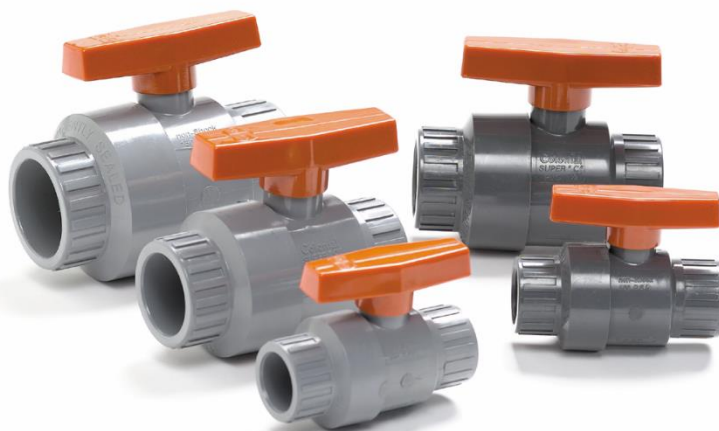


- Ideally suited for the most demanding industrial, commercial plumbing, aquatic, or irrigation environments, the Super C is permanently sealed at the factory and is maintenance-free.
- 100% thermoplastic design eliminates process and atmospheric corrosion.
- Full Port Sch 80 in sizes ½ - 1-1/2". 2" size is Standard Port.
- Unique "live-load" floating seat-carrier design provides long service-life, lower torque and smooth turning action.
- Dual stem o-rings. The stem is designed to shear above the secondary o-ring under excessive force. This is an important safety feature.
- Two stem-stops for positive shut-off. Floating ball design for pressure-assisted sealing downstream.
- 100% tested for a bubble-tight seal.
- Suitable for Vacuum service to 26 in Hg
- Pressure rating: 235 psi non-shock water at 73°F, per ASTM F-1970.
- Socket dimensions meet all ASTM requirements: PVC D-2467, D-2464; CPVC F-439, F437
- Available in PVC and CPVC. Certified to NSF/ANSI 61-G & 372



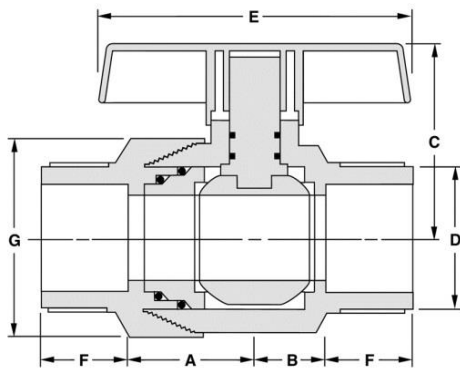
**SAMPLE ENGINEERING SPECIFICATIONS:** All thermoplastic Ball Valves ½ - 2" shall be Schedule 80, and shall be produced of PVC Type I, cell class 12454 or CPVC Type IV, cell class 23447 material. O-rings shall be made of EPDM or Viton® FKM material. Valves seats shall be made of PTFE material. Valves shall meet ASTM standard F-1970 for a pressure rating of 235psi at 73°F. Valves shall have internal live-load seat-carrier for maximum seat-life. End connectors shall be of socket or thread type.



Do not use with compressed air or gas

REV 070120 – Special order CPVC TxT in sizes 1 – 2"

**CUSTOMER SERVICE:** 6400 Corporate Ave., Portage, MI 49002  
 Toll-free (800)374 0234, Phone (269)323 2495, Fax (269) 323 0630 [www.colonialengineering.com](http://www.colonialengineering.com)



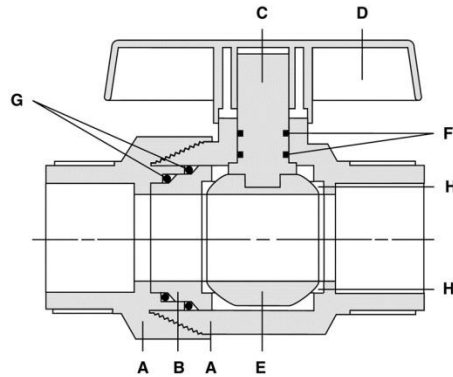
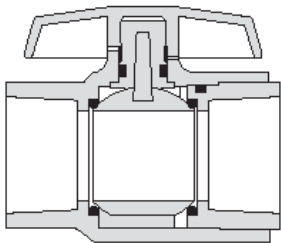
Size	A	B	C	D	E	F	G	H*
1/2"	1-7/32"	10/16"	1-7/8"	1-11/32"	3-7/32"	7/8"	1-25/32"	3-5/8"
3/4"	1-14/32"	3/4"	2-11/32"	1-9/16"	3-7/16"	1"	2-7/32"	4-7/32"
1"	1-9/16"	31/32"	2-5/8"	1-7/8"	4"	1-1/8"	2-17/32"	4-13/16"
1-1/4"	2-1/4"	1-5/16"	3-1/2"	2-19/32"	5"	1-1/4"	3-1/2"	6-1/16"
1-1/2"	2-1/8"	1-5/16"	3-1/2"	2-19/32"	5"	1-3/8"	3-1/2"	6-1/16"
2"	2-3/16"	1-7/16"	3-7/8"	3-1/8"	5"	1-1/2"	4-3/16"	6-5/8"

- \* H = Overall Length
- Dimensions are same for SxS and TxT version

### THE SUPER C ADVANTAGE

Colonial Super C Compact Ball Valves feature "end over body" design. The end piece is permanently sealed over the body, compared to a typical plastic compact valve (shown below left) in which the end piece is joined inside the body. If the valve becomes subjected to high pressure/temperature conditions, the body may expand away from the end piece, resulting in a failure. With Colonial's exclusive design, an expanding body will be contained by the end piece, resulting in a longer-lasting, safer performance.

Another advantage is Colonial's live-load carrier design, which self-compensates for seat-wear over the service life of the valve. In the typical compact valve design, the carrier is fixed, so when seat-wear first occurs, the valve must be replaced.



### Typical Compact Valve:

- End piece is connected into the body
- Carrier is fixed

### Colonial Super C Valve:

- End piece is sealed OVER the body (A)
- Two stem o-rings (F)
- Exclusive floating carrier design (B)

LETTER	COMPONENT	QTY	MATERIAL
A	Body/End Piece	1	PVC, CPVC
B	Floating Carrier	1	PVC, CPVC
C	Stem	1	PVC, CPVC
D	Handle	1	ABS
E	Ball	1	PVC, CPVC
F	Stem O-Rings	2	EPDM, Viton®
G	Carrier O-Rings	2	EPDM, Viton®
H	Seats	2	PTFE

De-rate pressure for elevated process temps per the chart below:

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

### Part Numbers

Size	Style	PVC/EPDM	CPVC/Viton®
		O-Rings	O-Rings
1/2"	Socket	V07191N	V07194N
1/2"	Thread	V07201N	V07204N
3/4"	Socket	V08191N	V08194N
3/4"	Thread	V08201N	V08204N
1"	Socket	V10191N	V10194N
1"	Thread	V10201N	V10204N*
1-1/4"	Socket	V17191N	V14194N
1-1/4"	Thread	V14201N	V14204N*
1-1/2"	Socket	V17191N	V17194N
1-1/2"	Thread	V17201N	V17204N*
2"	Socket	V20191N	V20194N
2"	Thread	V20201N	V20204N*

Note: For sizes 2-1/2, 3, & 4", see Colonial 191 Two-piece Sch 80 Compact valve (separate submittal)

\* CPVC 1-1/4, 1-1/2 & 2" TxT are special order. Contact Customer Service for Min Qty and lead-time

