

Corrosion Resistant Thermoplastic Valves and Unions

LIST PRICE SHEET

BALL VALVES

MIP BALL VALVES

BUTTERFLY VALVES

CHECK VALVES

STRAINERS

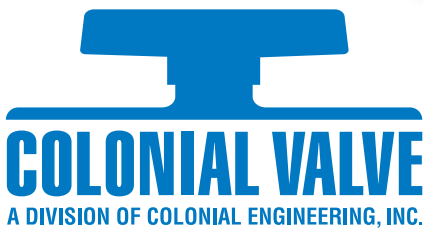
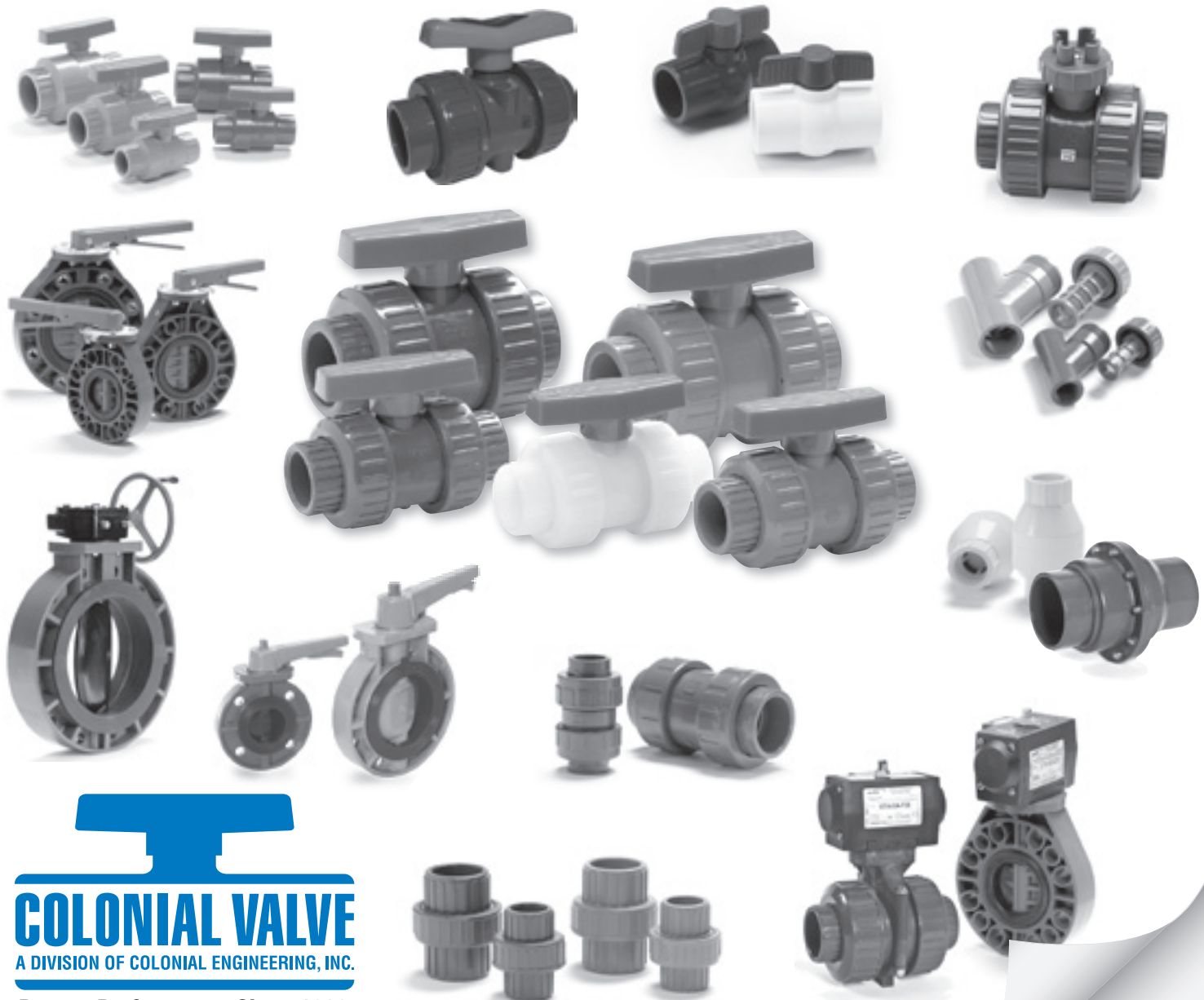
UNIONS

ACTUATED VALVES

SLO-CLOSE VALVES

INFO/TERMS/WARRANTY

CATEGORY	DISCOUNT MULTIPLIER	EFFECTIVE - Aug 1, 2011 Revised* April 1, 2012 VPS-22
PRICING SCH A		*Price changes are limited only to those in BOLD print
PRICING SCH B		
PRICING SCH C		
PRICING SCH E		
PRICING SCH K		
PRICING SCH S		
MIP		
UNIONS		



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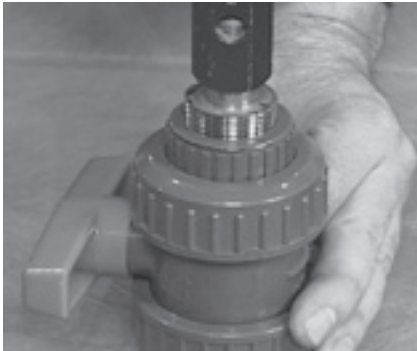
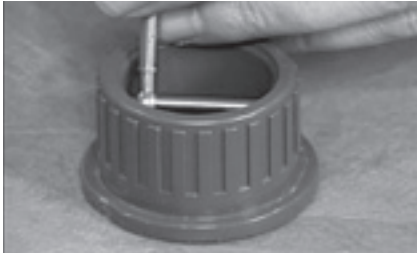
www.colonialengineering.com

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 50% 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)

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.

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

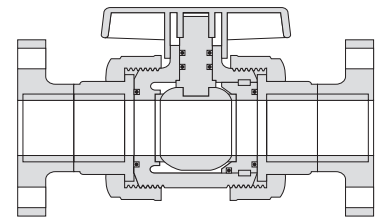
Caution: Colonial recommends a minimum installation distance of 10 X the pipe diameter from a pump or other sources of turbulence.

COMPRESSED AIR WARNING

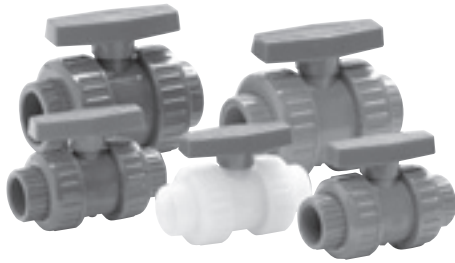
The products in this document are only intended for use in transferring or storing chemically compatible pressurized liquids. Do not test or use products in this document with compressed air or other gases. Doing so is dangerous and could cause injury or great bodily harm should a system fail under compressed 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).



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

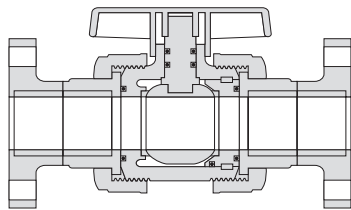


- Pressure Rating (non-shock water 73°F):
235 psi 1/2" - 2"
150 psi 2-1/2" - 6"
- Pressure rating per ASTM F-1970
- Features external seat-wear adjustment.
- Actuated valve packages available on TUBV's and Butterfly Valves.
- Full Port Schedule 80 Design
- Smooth Turning
- Repair Parts Available
- Full Port Sch 80 design virtually eliminates pressure drop, providing excellent flow characteristics.
- Production after November 2010 is assembled with water soluble, silicone-free o-ring lubricant. (Exception: 2-1/2")

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.

Part No.	Size	Ctn. Qty.	List
PVC w/EPDM O-RINGS: Pricing Schedule A			
Socket & Threaded End Connectors			
V07101N	1/2	24	\$42.46
V08101N	3/4	24	49.71
V10101N	1	24	58.69
V14101N	1-1/4	12	99.70
V17101N	1-1/2	12	99.70
V20101N	2	6	132.96
V27050N*2	2-1/2	6	186.50
Socket			
V30101N	3	4	\$315.98
V40101N	4	1	545.31
V60101N *1	6	1	845.54
Threaded			
V30111N	3	4	\$315.98
V40111N	4	1	545.31
Flanged			
V07121N	1/2	1	\$68.49
V08121N	3/4	1	86.79
V10121N	1	1	105.06
V14121N	1-1/4	1	123.32
V17121N	1-1/2	1	155.31
V20121N	2	1	247.80
V30121N	3	1	479.59
V40121N	4	1	964.29
V60121N *1	6	1	1,406.00

Part No.	Size	Ctn. Qty.	List
CPVC w/EPDM O-RINGS: Pricing Schedule A			
Socket & Threaded End Connectors			
V07103N	1/2	24	\$63.92
V08103N	3/4	24	80.51
V10103N	1	24	95.84
V14103N	1-1/4	12	160.91
V17103N	1-1/2	12	160.91
V20103N	2	6	215.22
Socket			
V30103N	3	4	\$593.81
V40103N	4	1	911.09
Threaded			
V30113N	3	4	\$593.81
V40113N	4	1	911.09
Flanged			
V07123N	1/2	1	\$107.34
V08123N	3/4	1	131.28
V10123N	1	1	151.92
V14123N	1-1/4	1	225.68
V17123N	1-1/2	1	247.80
V20123N	2	1	345.14
V30123N	3	1	893.84
V40123N	4	1	1,566.44



(Flanged Type)

Part No.	Size	Ctn. Qty.	List
PVC w/VITON® O-RINGS: Pricing Schedule A			
Socket & Threaded End Connectors			
V07102N	1/2	24	\$48.20
V08102N	3/4	24	55.87
V10102N	1	24	67.33
V14102N	1-1/4	12	111.04
V17102N	1-1/2	12	111.04
V20102N	2	6	146.41
V27051N*2	2-1/2	6	267.14
Socket			
V30102N	3	4	\$352.03
V40102N	4	1	601.24
V60102N *1	6	1	900.88
Threaded			
V30112N	3	4	\$352.03
V40112N	4	1	601.24
Flanged			
V07122N	1/2	1	\$76.70
V08122N	3/4	1	94.40
V10122N	1	1	113.58
V14122N	1-1/4	1	123.32
V17122N	1-1/2	1	169.62
V20122N	2	1	261.08
V27151N	2-1/2	1	450.00
V30122N	3	1	595.90
V40122N	4	1	1,116.57
V60122N *1	6	1	1,441.07

Part No.	Size	Ctn. Qty.	List
CPVC w/VITON® O-RINGS: Pricing Schedule A			
Socket & Threaded End Connectors			
V07104N	1/2	24	\$71.03
V08104N	3/4	24	89.48
V10104N	1	24	106.48
V14104N	1-1/4	12	174.57
V17104N	1-1/2	12	174.57
V20104N	2	6	247.41
V27054N*2	2-1/2	6	375.89
Socket			
V30104N	3	4	\$638.53
V40104N	4	1	1,079.11
V60104N *1	6	1	1,763.40
Threaded			
V30114N	3	4	\$638.53
V40114N	4	1	1,079.11
Flanged			
V07124N	1/2	1	\$120.94
V08124N	3/4	1	138.64
V10124N	1	1	160.78
V14124N	1-1/4	1	233.04
V17124N	1-1/2	1	256.64
V20124N	2	1	411.52
V27154N	2-1/2	1	750.00
V30124N	3	1	913.02
V40124N	4	1	1,629.87
V60124N *1	6	1	2,663.22

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

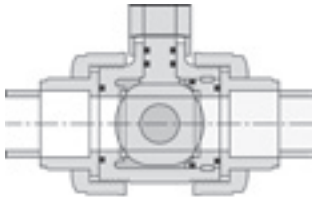
*2 2-1/2" TUBV's are from the Commercial Series. Full Port. PTFE seat. 150 psi.

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

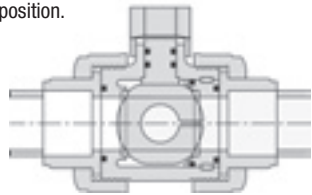
Pressure ratings are for non-shock water at 73°F.

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.	List
PVC w/VITON®: Pricing Schedule A			
Socket & Threaded End Connectors			
V07102N-V	1/2	1	\$56.96
V08102N-V	3/4	1	64.62
V10102N-V	1	1	76.09
V14102N-V	1-1/4	1	125.64
V17102N-V	1-1/2	1	125.64
V20102N-V	2	1	163.92
V27051N-V ✱ ²	2-1/2	1	325.06
Socket End Connectors			
V30102N-V	3	1	\$373.93
V40102N-V	4	1	623.13
V60102N-V ✱ ¹	6	1	922.76
PVC/VITON THREADED: Pricing Schedule A			
V30112N-V	3	1	\$373.93
V40112N-V	4	1	623.13
PVC w/VITON® FLANGED: Pricing Schedule A			
Socket & Threaded End Connectors			
V07122N-V	1/2	1	\$85.46
V08122N-V	3/4	1	103.16
V10122N-V	1	1	122.33
V14122N-V	1-1/4	1	151.56
V17122N-V	1-1/2	1	184.22
V20122N-V	2	1	278.58
V27151N-V	2-1/2	1	480.00
V30122N-V	3	1	617.78
V40122N-V	4	1	1,138.46
V60122N-V ✱ ¹	6	1	1,462.97

Part No.	Size	Ctn. Qty.	List
CPVC w/VITON®: Pricing Schedule A			
Socket & Threaded End Connectors			
V07104N-V	1/2	1	\$73.58
V08104N-V	3/4	1	96.04
V10104N-V	1	1	115.24
V14104N-V	1-1/4	1	182.33
V17104N-V	1-1/2	1	182.33
V20104N-V	2	1	264.92
V27054N-V ✱ ²	2-1/2	1	482.27
Socket End Connectors			
V30104N-V	3	1	\$660.42
V40104N-V	4	1	1101.00
V60104N-V ✱ ¹	6	1	1785.29
CPVC/VITON THREADED: Pricing Schedule A			
V30114N-V	3	1	\$660.42
V40114N-V	4	1	1101.00
CPVC w/VITON® FLANGED: Pricing Schedule A			
V07124N-V	1/2	1	\$129.70
V08124N-V	3/4	1	147.40
V10124N-V	1	1	169.52
V14124N-V	1-1/4	1	247.64
V17124N-V	1-1/2	1	271.24
V20124N-V	2	1	429.03
V27154N-V	2-1/2	1	785.00
V30124N-V	3	1	934.91
V40124N-V	4	1	1,651.76
V60124N-V ✱ ¹	6	1	2,685.11

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



• Pressure rating 150 psi

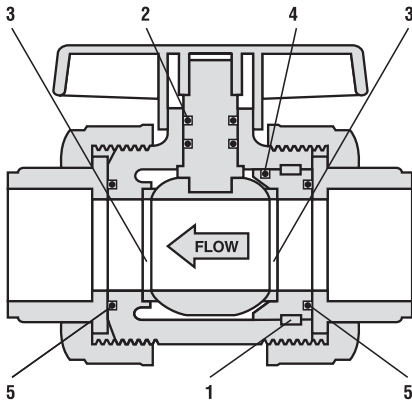
Polypropylene valves offer high chemical resistance, low extractable values, and elevated temperature capabilities.* They are suitable for a wide range of applications including corrosive chemical waste, and process piping in chemical and industrial plants, water treatment facilities, laboratories, the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

Part No.	Size	Ctn. Qty.	List
PP w/VITON® O-RINGS: Pricing Schedule A			
Socket (Fusion) & Threaded End Connectors			
V07106N	1/2	24	\$57.47
V08106N	3/4	24	67.21
V10106N	1	24	85.10
V17106N	1-1/2	12	141.19
V20106N	2	6	191.38

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

FULL BLOCK™ REPAIR KIT

REPLACEMENT PARTS



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

Part No.	Size	Ctn. Qty.	List
EPDM: Pricing Schedule B			
V07101NR	1/2	1	\$5.77
V08101NR	3/4	1	6.26
V10101NR	1	1	11.04
V14101NR	1-1/4	1	19.03
V17101NR	1-1/2	1	19.03
V20101NR	2	1	27.11
V30101NR	3	1	35.02
V40101NR	4	1	53.17

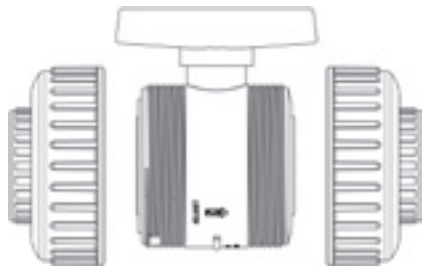
Part No.	Size	Ctn. Qty.	List
VITON®: Pricing Schedule B			
V07102NR	1/2	1	\$12.41
V08102NR	3/4	1	17.44
V10102NR	1	1	23.22
V14102NR	1-1/4	1	26.14
V17102NR	1-1/2	1	26.14
V20102NR	2	1	40.51
V30102NR	3	1	86.47
V40102NR	4	1	125.72

Part No.	Size	Ctn. Qty.	List
REPLACEMENT HANDLES FOR FULL BLOCK™ TRUE UNION BALL VALVES			
Pricing Schedule B			
V07101K2	1/2	1	\$2.62
V08101K2	3/4	1	4.02
V10101K2	1	1	5.27
V14101K2	1-1/4	1	7.90
V17101K2	1-1/2	1	7.90
V20101K2	2	1	10.56
V30101K	3	1	21.09
V40101K	4	1	27.56

OTHER AVAILABLE REPLACEMENT PARTS
 Ball, Stem, End Connector, Union Nut
 Check with Customer Service for availability.
 Colored and round handles also available.
 Call customer service for details.

COLONIAL VCR™ SERIES CARTRIDGES

Face to face dimensions, and body threads enable the VCR™ to fit between the end connectors of an existing, installed Colonial Full Block® Series TUBV, and engage properly with the installed union nuts.



Vented TUBV cartridges for use with Sodium Hypochlorite and other high concentrations of bleach are available.

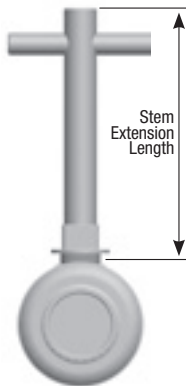
Part No.	Size	Ctn. Qty.	List
Material: PVC with EPDM O-rings and PTFE Seats			
Pricing Schedule E			
V07101CR	1/2	48	\$33.30
V08101CR	3/4	48	\$39.26
V10101CR	1	48	\$46.90
V17101CR	1-1/4 & 1-1/2	24	\$74.20
V20101CR	2	12	\$97.30
V30101CR	3	6	\$236.60
V40101CR	4	4	\$399.70

Part No.	Size	Ctn. Qty.	List
Material: PVC with Viton® O-rings and PTFE Seats			
Pricing Schedule E			
V07102CR	1/2	48	\$36.99
V08102CR	3/4	48	\$43.81
V10102CR	1	48	\$52.21
V17102CR	1-1/4 & 1-1/2	24	\$82.60
V20102CR	2	12	\$108.50
V30102CR	3	6	\$263.20
V40102CR	4	4	\$443.80

Part No.	Size	Ctn. Qty.	List
Material: CPVC with Viton® O-rings and PTFE Seats			
Pricing Schedule E			
V07104CR	1/2	48	\$51.54
V08104CR	3/4	48	\$64.85
V10104CR	1	48	\$77.70
V17104CR	1-1/4 & 1-1/2	24	\$123.90
V20104CR	2	12	\$170.80
V30104CR	3	6	\$508.20
V40104CR	4	4	\$770.70

STEM EXTENSION FOR FULL BLOCK® TRUE UNION BALL VALVE 1 – 4"

Constructed from PVC, this stem extension replaces the handle for a Full Block® True Union Ball Valve. It locks securely to the stem and stem-stops, and is offered for valve sizes 1" – 4".



* Unsupported - bracing is recommended for lengths exceeding 24".

To order, use part number and specify the length from top of valve to top of stem extension.

Example: Order V20SE1 (24) to receive a 24" stem extension to fit on the 2" Full Block TUBV.

Part No.	Size	Ctn. Qty.	List
6" - 18" Length			
PVC Stem Extension: Pricing Schedule B			
V10SE	1	1	\$85.00
V17SE	1-1/4 & 1-1/2	1	85.00
V20SE	2	1	85.00
V30SE	3	1	90.00
V40SE	4	1	90.00

Part No.	Size	Ctn. Qty.	List
19" - 36" Length*			
PVC Stem Extension: Pricing Schedule B			
V10SE1	1	1	\$90.00
V17SE1	1-1/4 & 1-1/2	1	90.00
V20SE1	2	1	90.00
V30SE1	3	1	95.00
V40SE1	4	1	95.00

Part No.	Size	Ctn. Qty.	List
37" - 72" Length*			
PVC Stem Extension: Pricing Schedule B			
V10SE2	1	1	\$105.00
V17SE2	1-1/4 & 1-1/2	1	105.00
V20SE2	2	1	105.00
V30SE2	3	1	115.00
V40SE2	4	1	115.00

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

LOCKING HANDLE KITS



- Locks securely in either Open or Closed position

Fabricated steel, painted for corrosion resistance, stainless fasteners for **Full Block True Union Ball Valves**. Made to order. **14-day lead time. Valve sold separately.** Kit price includes mounting on valve.

Part No.	Size	Ctn. Qty.	List
PVC: Pricing Schedule B			
FCL007BV	1/2	1	\$84.38
FCL008BV	3/4	1	94.69
FCL010BV	1	1	95.31
FCL017BV	1-1/4 or 1-1/2	1	104.69
FCL020BV	2	1	128.28
FCL030BV	3	1	162.03
FCL040BV	4 or 6	1	187.50

ROUND HANDLES



Round handles available for 1/2, 3/4, and 1" **Full Block TUBV**. Replaces original T-handles.

Part No.	Size	Ctn. Qty.	List
PVC: Pricing Schedule B			
V07101KR	1/2	1	\$2.63
V08101KR	3/4	1	3.02
V10101KR	1	1	3.97

COMMERCIAL TRUE UNION BALL VALVE WITH PTFE SEATS



1/2" - 2"

235 psi



2-1/2"

150 psi

- PTFE Seats
- Pressure rating per ASTM F-1970
- Schedule 80 Sockets and NPT Threads
- Blocked Carrier
- Replaceable Handle
- Smooth Turning
- Adjustable Seat
- Sizes 1-1/2 & 2-1/2" are Full Port, Sch 80. The remaining sizes are less than Full Port.
- NSF-61 Product also Certified to NSF/ANSI 61, Annex G and is in compliance with California's Health & Safety Code Section 116875 (commonly known as AB1953) and Vermont Act 193.

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



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.

Part No.	Size	Ctn. Qty.	List
PVC w/EPDM O-RINGS: Pricing Schedule A			
Socket & Threaded End Connectors			
V07050N	1/2	48	\$22.94
V08050N	3/4	36	29.44
V10050N	1	24	38.83
V14050N	1-1/4	24	59.18
V17050N	1-1/2	24	79.09
V20050N	2	12	104.50
V27050N	2-1/2	6	186.50

For 3" & 4" Industrial TUBVs, see page 4.

For 3" & 4" Economy TUBVs, see below.

Part No.	Size	Ctn. Qty.	List
CPVC w/KFM O-RINGS: Pricing Schedule A			
Socket & Threaded End Connectors			
V27054N	2-1/2	6	\$338.30

Part No.	Size	Ctn. Qty.	List
050N Series Replacement Handles: Pricing Schedule B			
V07050K	1/2	1	\$3.11
V08050K	3/4	1	4.00
V10050K	1	1	4.89
V14050K	1-1/4	1	7.56
V17050K	1-1/2	1	8.00
V20050K	2	1	10.67
V27050K	2-1/2	1	13.33

"NEW" ECONOMY TRUE UNION BALL VALVE

- Max Pressure 150 psi
- Lightweight, corrosion resistant plastic construction.
- Designed for swimming pool, greenhouse, pond, irrigation, and other water applications.
- TPE seat
- Not for use in heavy industrial or concentrated chemical applications. (For these applications, see Industrial TUBV, page 4)



Part No.	Size	Ctn. Qty.	List
PVC WITH EPDM O-RINGS AND TPE SEATS. BLUE ABS HANDLE: Pricing Schedule A			
Socket & Threaded End Connectors			
V17801N	1-1/2	24	\$55.22
V20801N	2	12	73.11
V27801N	2-1/2	6	129.89
Soc x Soc			
V30801N	3	4	\$220.89
V40801N	4	1	381.11
Threaded			
V30811N	3	4	\$220.89
V40811N	4	1	381.11

Part No.	Size	Ctn. Qty.	List
801N Series Replacement Handles: Pricing Schedule B			
V17801K	1-1/2	1	\$8.89
V20801K	2	1	11.11
V27801K	2-1/2	1	16.67
V30801K	3	1	22.22
V40801K	4	1	31.11

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

SINGLE UNION BALL VALVE WITH TEFLON® SEATS

- Pressure Rating: 235 psi
- Full Port Schedule 80 Design

Note: Seat carrier is not blocked with Single Union Ball Valve. For blocked carrier, see True Union Ball Valves.



Part No.	Size	Ctn. Qty.	List
PVC w/EPDM O-RINGS: Pricing Schedule A			
Socket			
V07131B	1/2	24	\$22.36
V08131B	3/4	24	28.51
V10131B	1	24	33.34
V14131B	1-1/4	12	54.13
V17131B	1-1/2	12	54.13
V20131B	2	12	77.20

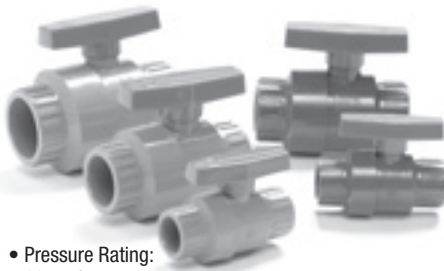
WHITE PVC SINGLE UNION BALL VALVES

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



Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
Pricing Schedule A				Pricing Schedule A			
Socket				Threaded			
V08131W	3/4	60	\$18.91	V17141W	1-1/2	30	\$31.91
V10131W	1	50	22.46	V20141W	2	20	46.10
V17131W	1-1/2	30	30.73				
V20131W	2	20	41.37				

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



- Pressure Rating: 235 psi
- Smooth Turning, Industrial Strength Compact Valve.
- Permanently Sealed Maintenance Free.
- Replaceable Handles available.
- 1/2" - 1-1/2" are Full Port Sch 80. 2" has 1.81" bore. All have Sch 80 sockets or NPT Threads.
- Pressure Rating per ASTM F-1970

Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
PVC w/EPDM O-RINGS: Pricing Schedule A				CPVC w/VITON® O-RINGS: Pricing Schedule A			
Socket				Socket			
V07191N	1/2	24	\$18.66	V07194N	1/2	24	\$25.74
V08191N	3/4	24	23.18	V08194N	3/4	24	34.33
V10191N	1	24	27.64	V10194N	1	24	42.93
V14191N	1-1/4	12	40.19	V14194N	1-1/4	12	71.22
V17191N	1-1/2	12	51.34	V17194N	1-1/2	12	87.90
V20191N	2	12	69.21	V20194N	2	12	114.49
Threaded				Threaded			
V07201N	1/2	24	\$18.66	V07204N	1/2	24	\$25.74
V08201N	3/4	24	23.18	V08204N	3/4	24	34.33
V10201N	1	24	27.64				
V14201N	1-1/4	12	40.19				
V17201N	1-1/2	12	51.34				
V20201N	2	12	69.21				

TWO-PIECE INDUSTRIAL COMPACT BALL VALVE WITH TEFLON® SEATS

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



Part No.	Size	Ctn. Qty.	List
PVC w/EPDM O-RINGS: Pricing Schedule A			
Socket			
V27191N	2-1/2	12	\$119.64
V30191N	3	8	244.79
V40191N	4	2	367.18

LABORATORY BALL VALVE

- Pressure Rating: 150 psi



Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
PVC/EPDM: Pricing Schedule A				PVC/VITON®: Pricing Schedule A			
V03531N	1/4 MPTxMPT	24	\$16.94	V03532N	1/4 MPTxMPT	24	\$18.81
V03541N	1/4 HBxMPT	24	16.94	V03542N	1/4 HBxMPT	24	18.81
V03511N	1/4 FPTxFPT	24	16.94	V03512N	1/4 FPTxFPT	24	18.81
V03551N	1/4 FPTxHB	24	16.94	V03522N	1/4 FPTxMPT	24	18.81
				V03552N	1/4 FPTxHB	24	18.81

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

INDUSTRIAL MIP COMPACT VALVE



- Sch 80 Sockets
- Pressure Rating 150 psi (Test Pressure 225 psi)
- Individually Boxed
- NSF - Pw STD 14/61
- 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.	List
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Gray PVC FKM O-Rings, PTFE Seat, Socket Pricing Schedule MIP			
V07692N	1/2	100	\$18.07
V08692N	3/4	100	23.81
V10692N	1	100	33.66
V14692N	1-1/4	100	42.68
V17692N	1-1/2	48	67.63
V20692N	2	24	85.20

Gray PVC FKM O-Rings, PTFE Seat, Threaded Pricing Schedule MIP			
V07792N	1/2	100	\$18.07
V08792N	3/4	100	23.81
V10792N	1	100	33.66
V14792N	1-1/4	100	42.68
V17792N	1-1/2	48	67.63
V20792N	2	24	85.20

Part No.	Size	Ctn. Qty.	List
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Light Gray CPVC FKM O-Rings, PTFE Seat, Socket: Pricing Schedule MIP			
V07694N	1/2	100	\$31.03
V08694N	3/4	100	37.76
V10694N	1	100	53.69
V14694N	1-1/4	100	66.16
V17694N	1-1/2	48	107.86
V20694N	2	24	135.43

Light Gray CPVC FKM O-Rings, PTFE Seat, Threaded: Pricing Schedule MIP			
V07794N	1/2	100	\$31.03
V08794N	3/4	100	37.76
V10794N	1	100	53.69
V14794N	1-1/4	100	66.16
V17794N	1-1/2	48	107.86
V20794N	2	24	135.43

COMMERCIAL GRAY and WHITE MIP (MOLDED-IN-PLACE) BALL VALVE

- Sch 80 Sockets
- Pressure Rating: 150 psi
- Individually Boxed
- NSF-Pw Standard 14/61.
- Replaceable Handle
- 100% Leak-Tested
- NSF-61 Product also Certified to NSF/ANSI 61, Annex G and is in compliance with California's Health & Safety Code Section 116875 (commonly known as AB1953) and Vermont Act 193.



(Test Pressure 225 psi)



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

Part No.	Size	Ctn. Qty.	List
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GRAY PVC w/EPDM: Pricing Schedule MIP			
Socket			
V07691N	1/2	100	\$5.53
V08691N	3/4	100	6.87
V10691N	1	100	9.72
V14691N	1-1/4	100	15.72
V17691N	1-1/2	48	28.29
V20691N	2	24	33.54

White PVC w/EPDM: Pricing Schedule MIP			
Socket			
V07491N	1/2	100	\$5.53
V08491N	3/4	100	6.87
V10491N	1	100	9.72
V14491N	1-1/4	100	15.72
V17491N	1-1/2	48	28.29
V20491N	2	24	33.54
V27491N	2-1/2	12	82.37
V30491N	3	12	135.81
V40491N	4	6	261.64

Part No.	Size	Ctn. Qty.	List
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GRAY PVC w/EPDM: Pricing Schedule MIP			
Threaded			
V07791N	1/2	100	\$5.53
V08791N	3/4	100	6.87
V10791N	1	100	9.72
V14791N	1-1/4	100	15.72
V17791N	1-1/2	48	28.29
V20791N	2	24	33.54

White PVC w/EPDM: Pricing Schedule MIP			
Threaded			
V07591N	1/2	100	\$5.53
V08591N	3/4	100	6.87
V10591N	1	100	9.72
V14591N	1-1/4	100	15.72
V17591N	1-1/2	48	28.29
V20591N	2	24	33.54
V27591N	2-1/2	12	82.37
V30591N	3	12	135.81
V40591N	4	6	261.64

MIP VALVE REPLACEMENT HANDLE KIT

- 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.	List
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Pricing Schedule B			
V07491K	1/2	1	\$.94
V08491K	3/4	1	1.07
V10491K	1	1	1.30
V14491K	1-1/4	1	1.66
V17491K	1-1/2	1	3.54

Part No.	Size	Ctn. Qty.	List
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Pricing Schedule B			
V20491K	2	1	\$4.73
V27491K	2-1/2	1	5.91
V30491K	3	1	9.46
V40491K	4	1	14.19

ECONOMY MIP BALL VALVE

- Max Pressure Rating: 150 psi
- Suitable for Irrigation, Swimming Pool, and other water applications.
- Individually barcoded



Part No.	Size	Ctn. Qty.	List
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White PVC w/ EPDM: Pricing Schedule MIP			
Socket			
V07461N	1/2	100	\$4.81
V08461N	3/4	100	5.88
V10461N	1	100	8.10
V14461N	1-1/4	48	12.99
V17461N	1-1/2	48	18.51
V20461N	2	24	25.50

Part No.	Size	Ctn. Qty.	List
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White PVC w/ EPDM: Pricing Schedule MIP			
Threaded			
V07561N	1/2	100	\$4.81
V08561N	3/4	100	5.88
V10561N	1	100	8.10
V14561N	1-1/4	48	12.99
V17561N	1-1/2	48	18.51
V20561N	2	24	25.50

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

Note: The Economy MIP Series is sold only in master carton quantities.

411N INDUSTRIAL SERIES BUTTERFLY VALVE WITH LOCKING PP LEVER HANDLE



- Full Boot Seal design. Requires no flange gaskets. ANSI Class 150 flange bolt pattern.
- 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 15.

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.

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

Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
PVC/EPDM with PP Disc: Pricing Schedule C				PVC/FKM with PP Disc: Pricing Schedule C			
V20411N	2	4	\$225.48	V20412N	2	4	\$560.00
V27411N	2-1/2	4	239.00	V27412N	2-1/2	4	580.00
V30411N	3	4	242.74	V30412N	3	4	590.00
V40411N	4	4	281.39	V40412N	4	4	730.00
V50411N	5	4	398.46	V60412N	6	4	1,090.00
V60411N	6	4	416.31	V80412N	8	1	1,900.00
V80411N	8	1	707.72				
PVC/BUNA with PP Disc: Pricing Schedule C							
V20415N	2	4	\$225.48				
V27415N	2-1/2	4	239.00				
V30415N	3	4	242.74				
V40415N	4	4	281.39				
V50415N	5	4	398.46				
V60415N	6	4	416.31				
V80415N	8	1	707.72				
CPVC/EPDM with CPVC Disc: Pricing Schedule C				CPVC/FKM with CPVC Disc: Pricing Schedule C			
V20414N	2	4	\$308.76	V20413N	2	4	\$690.00
V27414N	2-1/2	4	327.83	V27413N	2-1/2	4	770.00
V30414N	3	4	357.33	V30413N	3	4	795.00
V40414N	4	4	412.86	V40413N	4	4	1,070.00
V60414N	6	4	610.59	V60413N	6	4	1,690.00
V80414N	8	1	1,037.30	V80413N	8	1	2,850.00

411 N SERIES BUTTERFLY VALVE REPLACEMENT HANDLE



Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
Pricing: Schedule B				Pricing: Schedule B			
V20411K	2	1	\$36.17	V40411K	4	1	\$44.68
V27411K	2-1/2	1	40.43	V60411K	6	1	87.23
V30411K	3	1	38.83	V80411K	8	1	112.77

411 NG SERIES BUTTERFLY VALVE WITH GEAR OPERATOR 2 - 6"

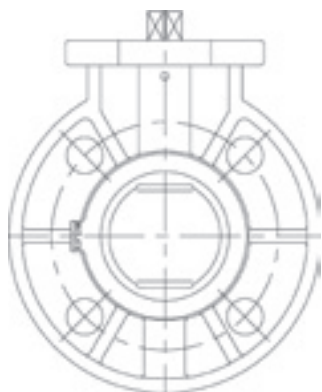
NOTE: For sizes 8 - 24", see page 12

Gear Operator - Corrosion Resistant Aluminum Alloy housing with red oxide primer, cast iron handwheel, and Nitrotec® treated output shaft, 40:1 ratio worm gear, 10 turns to close.

Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
PVC/EPDM with PP Disc: Pricing Schedule C				PVC/FKM with PP Disc: Pricing Schedule C			
V20411NG	2	1	\$ 735.00	V20412NG	2	1	\$965.00
V30411NG	3	1	765.00	V30412NG	3	1	990.00
V40411NG	4	1	815.00	V40412NG	4	1	1,125.00
V60411NG	6	1	975.00	V60412NG	6	1	1,450.00
PVC/BUNA with PP Disc: Pricing Schedule C							
V20415NG	2	1	\$ 735.00				
V30415NG	3	1	765.00				
V40415NG	4	1	815.00				
V60415NG	6	1	975.00				
CPVC/EPDM with CPVC Disc: Pricing Schedule C				CPVC/FKM with CPVC Disc: Pricing Schedule C			
V20414NG	2	1	\$845.00	V20413NG	2	1	\$1,125.00
V30414NG	3	1	875.00	V30413NG	3	1	1,260.00
V40414NG	4	1	950.00	V40413NG	4	1	1,435.00
V60414NG	6	1	1,125.00	V60413NG	6	1	2,050.00

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

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.
- 410 Stainless Steel Stem.

Part No.	Size	ISO Pattern	Sq. Stem (mm on flats)	Qty.	List	Part No.	Size	ISO Pattern	Sq. Stem (mm on flats)	Qty.	List
PVC/EPDM: Pricing Schedule C						PVC/FKM: Pricing Schedule C					
V20411ND	2	F05 & F07	11	1	\$226.00	V20412ND	2	F05 & F07	11	1	\$570.00
V30411ND	3	F05 & F07	14	1	242.55	V30412ND	3	F05 & F07	14	1	600.00
V40411ND	4	F07	14	1	276.60	V40412ND	4	F07	14	1	750.00
V60411ND	6	F07 & F10	17	1	409.57	V60412ND	6	F07 & F10	17	1	1,100.00
V80411ND	8	F10	22	1	657.45	V80412ND	8	F10	22	1	1,400.00
V100411ND	10	F10	22	1	1,119.93						
V120411ND	12	F12	27	1	1,571.48						
CPVC/EPDM: Pricing Schedule C						CPVC/FKM: Pricing Schedule C					
V20414ND	2	F05 & F07	11	1	\$344.11	V20413ND	2	F05 & F07	11	1	\$695.00
V30414ND	3	F05 & F07	14	1	363.81	V30413ND	3	F05 & F07	14	1	800.00
V40414ND	4	F07	14	1	396.64	V40413ND	4	F07	14	1	1,100.00
V60414ND	6	F07 & F10	17	1	580.85	V60413ND	6	F07 & F10	17	1	1,700.00

GEAR OPERATORS FOR V40411ND (DIRECT MOUNT) BUTTERFLY VALVES



Aluminum Gear Operator with Cast Iron Handwheel

Corrosion-resistant Aluminum Alloy housing with red oxide primer, cast iron handwheel and Nitrotec® treated steel output shaft, 40:1 ratio worm gear, 10 turns to close. Weight: 4 lbs.

Pricing Schedule B

Part Number	ISO Mounting	Ctn Qty	List Price	Note
9801-411	F07 & F10	1	\$496.00	Fits ND BFV 2 - 8"

Submersible Gear Operator with Cast Iron Handwheel

Cast iron with red oxide primer. Has blanking cap instead of position indicator, and lip seals. Meets SOL50 - water tight to 25psi. 40:1 ratio worm gear, 10 turns to close. Weight: 10.5 lbs. Valve must be supported.

Pricing Schedule B

Part Number	ISO Mounting	Ctn Qty	List Price	Note
M10-411	F07 & F10	1	\$650.00	Fits ND BFV 2 - 10"
M12-411	F12	1	650.00	Fits ND BFV 12"

2" Operating Nut for M10-411 or M12-411 Gear Operator

Pricing Schedule B

Part Number	Ctn Qty	List Price
VMG411-ON	1	\$196.00

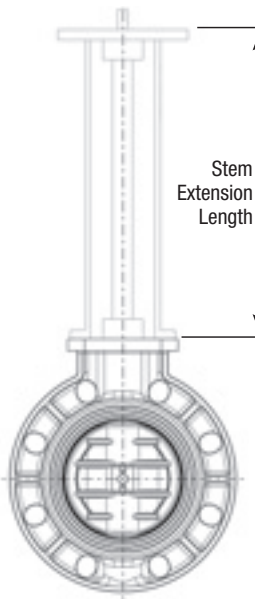
Stem Couplings for Gear Operators (9801 & M10 Type)

Pricing Schedule B

Part Number	Size (mm)	Ctn Qty	List Price
VSC11MG	11	1	\$16.00
VSC14MG	14	1	18.00
VSC17MG	17	1	22.00
VSC22MG	22	1	24.00

BFV STEM EXTENSIONS FOR 411ND AND 711N SERIES BFV

Stem Extensions for the 411ND and 711N Series BFV are fabricated from custom machined PVC flanges and PVC Pipe, with SS stem, couplers, and fasteners.



Top and bottom mounting plates are set up for ISO 5211 mounting. Suitable for Gear Operators or Actuators. Not for lever handle.

Note: To order a completed assembly, use the separate part numbers for the valve and the stem extension.

Also indicate the exact length that you require for the stem extension.

Pricing Schedule B

Length (in)	F07 Mounting		F10 Mounting		F12 Mounting	
	Part No.	List	Part No.	List	Part No.	List
6-12	V411N01	\$595.00	V411N01A	\$595.00	V411N01B	\$595.00
12-24	V411N02	630.00	V411N02A	630.00	V411N02B	630.00
25-48	V411N03	725.00	V411N03A	725.00	V411N03B	725.00
49-84	V411N04	875.00	V411N04A	875.00	V411N04B	875.00
85-108	V411N05	925.00	V411N05A	925.00	V411N05B	925.00
Fits BFV Sizes	2 - 4"		6 - 10"		12"	
Top of Extension Stem-Square Options	11 - 14 mm		17 - 22 mm		27 mm	

Example: Order V60411ND & V411N04A(40) in order to receive a 6" BFV, PVC/EPDM, with a 40" Stem Extension that is set up for ISO 5211, F10 mounting.

Example 2: Order V40411ND & V411N02(24) & 9801-411 in order to receive a 4" BFV, PVC/EPDM, with a 24" Stem Extension, and an Aluminum Gear Operator mounted to the top of the Stem Extension.

Example 3: (Ordering Stem Extension only for field installation) Order V411N03A (48), 17mm Square to receive a 48" stem extension with ISO F10 mounting and a 17mm stem square at the top (male) and bottom (female).

411NG SERIES BUTTERFLY VALVE WITH GEAR OPERATOR: 8 - 12"



8 - 12" Diameter

- Pressure Rating: 150 psi 8, 10"
100 psi 12"
- Full Boot Seal design. Requires no flange gaskets. ANSI Class 150 flange bolt pattern.
- 410 Stainless Steel Stem.
- 411NG Series also available in PP and PVDF. Call customer service for price and availability.
- Standard Gear Operator is cast iron with corrosion-resistant paint and SS fasteners.
- Not submersible.

Large Diameter Butterfly Valves

14 - 24" Diameter

- 411NGP Series 14 - 24" Beige Polypropylene Body and Disc.
- EPDM Liner and o-rings, 316 SS Stem, Cast Iron Gear Operator with 316 SS hardware, ANSI B16.5, Class 150 Bolt Pattern.
- Not submersible.

Pressure rating: 86 psi, 14-16"
72 psi, 18"
51 psi, 20 - 24"

Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
PVC/EPDM: Pricing Schedule C				PVC/FKM: Pricing Schedule C			
V80411NG	8	1	\$1061.29	V80412NG	8	1	\$2,200.00
V100411NG	10	1	1,474.10	V100412NG	10	1	3,600.00
V120411NG	12	1	2,076.84	V120412NG	12	1	4,700.00
Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
CPVC/EPDM: Pricing Schedule C				CPVC/FKM: Pricing Schedule C			
V80414NG	8	1	\$1,318.00	V80413NG	8	1	\$2,900.00
V100414NG	10	1	2,127.80	V100413NG	10	1	4,900.00
V120414NG	12	1	2,944.40	V120413NG	12	1	6,500.00

LARGE DIAMETER POLYPROPYLENE (PP) VALVES 14 - 24"

Part No.	Size	Ctn. Qty.	List
PP/EPDM: Pricing Schedule C			
V140411NGP	14	1	\$4,183.00
V160411NGP	16	1	5,990.00
V180411NGP	18	1	12,265.00
V200411NGP	20	1	18,275.00
V240411NGP	24	1	29,086.00

Pressure ratings are for non-shock water at 73°F.
Butterfly Valve Flange Bolt Kits - Page 15

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.
- Pressure Rating: 150 psi
- ANSI Class 150 Bolt Pattern

Stem extensions can be added to BFV and Gear Operator assemblies. Order stem extension separately.

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

Part No.	Size	Ctn. Qty.	List	Material		
PVC: Pricing Schedule C						
V30311N	3	4	\$254.47	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.		
V40311N	4	4	298.59			
V60311N	6	4	451.79			
Part No.	Size	Ctn. Qty.	List			
REPLACEMENT HANDLE Pricing Schedule B						
V30311K	3	1	\$42.00			
V40311K	4	1	42.00			
V60311K	6	1	49.28			
DIMENSIONS FOR TOP PLATE						
Size	L	J	K		Bolt Plate Circle (PCD)	No. of Holes
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

311NG BUTTERFLY VALVES WITH GEAR OPERATOR



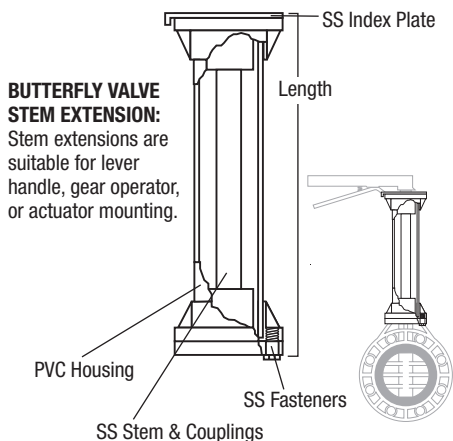
Part No.	Size	List	Description
PVC/EPDM: Pricing Schedule C			
V30311NG	3	\$665.67	High strength corrosion resistant Coated Aluminum Alloy housing with coated cast iron handwheel and Nitrotec [®] treated steel output shaft, 40:1 ratio worm gear, 10 turns to close, mounted to 311N series butterfly valve.
V40311NG	4	703.00	
V60311NG	6	852.30	
*Equivalent to medium grade stainless steel for corrosion-resistance. Gear operator is not submersible.			
Suitable as Isolation valves in irrigation or other water projects. If used in an HDPE piping system, flange spacers and/or chamfered flange adapters may be required. Please contact your HDPE fittings distributor.			

GEAR OPERATORS FOR 311N SERIES BUTTERFLY VALVES 3, 4 AND 6"



Part No.	Size	Ctn. Qty.	List	Description
Pricing Schedule B				
9801-311N-3	3	1	\$496.00	For retrofit: Mounts directly to 311N series BFVs. High strength corrosion resistant Aluminum Alloy housing with coated cast iron handwheel and Nitrotec [®] treated steel output shaft, 40:1 ratio worm gear, 10 turns to close.
9801-311N-4-6	4 & 6	1	496.00	
*Equivalent to medium grade stainless steel for corrosion-resistance. Gear operator is not submersible.				

311N SERIES BUTTERFLY VALVE STEM EXTENSIONS: 3, 4, AND 6"



BUTTERFLY VALVE STEM EXTENSION:
Stem extensions are suitable for lever handle, gear operator, or actuator mounting.

Please specify length when ordering. Pricing Schedule B

Length (in)	FOR 3" BFV		FOR 4" AND 6" BFV	
	Part No.	List	Part No.	List
6-12	V311N301	\$595.00	V311N01	\$595.00
12-24	V311N302	630.00	V311N02	630.00
25-36	V311N303	725.00	V311N03	725.00
37-48	V311N304	800.00	V311N04	800.00
49-60	V311N305	875.00	V311N05	875.00
61-72	V311N306	925.00	V311N06	925.00
73-84	V311N307	975.00	V311N07	975.00
85-96	V311N308	1,075.00	V311N08	1,075.00
97-108	V311N309	1,185.00	V311N09	1,185.00

Note: To order a completed assembly, use the separate part numbers for the valve and the stem extension. Also indicate the exact length that you require for the stem extension.

Gear Operated Example: Order V40311NG & V311N02 (24) in order to receive a 4 BFV with 24" Stem Extension, with Gear Operator mounted to the top of the Stem Extension.

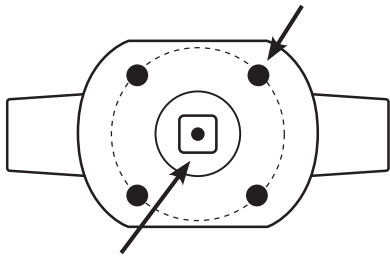
Lever Handle Example: Order V40311N & V311N02 (24) in order to receive a 4 BFV with 24" Stem Extension, with Lever Handle and Index Plate mounted to top of Stem Extension.

Pressure ratings are for non-shock water at 73°F.
Butterfly Valve Flange Bolt Kits - Page 15

"NEW" 711N SERIES COMMERCIAL BUTTERFLY VALVE



PCD (Pitch Circle Diameter)



Stem Square Dimension and Stem Height Dimension

Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
PVC / EPDM, 316 SS Stem, Blue ABS Lever Handle: Pricing Schedule C				711N Series Replacement Handles: Pricing Schedule B			
V30711N	3	10	\$169.40	V30711K	3	1	\$36.00
V40711N	4	8	196.70	V40711K	4	1	40.00
V60711N	6	4	291.20	V60711K	6	1	46.00
V80711N	8	3	494.90	V80711K	8	1	56.00

- ANSI class 150 Bolt Pattern
- Full boot EPDM seal, requires no gaskets
- Lightweight, corrosion resistant plastic construction. Six position PVC index plate.
- Pressure rating, 3 - 6" 150 psi, 8" 100 psi
- Designed for swimming pool, pond, irrigation, and other water applications.

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

711 Series Top Dimensions:

Size	Bolt PCD	Stem SQ*	Stem Height*
3	70 mm (F07)	13.5 mm	28.7 mm
4	70 mm (F07)	13.5 mm	28.7 mm
6	102 mm (F10)	17.8 mm	45 mm
8	102 mm (F10)	17.8 mm	45 mm

* Stem dimensions do not comply with ISO 5211. Custom stem couplings and brackets must be fabricated in order to use 711 Series BFVs with gear operators or actuators.

Contact Customer Service for pricing.

Stem Extensions are available for the 711 Series BFV, for use with a gear operator or actuator. See the table at the top of page 12.

(Order valve, stem extension, and gear operator or actuator as separate line items. Contact Customer Service for assistance.)

BUTTERFLY VALVE FLANGE BOLT SETS



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

- Offered in 304 SS, 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.

Butterfly Valve Size		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		

Part No.	Valve Size	WGT. (lbs.)	List
Pricing Schedule B			
Galvanized for BFV			
V30BFKG	2 & 3"	2.75	\$24.63
V40BFKG	4"	5.75	50.78
V60BFKG	6"	9.30	85.00
V80BFKG	8"	11.60	88.96
V100BFKG	10"	25.31	222.59
V120BFKG	12"	26.26	238.89
Zinc Plated for BFV			
V30BFKZ	2 & 3"	2.70	\$18.00
V40BFKZ	4"	5.30	32.00
V60BFKZ	6"	9.30	80.00
V80BFKZ	8"	10.55	81.00
V100BFKZ	10"	24.31	200.00
V120BFKZ	12"	25.50	215.00
304 Stainless for BFV			
V30BFKS	2 & 3"	2.70	\$58.00
V40BFKS	4"	5.70	132.00
V60BFKS	6"	9.25	240.00
V80BFKS	8"	10.40	254.00
V100BFKS	10"	25.20	620.00
V120BFKS	12"	27.26	690.00

"NEW" BUTTERFLY VALVE/FLANGE CONTRACTOR KIT



"NEW" 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 Kit Type	List
Kit to Include 411N Series PVC/EPDM BFV With Molded Polypro Lever Handle				
Pricing Schedule K				
KIT20411G	2	411	Galvanized	\$266.19
KIT20411Z	2	411	Zinc	258.17
KIT20411S	2	411	Stainless	306.59
KIT30411G	3	411	Galvanized	\$295.64
KIT30411Z	3	411	Zinc	287.62
KIT30411S	3	411	Stainless	336.04
KIT40411G	4	411	Galvanized	\$374.89
KIT40411Z	4	411	Zinc	350.16
KIT40411S	4	411	Stainless	471.21
KIT60411G	6	411	Galvanized	\$572.06
KIT60411Z	6	411	Zinc	562.43
KIT60411S	6	411	Stainless	711.85
KIT80411G	8	411	Galvanized	\$871.22
KIT80411Z	8	411	Zinc	866.71
KIT80411S	8	411	Stainless	1,145.25
See complete kit description at left.				

Part No.	Size	BFV Series	Bolt Kit Type	List
Kit to Include 311N Series PVC/EPDM BFV With Coated Metal Steel Lever Handle				
Pricing Schedule K				
KIT30311G	3	311	Galvanized	\$307.00
KIT30311Z	3	311	Zinc	298.98
KIT30311S	3	311	Stainless	347.40
KIT40311G	4	311	Galvanized	\$389.54
KIT40311Z	4	311	Zinc	366.81
KIT40311S	4	311	Stainless	487.86
KIT60311G	6	311	Galvanized	\$606.42
KIT60311Z	6	311	Zinc	596.79
KIT60311S	6	311	Stainless	806.21
Kit to include 711N Series PVC/EPDM BFV with molded Blue ABS Lever Handle				
Pricing Schedule K				
KIT30711G	3	711	Galvanized	\$262.00
KIT30711Z	3	711	Zinc	224.00
KIT30711S	3	711	Stainless	273.00
KIT40711G	4	711	Galvanized	\$330.00
KIT40711Z	4	711	Zinc	306.00
KIT40711S	4	711	Stainless	427.00
KIT60711G	6	711	Galvanized	\$510.00
KIT60711Z	6	711	Zinc	500.00
KIT60711S	6	711	Stainless	650.00
KIT80711G	8	711	Galvanized	\$775.00
KIT80711Z	8	711	Zinc	771.00
KIT80711S	8	711	Stainless	1,049.00

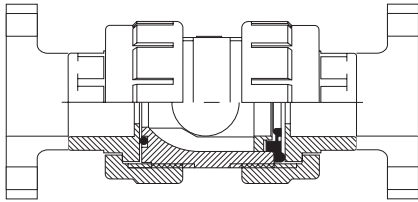
Pressure ratings are for non-shock water at 73°F.

TRUE UNION BALL CHECK VALVE



- Pressure Rating: 235 psi
- Strainer screen can be added (see next section)
- If installing a Ball Check Valve horizontally, a minimum of 5 psi (12' of head) back pressure is needed to maintain seat closure.
- 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.	List	Part No.	Size	Ctn. Qty.	List
PVC/EPDM: Pricing Schedule A				CPVC/FKM: Pricing Schedule A			
Socket and Thread End Connectors				Socket and Thread End Connectors			
V07271ST	1/2	144	\$54.90	V07273ST	1/2	144	\$90.33
V08271ST	3/4	108	65.47	V08273ST	3/4	108	107.93
V10271ST	1	48	77.84	V10273ST	1	48	127.32
V14271ST	1-1/4	24	113.70	V14273ST	1-1/4	24	219.10
V17271ST	1-1/2	24	130.59	V17273ST	1-1/2	24	219.10
V20271ST	2	24	178.27	V20273ST	2	24	293.72
PVC/FKM: Pricing Schedule A				CPVC/EPDM: Pricing Schedule A			
Socket and Thread End Connectors				Socket and Thread End Connectors			
V07272ST	1/2	144	\$61.88	V07274ST	1/2	144	\$81.14
V08272ST	3/4	108	69.10	V08274ST	3/4	108	97.13
V10272ST	1	48	86.79	V10274ST	1	48	114.59
V14272ST	1-1/4	24	127.59	V14274ST	1-1/4	24	197.36
V17272ST	1-1/2	24	144.91	V17274ST	1-1/2	24	197.36
V20272ST	2	24	198.23	V20274ST	2	24	264.29
PVC/EPDM: Pricing Schedule A				PVC/FKM: Pricing Schedule A			
Flanged				Flanged			
V07271NF	1/2	1	\$67.50	V07273NF	1/2	1	\$109.80
V08271NF	3/4	1	81.90	V08273NF	3/4	1	133.20
V10271NF	1	1	97.20	V10273NF	1	1	154.80
V14271NF	1-1/4	1	119.70	V14273NF	1-1/4	1	262.80
V17271NF	1-1/2	1	165.60	V17273NF	1-1/2	1	283.50
V20271NF	2	1	234.00	V20273NF	2	1	430.20
PVC/FKM: Pricing Schedule A				CPVC/EPDM: Pricing Schedule A			
Flanged				Flanged			
V07272NF	1/2	1	\$84.60	V07274NF	1/2	1	\$88.20
V08272NF	3/4	1	101.70	V08274NF	3/4	1	105.30
V10272NF	1	1	118.80	V10274NF	1	1	125.10
V14272NF	1-1/4	1	155.70	V14274NF	1-1/4	1	212.40
V17272NF	1-1/2	1	180.00	V17274NF	1-1/2	1	226.80
V20272NF	2	1	239.40	V20274NF	2	1	401.40

Note: For 2-1/2", 3" & 4" Ball Check Valves - See Page 17
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.	List	Part No.	Size	Ctn. Qty.	List
PVC: Pricing Schedule A				CPVC: Pricing Schedule A			
V07271P	1/2	1	\$14.19	V07273P	1/2	1	\$21.28
V08271P	3/4	1	18.91	V08273P	3/4	1	28.37
V10271P	1	1	22.46	V10273P	1	1	33.10
V17271P	1-1/4 & 1-1/2	1	30.73	V17273P	1-1/4 & 1-1/2	1	46.11
V20271P	2	1	40.19	V20273P	2	1	60.33

FIPT END PIECE FOR TRUE UNION BALL CHECK VALVE



- Pressure Rating: 150 psi

Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
PVC: Pricing Schedule B				CPVC: Pricing Schedule B			
Threaded				Threaded			
V07271Z	1/2	1	\$3.10	V07273Z	1/2	1	\$5.66
V08271Z	3/4	1	3.38	V08273Z	3/4	1	6.27
V10271Z	1	1	4.21	V10273Z	1	1	7.63
V14271Z	1-1/4	1	5.93	V14273Z	1-1/4	1	11.04
V17271Z	1-1/2	1	5.93	V17273Z	1-1/2	1	11.04
V20271Z	2	1	7.04	V20273Z	2	1	12.72

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

SINGLE UNION BALL CHECK VALVE WITH VITON® SEATS



- Pressure Rating:
PVC and CPVC
235 psi 1/2 - 2"
150 psi 2-1/2 - 4"

- 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

Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
PVC: Pricing Schedule A				CPVC: Pricing Schedule A			
Socket				Socket			
V07222B	1/2	24	\$48.52	V27224B	2-1/2	8	\$483.33
V08222B	3/4	24	58.69	V30224B	3	4	544.69
V10222B	1	24	75.94	V40224B	4	4	948.89
V17222B	1-1/2	12	124.31				
V20222B	2	6	181.47				
V27222B	2-1/2	8	438.89				
V30222B	3	4	507.11				
V40222B	4	4	583.33				
Threaded							
V08232B	3/4	24	\$58.69				

NOTE: See page 16 for PVC and CPVC True Union Ball Check Valves 1/2" - 2" with SOC and THD end connections.

FOOT VALVE STRAINER FOR SINGLE UNION BALL CHECK

- Pressure Rating: 150 psi

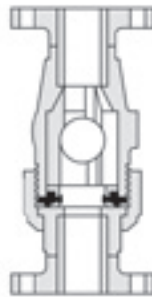
Shown assembled with Single Union Ball Valve.
(sold separately)



Part No.	Size	Ctn. Qty.	List	
PVC: Pricing Schedule A				
V08221P	3/4	1	\$18.91	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.
V10221P	1	1	22.46	
V14221P	1-1/4	1	28.37	
V17221P	1-1/2	1	28.27	
V20221P	2	1	30.73	

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.	List	Part No.	Size	Ctn. Qty.	List
PVC/VITON: Pricing Schedule A				CPVC/VITON: Pricing Schedule A			
Soc x Soc				Soc x Soc			
V27242B	2-1/2	1	\$580.00	V27244B	2-1/2	1	\$770.00
V30242B	3	1	790.00	V30244B	3	1	960.00
V40242B	4	1	990.00	V40244B	4	1	1,400.00

SWING CHECK VALVE

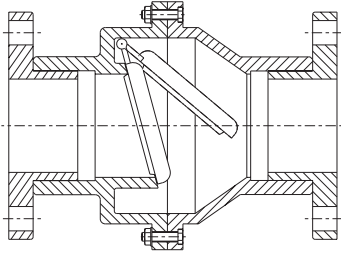


- White Type –**
Permanently bonded two-piece body design, with EPDM hinge and seal, weighted with PVC disc. Limited sizes available.
- Gray Type –** Two-piece body design joined with 304 SS fasteners, and an EPDM gasket. This valve can be disassembled for service. PVC hinge mechanism in sizes 3/4 - 2". 304SS hinge mechanism in sizes 2-1/2 - 4". 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, making the swing check valve a favorable choice for sewage lift stations, waste disposal lines, and irrigation piping.

Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
White PVC/EPDM: Pricing Schedule A				White PVC/EPDM: Pricing Schedule A			
Soc x Soc				FIPT X FIPT			
V10611N	1	80	\$15.21	V20621N	2	30	\$25.60
V14611N	1-1/4	60	15.81				
Gray PVC/EPDM: Pricing Schedule A							
Soc x Soc with S.S. Fasteners							
V08611G	3/4	108	\$16.00				
V10611G	1	72	17.60				
V17611G	1-1/2	30	24.00				
V20611G	2	24	29.60				
V27611N	2-1/2	16	69.00				
V30611N	3	8	85.00				
V40611N	4	6	165.00				

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

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

Part No.	Size	Ctn. Qty.	List
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PVC/EPDM: Pricing Schedule A

V17611NF	1-1/2	1	\$69.00
V20611NF	2	1	119.00
V30611NF	3	1	235.00
V40611NF	4	1	545.00

Gravity-based closure (no spring). The open position allows for unobstructed continuous flow with minimal head loss, making the swing check valve a favorable choice for sewage lift stations, waste disposal lines, and irrigation piping.

SPRING CHECK VALVES

- Pressure Rating: 150 psi
- T x T version available – special order – contact customer service for price and lead-time.



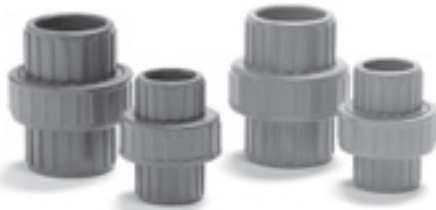
Part No.	Size	Ctn. Qty.	List
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PVC/EPDM: Pricing Schedule A

Soc x Soc			
V07221B	1/2	10	\$9.60
V08221B	3/4	10	10.31
V10221B	1	8	15.26
V14221B	1-1/4	6	20.41
V17221B	1-1/2	6	21.04
V20221B	2	4	25.34

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

PVC & CPVC SCH 80 UNION



- Pressure Rating: 235 psi 1/2" - 2"
150 psi 2-1/2" - 4"

Part No.	Size	Ctn. Qty.	List
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PVC SOC x SOC w/VITON®:

See discount category: Unions

857-005	1/2	10/160	\$12.17
857-007	3/4	10/160	15.46
857-010	1	10	17.63
857-015	1-1/2	10	39.68
857-020	2	10	53.79
857-030	3	5	100.16
857-040	4	5	*

CPVC SOC x SOC w/VITON®:

See discount category: Unions

1857-005	1/2	10/160	\$27.17
1857-007	3/4	10/160	28.38
1857-010	1	10/80	34.06
1857-015	1-1/2	10	70.18
1857-020	2	10	116.33
1857-040	4	5	*

PVC FPT x FPT w/VITON®:

See discount category: Unions

858-005	1/2	10	\$14.42
858-007	3/4	10	20.18
858-010	1	10	26.86
858-015	1-1/2	10	63.40
858-020	2	10	97.57
858-025	2-1/2	10	160.32
858-030	3	5	246.54

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

See discount category: Unions

897-005	1/2	10/160	\$11.99
897-007	3/4	10/160	15.26
897-010	1	10	17.47
897-015	1-1/2	10	39.18
897-020	2	10	53.16
897-030	3	5	98.91
897-040	4	5	*

CPVC SOC x SOC w/EPDM:

See discount category: Unions

1897-005	1/2	10	\$27.08
1897-007	3/4	10	28.04
1897-010	1	10	33.60
1897-015	1-1/2	10	69.33
1897-020	2	10	114.90
1897-030	3	5	238.47
1897-040	4	5	*

PVC FPT x FPT w/EPDM:

See discount category: Unions

898-005	1/2	10	\$14.23
898-007	3/4	10	19.92
898-010	1	10	26.50
898-015	1-1/2	10	62.60
898-020	2	10	96.36

* Contact Customer Service for pricing.

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

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
PVC w/EPDM O-RINGS: Pricing Schedule B			
Socket			
V07281B	1/2	24	\$49.59
V08281B	3/4	24	55.38
V10281B	1	24	61.17
V14281B	1-1/4	12	110.77
V17281B	1-1/2	12	110.77
V20281B	2	9	139.09

Part No.	Size	Ctn. Qty.	List
CPVC w/VITON® O-RINGS*: Pricing Schedule B			
Socket			
V07284B	1/2	24	\$105.36
V08284B	3/4	24	116.86
V10284B	1	24	150.90
V14284B	1-1/4	12	235.71
V17284B	1-1/2	12	235.71
V20284B	2	9	301.79

* Select sizes available in CPVC.
Contact Customer Service for availability.

Y-STRAINER REPLACEMENT CARTRIDGE

Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List	Part No.	Size	Ctn. Qty.	List
PVC 20 MESH (SS SCREEN): Pricing Schedule B				PVC 40 MESH (SS SCREEN): Pricing Schedule B				PVC 20 MESH (PP SCREEN): Pricing Schedule B			
V07281BM	1/2	1	\$12.24	V07281B0	1/2	1	\$12.24	V07281PM	1/2	1	\$12.24
V08281BM	3/4	1	16.32	V08281B0	3/4	1	16.32	V08281PM	3/4	1	16.32
V10281BM	1	1	20.40	V10281B0	1	1	20.40	V10281PM	1	1	20.40
V17281BM	1-1/2 & 1-1/4	1	24.47					V17281PM	1-1/2 & 1-1/4	1	24.47
V20281BM	2	1	32.62					V20281PM	2	1	32.62
CPVC 20 MESH (SS SCREEN): Pricing Schedule B				CPVC 40 MESH (SS SCREEN): Pricing Schedule B				CPVC 20 MESH (PP SCREEN): Pricing Schedule B			
V07284BM	1/2	1	\$24.47	V07284B0	1/2	1	\$24.47	V07284PM	1/2	1	\$24.47
V08284BM	3/4	1	32.62	V08284B0	3/4	1	32.62	V08284PM	3/4	1	32.62
V10284BM	1	1	40.78	V10284B0	1	1	40.78	V10284PM	1	1	40.78
V17284BM	1-1/2 & 1-1/4	1	50.04	V17284B0	1-1/2 & 1-1/4	1	50.04	V17284PM	1-1/2 & 1-1/4	1	50.04
V20284BM	2	1	65.24	V20284B0	2	1	65.24	V20284PM	2	1	65.24

Note: 20 mesh Stainless Steel screens have a square opening 0.032"
20 mesh Polypropylene screens have a square opening 0.028"
40 mesh Stainless Steel screens have a square opening 0.016"

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.

ACTUATED VALVES



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

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 corrosion-resistant technopolymer actuators from Bonomi/Valbia (Electric), and Max-Air (Pneumatic), and cast aluminum actuators from Valvsys (Electric) and Max-Air (Pneumatic). Actuators 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?
 Heater for outdoor use required?
 4-20 mA positioner needed?
 Extra limit switches / position indicators needed?
 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?

Bonomi 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 deg F.
- Battery activated Fail-Safe accessory available.
- Available 24V or 115 VAC

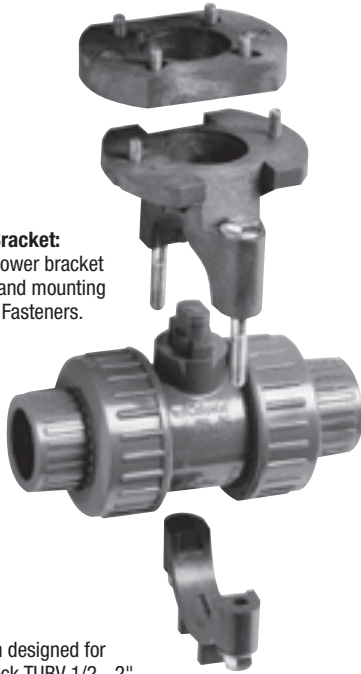
MaxAir Pneumatic Actuator features:

- Housing constructed of self-extinguishing, corrosion-resistant technopolymer material for Ball Valve sizes 1/2" - 2".
- Anodized Aluminum housing for valve sizes 3 & 4".
- Stainless Steel fasteners.
- 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.
- Supply: Air (lubricated if possible), min 40 psi and max 120 psi.

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

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

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

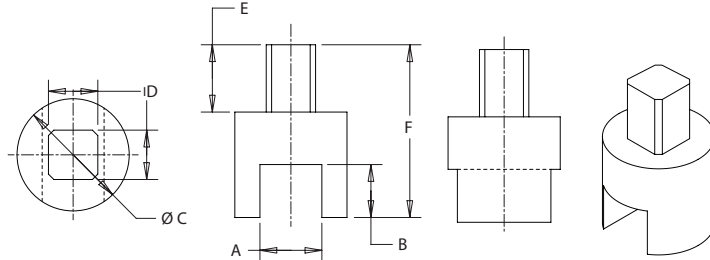


Plastic Bracket:
Upper & lower bracket sections and mounting plate. SS Fasteners.

- Custom designed for Full Block TUBV 1/2 - 2".
- Molded from fibreglas-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 B

Part No.	For Valve Size	ISO Pattern	List
V07501A	1/2	F04	\$35.11
V08501A	3/4	F04	38.30
V10501A	1	F04/5	40.43
V14501A	1-1/4	F05	44.68
V17501A	1-1/2	F05	44.68
V20501A	2	F05	47.87



SS STEM COUPLINGS: Pricing Schedule B

SIZE	A	B	C	D	E	F	ISO	PART NUMBER	List
1/2"	.320	.335	1.00	.430	.500	1.440	F04	V07502A	\$38.00
3/4"	.380	.390	1.00	.430	.500	1.410	F04	V08502A	38.00
1"	.440	.450	1.00	.430	.500	1.490	F04	V10502A	39.00
1-1/2"	.560	.570	1.25	.550	.629	1.740	F05	V17502A	40.00
1-1/4"	.560	.570	1.25	.430	.500	1.490	F04	V17502A-F04	40.00
2"	.690	.575	1.25	.550	.629	1.920	F05	V20502A	40.00
2"	.690	.575	1.25	.430	.500	1.65	F04	V20502A-F04	40.00

BRACKET FOR 3" & 4" TRUE UNION BALL VALVES

Stainless Steel Type



Shown with pneumatic actuator (not included)

Provides a secure fixture for electric and pneumatic actuators. Bracket is manufactured of Stainless Steel, with Stainless Steel fasteners. Comes standard with ISO 5211 F07 (2.75" bolt circle) mounting pattern and stem coupling with .67"/17mm square output.

Pricing Schedule C

Part No.	Size	List
V30501A	3	\$475.00
V40501A	4	\$475.00

ISO 5211 F07

PVC Pedestal Type Mounting Bracket



Constructed of PVC material, this bracket features a mounting pad with a PCD of 102mm (ISO 5211 F10), and a 17mm square stem coupling. The valve and mounting bracket are ordered and invoiced as separate line items, but will be shipped pre-assembled. The bracket is solvent-cemented to the valve at the factory, for a permanent, durable assembly.

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 vertical installation (valve stem / actuator facing UP), not for horizontal (valve stem/actuator facing to the side) applications.

Pricing Schedule C

Part No.	Size	List*
V30501P	3	\$180.00
V40501P	4	\$180.00

ISO 5211 F10

* For Bracket Only. Valve Ordered Separately.

Torque Values For Full Block True Union Ball Valves

Valve Size	Opening Torque (In-Lbs)
1/2"	5
3/4"	35
1"	60
1-1/4"	100
1-1/2"	110
2"	180
2-1/2"	600
3"	600
4"	1,000

NOTE:
Mounting hardware not included.
Requires (4) flat washers and bolts of 1.75" length.

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

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-4 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:

LASCO Fittings, Inc.	(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/html/valves_and_piping.html.

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

MATERIALS FOR O-RINGS AND VALVE SEATS

EPDM: Ethylene Propylene Diene Monomer

EPDM Rubber is an elastomer prepared from ethylene and propylene monomers and at times with a small amount of a third monomer. It has excellent tear and abrasion resistance and is chemically resistant to a large variety of acids, alkalis, alcohol, and oxidants. EPDM has a temperature range of -65 to +300°F * for most applications.

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.

Viton®, FPM, FKM Fluorocarbon Rubber / Elastomer

Fluorocarbon elastomers were first introduced in the mid 1950's. Since then they have grown to major importance in the seal industry. Due to its wide spectrum chemical compatibility and temperature range and its low compression set, fluorocarbon rubber is the most significant single elastomer development in recent history. Its working temperature range is considered to be -15 to + 400°F *.

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.

FPM is the international abbreviation according to DIN/ISO, whereas FKM is the short form for the fluoroelastomer category according to the American standard ASTM. 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.

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

*Beyond the range of thermoplastic valve body and ball materials.

TEFLON® PTFE Fluorocarbon Polytetrafluoroethylene

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

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

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: Freight is prepaid on orders of \$500.00 for any mix. Otherwise, freight terms are F.O.B. point of origin.

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 and the invoice.

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



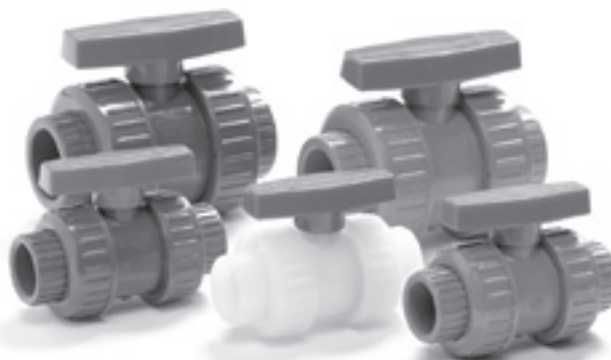
411N BUTTERFLY VALVES



BUTTERFLY VALVES
(8-24")



MIP VALVES
(1/2 - 4")



FULL BLOCK™ INDUSTRIAL TRUE UNION BALL VALVES



TRUE UNION BALL CHECK VALVES



SPRING CHECK VALVES & SWING CHECK VALVES



Y-LINE STRAINERS



ACTUATED VALVES



COMMERCIAL TRUE UNION BALL VALVES

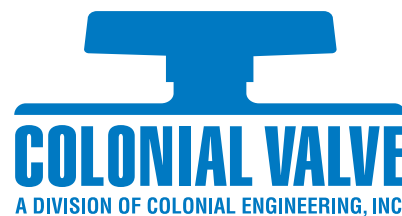
Colonial Valve proudly serves wholesalers in the industrial PVF, process piping, water treatment, pool/spa, commercial plumbing, and irrigation markets.

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.



Proven Performance Since 1982