valve, and the material of the bolt kit.

- PVC Butterfly Valve
- Two Lasco PVC Van Stone Flanges
- Bolt Set

Part No.	Size	BFV Series	Bolt Set Type	% Change	List
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Kit to Include 411N Series PVC/EPDM BFV With Molded Polypro Lever Handle

Pricing Schedule VK

KIT20411G	2	411	Galvanized	5%	\$510.53
KIT20411Z	2	411	Zinc	5%	495.25
KIT20411S	2	411	Stainless	5%	553.35

KIT27411G	2-1/2	411	Galvanized	5%	\$580.91
KIT27411Z	2-1/2	411	Zinc	5%	565.91
KIT27411S	2-1/2	411	Stainless	5%	628.35

KIT30411G	3	411	Galvanized	5%	\$566.87
KIT30411Z	3	411	Zinc	5%	551.56
KIT30411S	3	411	Stainless	5%	609.72

KIT40411G	4	411	Galvanized	5%	\$718.64
KIT40411Z	4	411	Zinc	5%	671.37
KIT40411S	4	411	Stainless	5%	822.43

KIT60411G	6	411	Galvanized	5%	\$1,096.67
KIT60411Z	6	411	Zinc	5%	1,058.35
KIT60411S	6	411	Stainless	5%	1,345.63

KIT80411G	8	411	Galvanized	5%	\$1,670.33
KIT80411Z	8	411	Zinc	5%	1,641.38
KIT80411S	8	411	Stainless	5%	2,089.43

See complete kit description at left.

NOTE: Stainless Steel bolt threads and nut threads must be lubricated prior to installation to prevent galling. Recommended lubricants: MRO Solutions 1000 Anti-Seize, Permatex® Anti-Seize Lubricant, Finish Line™ Anti-Seize Assembly Lube, USS Ultra Tef-Gel®, Bostik Never-Seez or equivalent anti-seize products. Hardened steel bolts, such as zinc plated or galvanized, rarely gall. Lubrication is optional for these materials.

Part No.	Size	BFV Series	Bolt Set Type	% Change	List
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Kit to Include 311N Series PVC/EPDM BFV With Coated Metal Steel Lever Handle

Pricing Schedule VK

KIT30311G	3	311	Galvanized	5%	\$590.26
KIT30311Z	3	311	Zinc	5%	574.91
KIT30311S	3	311	Stainless	5%	633.99

KIT40311G	4	311	Galvanized	5%	\$746.93
KIT40311Z	4	311	Zinc	5%	703.45
KIT40311S	4	311	Stainless	5%	856.05

KIT60311G	6	311	Galvanized	5%	\$1,157.88
KIT60311Z	6	311	Zinc	5%	1,118.94
KIT60311S	6	311	Stainless	5%	1,518.88

Kit to Include 711N Series PVC/EPDM BFV With Molded Blue ABS Lever Handle

Pricing Schedule VK

KIT20711G	2	1	Galvanized	5%	\$425.04
KIT20711Z	2	1	Zinc	5%	409.75
KIT20711S	2	1	Stainless	5%	467.84

KIT30711G	3	711	Galvanized	5%	\$456.08
KIT30711Z	3	711	Zinc	5%	446.16
KIT30711S	3	711	Stainless	5%	495.73

KIT40711G	4	711	Galvanized	5%	\$654.77
KIT40711Z	4	711	Zinc	5%	607.09
KIT40711S	4	711	Stainless	5%	747.69

KIT60711G	6	711	Galvanized	5%	\$1,022.27
KIT60711Z	6	711	Zinc	5%	944.41
KIT60711S	6	711	Stainless	5%	1,286.25

KIT80711G	8	711	Galvanized	5%	\$1,481.82
KIT80711Z	8	711	Zinc	5%	1,464.95
KIT80711S	8	711	Stainless	5%	1,896.32

Pressure ratings are for non-shock water at 73°F.

601N SERIES WAFER CHECK VALVE 2-1/2" - 8"



- Compact – requires little space in piping systems
- **No spacers required – Disc opens fully when installed using ANSI Sch 80 flanges/pipe**
- Light weight, easy to install – wafer body slips between standard Sch 80 flanges
- Working pressure 145 psi, non-shock water at 73°F
- Horizontal or Vertical Operation
- Replaceable O-Rings
- Vacuum rating: 29.9 Hg (inches mercury)
- Equipped with SS Spring
- Spring dampens the opening and closing action, avoiding water hammer
- Bubble tight seal with only 0.02 PSI back pressure

NOTE: 8" size must be mated with LASCO Brand P/N 854-080FT flanges for proper fit with hinge-plugs. Other sizes mate with all brands of ANSI Class 150 PVC Flanges.



Part No.	Size	Ctn. Qty.	List
PVC/EPDM with 316 SS SPRING: Pricing Schedule VA			
V27601N	2-1/2	1	\$473.73
V30601N	3	1	531.34
V40601N	4	1	679.64
V60601N	6	1	1,025.24
V80601N	8	1	1,407.86

PVC/VITON with 316 SS SPRING: Pricing Schedule VA			
V27602N	2-1/2	1	\$568.79
V30602N	3	1	637.89
V40602N	4	1	816.46
V60602N	6	1	1,231.16
V80602N	8	1	1,739.96

WAFER CHECK VALVE CONTRACTOR KITS AND BOLT SETS



Includes Wafer Check, two PVC flanges*, and properly-sized bolt set.

One convenient part number ensures that all materials will be delivered.

*LASCO PVC Vanstone Flanges with Fiber-Tuff Rings

WAFER CHECK CONTRACTOR KITS				WAFER CHECK BOLT SETS			
Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	%Change List
PVC/EPDM / 304 SS Bolt Set: Pricing Schedule VK				304 Stainless Steel: Pricing Schedule VB			
KIT27601S	2-1/2	1	\$591.94	V30WCKS	2-1/2" - 3"	1	5% \$74.04
KIT30601S	3	1	676.46	V40WCKS	4"	1	5% 141.94
KIT40601S	4	1	925.64	V60WCKS	6"	1	5% 253.01
KIT60601S	6	1	1,446.84	V80WCKS	8"	1	5% 401.13
KIT80601S	8	1	1,947.43	316 Stainless Steel: Pricing Schedule VB			
PVC/EPDM / Galvanized Bolt Set: Pricing Schedule VK				V30WCKS316	2-1/2" - 3"	1	\$94.00
KIT27601G	2-1/2	1	\$547.49	V40WCKS316	4"	1	203.00
KIT30601G	3	1	632.03	V80WCKS316	6 & 8"	1	362.00
KIT40601G	4	1	837.36	Galvanized: Pricing Schedule VB			
KIT60601G	6	1	1,268.24	V30WCKG	2-1/2" - 3"	1	15% \$39.76
KIT80601G	8	1	1,688.79	V40WCKG	4"	1	15% 73.19
PVC/VITON / 304 SS Bolt Set: Pricing Schedule VK				V60WCKG	6"	1	15% 109.89
KIT27602S	2-1/2	1	\$683.34	V80WCKG	8"	1	15% 170.13
KIT30602S	3	1	778.96	Lubricate Threads of Nuts and Bolts to prevent galling and increase fastener life:			
KIT40602S	4	1	1,057.21	For Stainless Steel, use Anti-Seize: Mill-Rose Blue Monster Nickel Anti-Seize, LOCTITE LB-771, Permatex 77134 or other Nickel-based Anti-Seize lubricants.			
KIT60602S	6	1	1,644.90	For Zinc-plated or Galvanized: Silicone or wax-based lubricants are suitable.			
KIT80602S	8	1	2,250.05				
PVC/VITON / Galvanized Bolt Set: Pricing Schedule VK							
KIT27602G	2-1/2	1	\$638.91				
KIT30602G	3	1	734.53				
KIT40602G	4	1	968.94				
KIT60602G	6	1	1,466.29				
KIT80602G	8	1	1,991.41				

601NP SERIES WAFER CHECK 10 & 12"

- **No spacer required - Disc opens fully when installed using ANSI SCH 80 Flanges/Pipe**

- Compact - requires little spacing in piping systems
- Working pressure 87 psi for 10 & 12"
- Horizontal or vertical position
- Replaceable O-rings
- Vacuum rating: 29.9 Hg
- 316 SS Spring dampens the opening and closing action, avoiding water hammer
- Pressure to open 0.3 psi, back pressure to close 1.0 psi
- EPDM gaskets included



Part No.	Size	Desc.	% Change	List
Wafer Check Valve, PVC/EPDM, with SS spring: Pricing Schedule VA				
V100601NP	10	10"		\$2,811.89
V120601NP	12	12"		3,951.83
BOLT SETS FOR 10 - 12" WAFER CHECK VALVES				
Part No.	Size	Ctn. Qty.	%Change	List
Galvanized Steel: Pricing Schedule VB				
V100WCKG	10	1	15%	\$271.29
V120WCKG	12	1	15%	275.92
304 Stainless Steel: Pricing Schedule VB				
V100WCKS	10	1	5%	\$617.13
V120WCKS	12	1	5%	662.39
316 Stainless Steel: Pricing Schedule VB				
V100WCKS316	10"	1		\$962.00
V120WCKS316	12"	1		1,012.00

To use effectively, clean the threads thoroughly. Coat the threads of the male bolt lightly, making sure it works into the thread valleys. Leave the very first 1-2 threads of the bolt bare to help the nut thread on cleanly without cross-threading. Screw the nut on and off the bolt once. This helps the compound evenly coat the entire threaded area. When assembling, reduce your standard torque specs by approximately 20% to avoid over-tightening. Use a rag to wipe away any excess anti-seize that squeezes out when the fastener is assembled.

AVOID: Petroleum-based lubricants and standard penetrating oils, as they can degrade adjacent PVC and CPVC piping components.

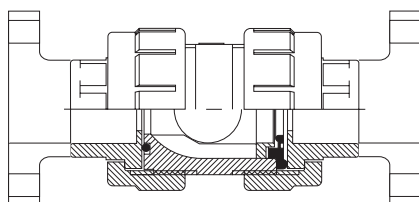
Pressure ratings are for non-shock water at 73°F.

TRUE UNION BALL CHECK VALVE



- Pressure Rating: 235 psi
- For Vertical or Horizontal Installation
- If installing a Ball Check Valve horizontally, a minimum of 5 psi (12' of head) back pressure is needed to maintain seat closure.
- Piston type ball, slides on guides to eliminate chatter in the open position.
- Strainer screen can be added (see next section)
- Silicone-Free Assembly
- Pressure Rating per ASTM F-1970

Note: 3/8" and 1/4" sizes are available (1/2" valves pre-assembled with reducer bushings). Contact Customer Service for part number and pricing.



(Flanged Type)

Part No.	Size	Ctn. Qty.	%Change	List
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PVC/EPDM: Pricing Schedule VA**Socket and Thread End Connectors**

V07271ST	1/2	48		\$97.60
V08271ST	3/4	36		116.40
V10271ST	1	24		138.38
V14271ST	1-1/4	12		202.13
V17271ST	1-1/2	12		232.14
V20271ST	2	12		316.92

PVC/FKM: Pricing Schedule VA**Socket and Thread End Connectors**

V07272ST	1/2	48		\$110.02
V08272ST	3/4	36		122.86
V10272ST	1	24		154.30
V14272ST	1-1/4	12		226.83
V17272ST	1-1/2	12		257.62
V20272ST	2	12		352.38

PVC/EPDM: Pricing Schedule VA**Flanged**

V07271NF	1/2	1		\$119.99
V08271NF	3/4	1		145.60
V10271NF	1	1		172.82
V14271NF	1-1/4	1		212.80
V17271NF	1-1/2	1		294.40
V20271NF	2	1		415.99

PVC/FKM: Pricing Schedule VA**Flanged**

V07272NF	1/2	1		\$150.40
V08272NF	3/4	1		180.79
V10272NF	1	1		211.20
V14272NF	1-1/4	1		276.80
V17272NF	1-1/2	1		319.98
V20272NF	2	1		425.58

Part No.	Size	Ctn. Qty.	%Change	List
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CPVC/EPDM: Pricing Schedule VA**Socket and Thread End Connectors**

V07273ST	1/2	48		\$151.84
V08273ST	3/4	36		181.74
V10273ST	1	24		214.43
V14273ST	1-1/4	12		369.32
V17273ST	1-1/2	12		369.32
V20273ST	2	12		494.56

CPVC/FKM: Pricing Schedule VA**Socket and Thread End Connectors**

V07274ST	1/2	48		\$169.03
V08274ST	3/4	36		201.97
V10274ST	1	24		238.23
V14274ST	1-1/4	12		409.99
V17274ST	1-1/2	12		409.99
V20274ST	2	12		549.62

CPVC/EPDM: Pricing Schedule VA**Flanged**

V07274NF	1/2	1		\$165.06
V08274NF	3/4	1		197.04
V10274NF	1	1		234.09
V14274NF	1-1/4	1		397.16
V17274NF	1-1/2	1		424.42
V20274NF	2	1		751.13

CPVC/FKM: Pricing Schedule VA**Flanged**

V07274NF	1/2	1		\$205.81
V08274NF	3/4	1		250.86
V10274NF	1	1		289.69
V14274NF	1-1/4	1		491.79
V17274NF	1-1/2	1		530.51
V20274NF	2	1		805.01

Note: Addition of Flanged Ends Reduces Pressure Rating to 150 psi

FOOT VALVE STRAINER FOR TRUE UNION BALL CHECKS



Replaces the Union Nut on the upstream side of the True Union Ball Check Valve (**sold separately**).

Install the assembly vertically with strainer side down. Prevents debris from entering the fluid stream of a suction pipeline. Valve opens when suction is activated. Ball then seats to close the valve when suction is not present.

Part No.	Size	Ctn. Qty.	%Change	List
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PVC: Pricing Schedule VA

V07271P	1/2	1		\$23.97
V08271P	3/4	1		31.94
V10271P	1	1		37.93
V17271P	1-1/4	1		51.90
	& 1-1/2			
V20271P	2	1		67.88

Part No.	Size	Ctn. Qty.	%Change	List
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CPVC: Pricing Schedule VA

V07273P	1/2	1		\$37.83
V08273P	3/4	1		50.43
V10273P	1	1		58.82
V17273P	1-1/4	1		81.98
	& 1-1/2			
V20273P	2	1		107.27

SINGLE UNION BALL CHECK VALVES SOCKET X SOCKET

- For Vertical or Horizontal Installation
- If installing a Ball Check Valve horizontally, a minimum of 5 psi (12' of head) back pressure is needed to maintain seat closure
- PP available by special order
- Pressure Rating per ASTM F-1970
- Silicone-Free Assembly
- Pressure Rating:
PVC and CPVC
235 psi 1/2 - 2"
150 psi 2-1/2"
100 psi 3 - 4"



Part No.	Size	Ctn. Qty.	%Change	List
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PVC w/EPDM O-Rings S x S: Pricing Schedule VA

V27221B1	2-1/2	8		\$638.39
V30221B1	3	6		816.81
V40221B1	4	4		939.74

CPVC w/EPDM O-Rings S x S: Pricing Schedule VA

V27223B	2-1/2	8		\$825.02
V30223B	3	6		928.39
V40223B	4	4		1,639.52

Part No.	Size	Ctn. Qty.	%Change	List
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PVC w/FKM O-Rings S x S: Pricing Schedule VA

V10222B	1	24		\$127.91
V17222B	1-1/2	12		209.36
V20222B	2	6		305.61
V27222B	2-1/2	8		739.17
V30222B	3	6		854.03
V40222B	4	4		982.42

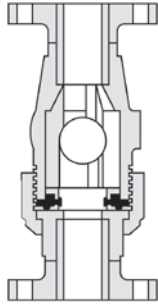
CPVC w/FKM O-Rings S x S: Pricing Schedule VA

V27224B	2-1/2	8		\$856.86
V30224B	3	6		965.64
V40224B	4	4		1,899.92

Pressure ratings are for non-shock water at 73°F.

FLANGED BALL CHECK 2-1/2 – 4"

- Pressure Rating: 150 psi
- ANSI Class 150 Flange
- If installing a Ball Check Valve horizontally, a minimum of 5 psi (12' of head) back pressure is needed to maintain seat closure



Part No. Size Ctn. Qty. %Change List

PVC w/EPDM O-Rings F x F: Pricing Schedule VA

V27241B	2-1/2	1	\$944.99
V30241B	3	1	1,293.24
V40241B	4	1	1,624.64

CPVC w/EPDM O-Rings F x F: Pricing Schedule VA

V27243B	2-1/2	1	\$1,333.29
V30243B	3	1	1,664.64
V40243B	4	1	2,439.22

Part No. Size Ctn. Qty. %Change List

PVC w/FKM O-Rings F x F: Pricing Schedule VA

V27242B	2-1/2	1	\$976.80
V30242B	3	1	1,330.49
V40242B	4	1	1,755.06

CPVC w/FKM O-Rings F x F: Pricing Schedule VA

V27244B	2-1/2	1	\$1,365.10
V30244B	3	1	1,701.89
V40244B	4	1	2,481.87

FOOT VALVE STRAINER FOR SINGLE UNION BALL CHECK

- Pressure Rating: 150 psi

Shown assembled with Single Union Ball Valve.
(sold separately)



Part No. Size Ctn. Qty. %Change List

PVC: Pricing Schedule VA

V08221P	3/4	1	\$30.27
V17221P	1-1/2	1	45.38
V20221P1	2	1	*
V27221P1	2-1/2	1	*
V30221P1	3	1	*
V40221P1	4	1	*

* Call for pricing.

Available in sizes 3/4 - 2" in PVC. Replaces the union end of the single union ball check valve. Installs vertically with strainer side down. Prevents debris from entering the fluid stream of a suction pipeline. Valve opens when suction is activated. Ball then seats to close the valve when suction is not present.

SCH 40 GRAY SWING CHECK VALVE

Two-piece body design joined with 304 SS fasteners, and an EPDM gasket. EPDM seal weighted with PVC disc.



- 150 psi in Open Position. 75 psi in the closed position.
- Gravity-based closure (no spring). The open position allows for unobstructed continuous flow with minimal head loss.
- Minimum opening pressure less than 0.5 PSI
- Horizontal Installation Only.

Part No. Size Ctn. Qty. %Change List

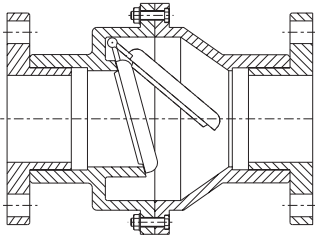
White PVC/EPDM: Pricing Schedule VA

Soc x Soc				
V10611N	1	80		\$26.98

Gray PVC/EPDM: Pricing Schedule VA

Soc x Soc with S.S. Fasteners				
V08611G	3/4	108	10%	\$35.12
V10611G	1	72	10%	38.66
V14611G	1-1/4	36	10%	48.30
V17611G	1-1/2	30	10%	52.68
V20611G	2	24	10%	64.97
V27611N	2-1/2	16	10%	136.29
V30611N	3	8	10%	167.89
V40611N	4	6	10%	325.90

FLANGED SWING CHECK VALVE



- Flange x Flange design allows for removal from the piping system for maintenance, or replacement.
- ANSI Class 150 Flange pattern
- Pressure rated to 150 psi in the open position, 75 psi in the closed position.
- PVC body and flange, 304 SS fasteners
- Body can be disassembled for maintenance
- Minimum opening pressure less than 0.5 PSI
- Horizontal Installation Only.

Part No. Size Ctn. Qty. %Change List

PVC/EPDM: Pricing Schedule VA

V17611NF	1-1/2	1	10%	\$136.29
V20611NF	2	1	10%	235.04
V30611NF	3	1	10%	464.19
V40611NF	4	1	10%	1,076.49

Gravity-based closure (no spring). The open position allows for unobstructed continuous flow with minimal head loss.

SPRING CHECK VALVES

- Pressure Rating: 100 psi
- Stainless steel spring maintains a positive seal even when no back pressure is present. 2 psi minimum flow pressure is required to open valve.



Part No. Size Ctn. Qty. %Change List

PVC/EPDM: Pricing Schedule VA

Soc x Soc				
V07221B	1/2	120	10%	\$18.97
V08221B	3/4	120	10%	20.37
V10221B	1	80	10%	30.14
V14221B	1-1/4	60	10%	40.31
V17221B	1-1/2	30	10%	41.57
V20221B	2	20	10%	50.04

Part No. Size Ctn. Qty. %Change List

PVC/EPDM: Pricing Schedule VA

Threaded x Threaded				
V07221T	1/2	120	10%	\$18.97
V08221T	3/4	120	10%	20.37
V10221T	1	80	10%	30.14
V14221T	1-1/4	60	10%	40.31
V17221T	1-1/2	30	10%	41.57
V20221T	2	20	10%	50.04

Pressure ratings are for non-shock water at 73°F.

AIR RELEASE / VACUUM BREAKER VALVE 1" & 2" MPT



- Allows for evacuation of air while filling the pipeline or tank.
- Allows for intake of air while draining the pipeline or tank, to prevent against vacuum formation.
- Pressure rating 150 psi
- Durable GF PA Body, Polypro internal float, PP Elbow, EPDM Seals
- Features internal insect-screen, accessible with removal of elbow
- 1" Size has 3/4" female thread on elbow, 2" Size has 1-1/2" female thread on elbow.

Part No.	Size	Ctn. Qty.	%Change	List
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Glass reinforced polyamid/PP/EPDM With MPT Connection: Pricing Schedule VA

V10527N	1	40	10%	\$88.89
V20527N	2	15	10%	183.33

CONTINUOUS-ACTING (COMBINED) AIR RELEASE / VACUUM BREAKER VALVE 1" & 2" MPT



- Allows for evacuation of air while filling the pipeline or tank, and the continuous-release of air pockets from pressurized pipes, via a secondary orifice.
- Allows for intake of air while draining the pipeline or tank, to prevent against vacuum formation.
- Pressure rating 150 psi

Part No.	Size	Ctn. Qty.	%Change	List
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Glass reinforced polyamid body, EPDM seals, MPT connection: Pricing Schedule VA

V10527CA	1	20	10%	\$127.78
V20527CA	2	10	10%	264.44

PVC SCH 80 UNION

- Pressure Rating: 235 psi 1/2" - 2"



Part No.	Size	Ctn. Qty.	List
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PVC SOC x SOC w/FKM: Pricing Schedule VU

857-005	1/2	10/160	\$20.49
857-007	3/4	10/160	26.03
857-010	1	10	29.70
857-015	1-1/2	10	66.82
857-020	2	10	86.47

PVC FPT x FPT w/FKM: Pricing Schedule VU

858-010	1	10	49.60
858-015	1-1/2	10	117.92
858-020	2	10	192.14

Part No.	Size	Ctn. Qty.	List
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PVC SOC x SOC w/EPDM: Pricing Schedule VU

897-005	1/2	10/160	\$20.20
897-007	3/4	10/160	25.70
897-010	1	10	29.42
897-015	1-1/2	10	65.97
897-020	2	10	89.53

PVC FPT x FPT w/EPDM: Pricing Schedule VU

898-010	1	10	44.64
898-015	1-1/2	10	106.13
898-020	2	10	172.93

Y-STRAINER



- Pressure Rating: 150 psi
- Equipped with**
20 Mesh PP Screen.
20 Mesh and 40 Mesh
SS Screen available in select sizes.

Part No.	Size	Ctn. Qty.	List
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PVC w/EPDM O-Rings: Pricing Schedule VB

Socket				
V07281B	1/2	24		\$83.52
V08281B	3/4	24		93.27
V10281B	1	24		103.03
V17281B	1-1/2	12		186.57
V20281B	2	9		234.26

Y-STRAINER REPLACEMENT CARTRIDGE

Part No.	Size	Ctn. Qty.	List
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PVC 20 MESH EPDM O-Ring (SS SCREEN):

Pricing Schedule VB			
V07281BM	1/2	1	\$19.58
V10281BM	1	1	32.64

PVC 40 MESH EPDM O-Ring (SS SCREEN):

Pricing Schedule VB			
V10281BO	1	1	\$32.64

Note: Screens have square openings	Size
20 mesh Stainless Steel	0.032"
20 mesh Polypropylene	0.028"
40 mesh Stainless Steel	0.016"

Part No.	Size	Ctn. Qty.	List
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CPVC 40 MESH Viton® O-Ring (SS SCREEN):

Pricing Schedule VB			
V10284BO	1	1	\$68.69
V17284BO	1-1/2 & 1-1/4	1	84.27

PVC 20 Mesh (PP Screen) EPDM O-Ring:

Pricing Schedule VB			
V07281PM	1/2	1	\$19.58
V08281PM	3/4	1	26.11
V10281PM	1	1	32.64
V17281PM	1-1/2	1	39.17
V20281PM	2	1	52.20

In-line Y-Strainers protect pumps and other pipeline components by removing solids and sediment. Colonial Y-Strainers are suitable for flow rates of up to 150 gpm, in applications which require infrequent cleaning and in which the process media is environmentally safe. The strainer branch of the Y-Strainer must be pointing downward so that gravity enables the trapping of sediment and debris. The system must be depressurized and drained prior to removing and cleaning or replacing the strainer cartridge.

Colonial recommends the purchase of an extra cartridge with each Y-Strainer so that maintenance time can be reduced.

Pressure ratings are for non-shock water at 73°F.

Y-STRAINERS

UNIONS

SLO-CLOSE PLASTIC BALL VALVES

Patented thermoplastic gear driven operating nut rotates 360° to achieve a 90° turn of the ball. The result is slow closure and the elimination of water hammer, while maintaining the positive shut-off and reliable service of a ball valve. Components and internal gears of the Slo-Close system are molded of durable Acetal material, and the Set screw is 316 SS. The system is mounted on Colonial's Full Block True Union Ball Valve, and Super C Sch 80 Compact Valve, both of which have a proven record of quality in industrial process piping, water treatment, commercial plumbing and irrigation markets for over 30 years.

Valve can be actuated by use of a standard Champion Sprinkler Key or Lasco Valve Key. Successfully introduced to the Turf Irrigation market in isolation valve applications, the Slo-Close valve will perform in any industry where the avoidance of water hammer is a priority. **Do not use for throttling (in partially open position).**

See List Price Sheet VPSC for a complete listing of Slo-Close Valves and Accessories.

NOTE: Master distribution of the Slo-Close Series **for the irrigation industry** is offered through:

Westlake Pipe & Fittings (LASCO)	(731) 772-3180
414 Morgan Street	(800) 776-2756
Brownsville, TN 38012	Fax: (731) 772-0835



RECOMMENDATIONS TO INSTALLERS AND USERS

Plastic piping systems should be engineered, installed, operated and maintained in accordance with accepted standards and procedures. Suitability for the intended application should be determined and verified by the designer and/or installer. Prior to assembly, all piping components should be inspected for damage or irregularities, and for the proper fit of mating components. The published instructions of the manufacturers of all attributes of the piping system (including but not limited to: pipe, fittings, valves, solvent cement & primer, thread sealant or Teflon tape) must be followed. All design, installation, operation and maintenance personnel must be trained on the proper precautions, use, handling, and installation of thermoplastic piping systems prior to use. A NOTE ON VALVE SELECTION: Ball Valves are designed for On/Off service and are NOT SUITABLE for throttling in a semi-closed position. Butterfly Valves ARE SUITABLE for both throttling and for On/Off service. For complete installation advice, please visit <http://www.colonialengineering.com>

For Temperature and Pressure De-Rating Information See Page 3.

MATERIALS FOR O-RINGS AND VALVE SEATS

The information on this page has been supplied to Colonial Engineering, Inc. by other reputable sources and is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. Before permanent installation, test the equipment with the chemicals and under the specific conditions of your application. Colonial Engineering, Inc. does not warrant (neither express nor implied) that the information on this page is complete or that any material is suitable for any purpose.

EPDM – Suitable for most types of irrigation, pool, process piping, and basic water distribution, including chlorinated and salt water, and mild concentrations of a range of chemicals. EPDM Rubber has excellent tear and abrasion resistance and is chemically resistant to a large variety of acids, alkalis, alcohol, and oxidants.

Recommended for: phosphate ester base hydraulic fluids, water, silicone oils and greases, dilute acids, dilute alkalis, ketones, alcohol's and automotive brake fluids.

Not recommended for: petroleum oils or dilutions of hydrocarbons, di-ester base lubricants.

FKM (Viton®) – For use with heavier concentrations of chemicals, sodium hypochlorite (bleach), Ozone, and others. The terms FPM, FKM and Viton® very often cause confusion and lead to incorrect interpretations. All of these designations actually stand for one single base material: fluoro rubber. Viton® is the registered trade mark of DuPont Performance Elastomers.

Recommended for: Petroleum oils, di-ester based lubricants, silicate ester base lubricants, silicone fluids and greases, halogenated hydrocarbons, selected phosphate ester fluids and acids, water.

Not recommended for: ketones, amines, low molecular weight esters and ethers, and hot hydrofluoric or chlorosulfonic acids.

Buna-N (aka Nitrile) – used only for butterfly valves, when they will be exposed to hydrocarbons (examples: methane gas in the mining, landfill, and energy markets, or a solution that contains some concentration of petroleum.)

Buna-N (also known as Nitrile rubber or NBR), is the general term for acrylonitrile butadiene terpolymer. It has good mechanical properties when compared with other elastomers, and high wear resistance.

It is not resistant to weathering and ozone.

Recommended for: Aliphatic hydrocarbons (propane, butane, petroleum oil, mineral oil and grease, diesel fuel, fuel oils) vegetable and mineral oils and greases; HFA, HFB and HFC fluids; Dilute acids, alkali and salt solutions at low temperatures; water.

Not recommended for: Fuels of high aromatic content (for flex fuels a special compound must be used); Aromatic hydrocarbons (benzene); Chlorinated hydrocarbons (trichlorethylene); Polar solvents (ketone, acetone, acetic acid, ethylene-ester); Strong acids; Brake fluid with glycol base; Ozone, weather and atmospheric aging.

PTFE (Polytetrafluoroethylene) – Teflon®, used for the seats of Industrial TUBV, Commercial TUBV, Super C Compact, and Industrial MIP ball valves. This nearly insoluble and chemically inert fluorocarbon is used for valve seats. PTFE has a natural lubricating quality and high thermal stability. It has excellent dielectric properties and chemical resistance, low friction, outstanding stability at high temperatures.

TEFLON® is a registered trademark of DuPont. Only DuPont makes Teflon. DuPont™ is a trademark of DuPont and its affiliates. Viton® is a registered trademark of DuPont Performance Elastomers

TERMS AND CONDITIONS OF SALE

These terms and conditions apply to sales of stock valves and pipe fittings within the continental United States. For shipments to Alaska, or for international and offshore shipments, please contact Customer Service for details.

Freight: FOB Colonial warehouse. Prepaid on orders totaling \$1,000 net for one shipment to single destination within the contiguous United States.

Terms of Payment: 2% 35 days, net 45 days. Unauthorized deductions will be charged back to the customer.

Prices: Pricing is subject to change without prior notice. However, prior notification will be given in the event of price changes in the period between order placement and scheduled shipment

Minimum Billing: Invoices will not be issued for less than \$25.00 (net minimum). Orders below net minimum will be billed at minimum plus freight charges. Exception is next-day air orders.

Returned Goods: Material that is being returned must receive prior written notification. Contact Customer Service for information. All returned goods shall be subject to terms and conditions outlined in the return authorization. To cover costs of re-handling and inspection, 20% will be charged on returned merchandise. Returned merchandise must be sent freight prepaid by the customer.

Any items either defective in manufacture or shipped in error will be replaced at no charge to the customer. In either case, please notify the warehouse of origin.

In keeping with general practice, all merchandise is shipped at purchaser's risk. All claims for damage or loss in transit must be filed with the carrier involved. Shipments should be checked for product damage and carton count before signing delivery receipt. A signed bill of lading with no exceptions noted will stand as written acknowledgement of correct count and acceptable condition.

Non-returnable Goods: Certain items that are customized to a customer's specifications are considered non-returnable. In these cases, this fact will be duly noted on both the quotation.

Order Acceptance: All orders are subject to acceptance by Colonial Engineering, Inc. Possession of our catalog or price list by any person is not to be construed as an offer to sell to that person.

Compressed Air Warning: The products in this document are only intended for use in transferring or storing chemically compatible pressurized liquids. Do not test or use products in this document with compressed air or other gases. Doing so is dangerous and could cause injury or great bodily harm should a system fail under compressed air. Only use products that are specifically designed for compressed air/gas service. Call Colonial technical service for more information.

36-Month Limited Warranty: Except as otherwise mandated by law, Colonial Engineering, Inc. (Manufacturer) warrants that its products shall be free from defects in material and workmanship for a period of 36 months from date of shipment.

Manufacturer will provide new replacement units of the same type and size for products proved to have manufacturing defects, for the duration of this warranty, provided that the manufacturer has been given the opportunity to inspect the product alleged to be defective and the installation or use thereof. No warranty is included against any expense for removal, reinstallation or other consequential damages arising from any defect.

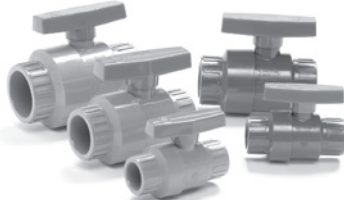
Customer agrees that this warranty shall be effective so long as the goods are used solely for the normal purposes for which they are designed and intended, and in conformance with industry-established engineering, installation, operating, and maintenance specifications, recommendations and instructions. Violation thereof shall void this warranty and relieve the manufacturer from any obligation under this warranty. Manufacturer does not assume, and expressly disclaims any liability due to end-user's failure to comply with said specifications, recommendations and instructions.

The warranties set out above are the only warranties made by the manufacturer and are expressly in lieu of all other warranties, expressed or implied, including the warranties of merchantability or fitness for a particular purpose.

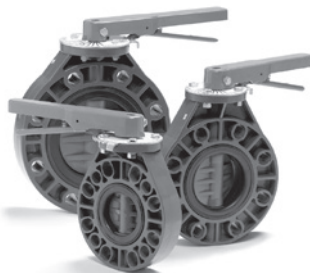




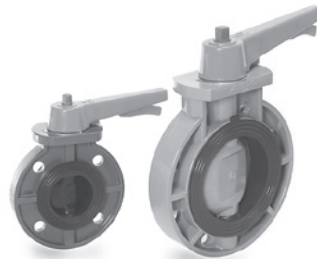
**SLO-CLOSE
BALL VALVES**



SUPER "C"™ BALL VALVES



311N BUTTERFLY VALVES



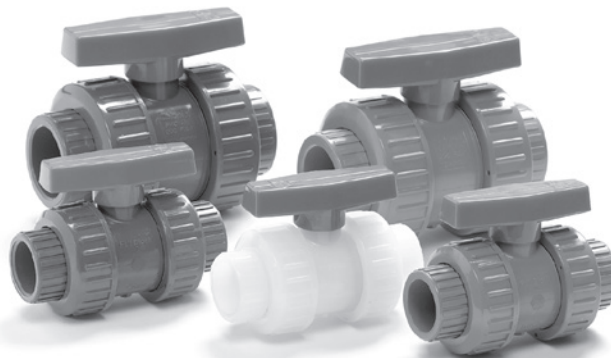
**BUTTERFLY VALVES
(2-8")**



**BUTTERFLY VALVES
(3-24")**



**MIP VALVES
(1/2 - 4")**



FULL BLOCK™ INDUSTRIAL TRUE UNION BALL VALVES

Colonial Valve proudly serves wholesalers in the industrial PVF, process piping, water treatment, pool/spa, commercial plumbing, and irrigation markets.

APPLICATIONS FOR COLONIAL VALVES

- Reverse Osmosis Systems
- Waste Water Treatment
- Pesticide Manufacturing
- Mining
- Chemical Processing
- Swimming Pools/Spas
- Aquariums
- Irrigation
- Metal Finishing and Plating
- Fluid Circulation Systems
- Fertilization
- De-Ionized Water
- Aqua Culture
- Pharmaceutical
- Pulp and Paper Processing
- Photographic Processing Systems
- Food Processing
- Original Equipment Manufactured Products (OEM)
- Wherever Reliable Corrosion-Resistant Flow-Control is Needed



CUSTOM INJECTION MOLDING
Contact customer service for details.



TRUE UNION BALL CHECK VALVES



SPRING CHECK VALVES & SWING CHECK VALVES



AIR RELEASE VALVES



WAFER CHECK VALVE



ACTUATED VALVES



COMMERCIAL TRUE UNION BALL VALVES

COLONIAL VALVE
A DIVISION OF COLONIAL ENGINEERING, INC.

Proven Performance Since 1982