

Features and Benefits

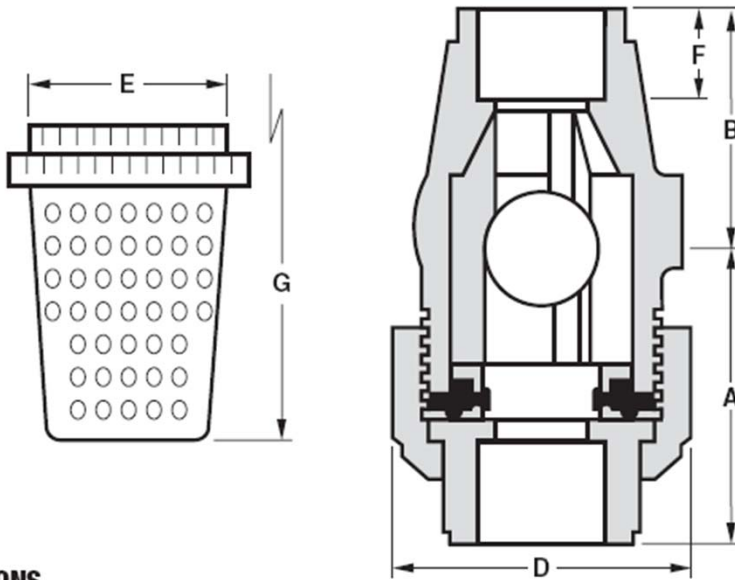
- 100% thermoplastic design resists process and atmospheric corrosion.
- Single union design permits a separation point in the piping system for maintenance.
- Not for use with slurries
- Prevents backflow in piping systems. Installed to protect pumps, filters, and other process equipment from damage. Also effective at preventing liquid storage tanks from unwanted drain-down.
- This valve can be installed in the vertical position (for upward flow), or horizontally, providing that there is a minimum of 5 psi (12 feet of head pressure) of backflow to properly seat the ball.

SAMPLE ENGINEERING SPECIFICATIONS

Thermoplastic ball check valves shall be of single union design and produced of PVC type 1, cell class 12454 or CPVC type IV, cell class 23447. Seat shall be of FKM material. Colonial Single Union Ball Check series.



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Temperature / pressure de-rating

Temp (°F)	PVC	CPVC
73	1.00	1.00
80	0.88	0.96
90	0.75	0.92
100	0.62	0.85
110	0.50	0.77
120	0.40	0.70
130	0.30	0.62
140	0.22	0.55
150	NR	0.47
160	NR	0.40
170	NR	0.32
180	NR	0.25
200	NR	0.18
210	NR	0.15
220	NR	NR

DIMENSIONS
Slip X Slip

	1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"
A	2.250	2.688	2.938	3.625	4.000	6.450	6.350	7.580
B	1.625	1.969	2.094	2.438	3.188	4.200	4.000	5.050
D	2.000	2.500	2.813	3.750	4.188	6.300	6.300	8.860
E	2.375	2.875	3.281	4.281	4.781	NA	NA	NA
F	0.938	1.000	1.156	1.406	1.813	1.750	1.875	2.250
G	3.875	4.688	5.031	16.531	7.813	NA	NA	NA

Part numbers & material choices

Size	PVC/FKM SxS	PVC/FKM TxT	CPVC/FKM SxS	Pressure rating*
1/2	V07222B	V07232B		235
3/4	V08222B	V08232B		235
1	V10222B	V10232B		235
1-1/2	V17222B			235
2	V20222B			235
2-1/2	V27222B		V27224B	100
3	V30222B		V30224B	100
4	V40222B		V40224B	100

*non-shock water at 73°F



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.

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