

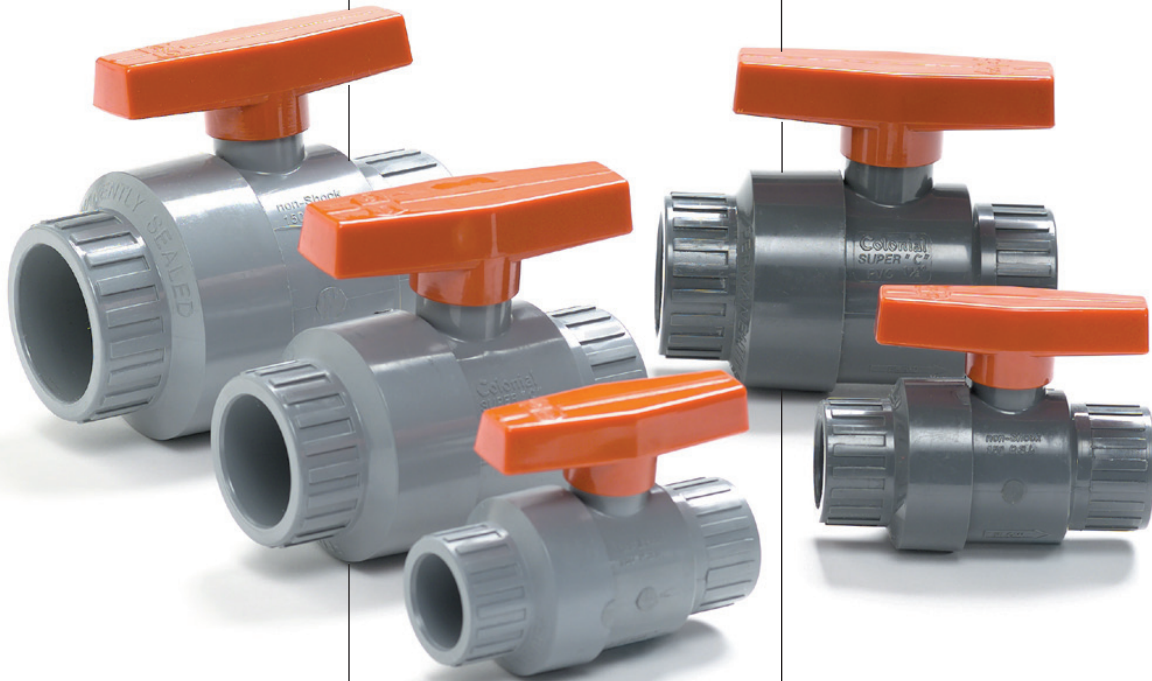
When compared with other brands of compacts, the Colonial Super C is in a class by itself. It utilizes the same ball and stem as our True Union valve. This means it has the same robust stem diameter and two stem o-rings as the True Union. It is the only compact valve with a separate and independent floating carrier. This provides the valve with the longest turning life and lowest torque on the market. As the seat and ball wear, the floating carrier automatically moves forward to provide a positive seal, a live-load design.

Ideally suited for the most demanding industrial, commercial, agricultural and irrigation environments, the Super C is permanently sealed at the factory and is maintenance-free.

FEATURES AND BENEFITS

- Available with PVC or CPVC body; EPDM or Viton® o-rings.
- ABS handle available in a variety of colors.
- Floating ball design for high pressure, permanent seal.
- Two stem o-rings for double leak protection.
- Unique floating carrier design provides the longest turning life, lowest torque and smoothest turning on the market.
- Full port design (same I.D. as Sch 80 pipe) produces minimum turbulence at high flow rates.
- Teflon® ball seats.
- Larger stem design reduces the chance of stem breakage.
- Two stem stops for positive shut off.

- Pressure rating: 235 psi, non-shock water at 73° F.
- 100% thermoplastic design eliminates process or atmospheric corrosion.
- 1/2 through 2" sizes available.
- Available in Sch 80 socket or FPT (female pipe thread).
- Socket and threads meet dimensional requirements of ASTM D-2467, D-2464, F-439 and F-437.
- Designed and engineered in the U.S.A.



COMPRESSED AIR WARNING

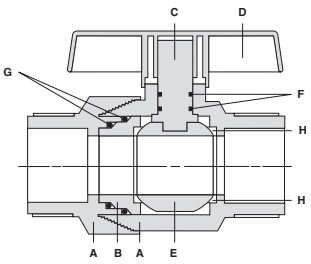
The products in this document are only intended for use in transferring or storing chemically compatible pressurized liquids. Do not test or use products in this document with compressed air or other gases. Doing so is dangerous and could cause injury or great bodily harm should a system fail under compressed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

Printed in USA 11/09

SAMPLE ENGINEERING SPECIFICATIONS

All thermoplastic compact ball valves (1/2 through 2") shall be of sealed unit type. Valves shall be produced of PVC Type I, cell classification 12454 or CPVC Type IV, cell classification 23447 material. Valves shall have independent internal live-load carrier for maximum seat life. Valve seats shall be produced of Teflon® material. Valve o-rings shall be made of EPDM or Viton® material. Valve stem shall have two o-rings. The valve body shall have two stem stops. Valves shall be operated by a handle. Valves shall be full port (equal to or greater than the minimum inside diameter of Sch 80 pipe). Colonial Super C Series.

Viton® is a registered trademark of Dupont Dow Elastomers. Teflon® is a registered trademark of DuPont. Only DuPont makes Teflon.



COMPONENTS AND MATERIALS

Part Letter	Component	Quantity	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	Teflon®

MATERIAL CHOICES

Size	Style	PVC/EPDM O-Rings	CPVC/Viton® O-Rings
1/2"	Socket	V07191N	V07194N
1/2"	Thread	V07201N	V07204N
3/4"	Socket	V08181N	V08194N
3/4"	Thread	V08201N	V08204N
1"	Socket	V10191N	V10194N
1"	Thread	V10201N	V10204N
1-1/4"	Socket	V14191N	V14194N
1-1/4"	Thread	V14201N	—
1-1/2"	Socket	V17191N	V17194N
1-1/2"	Thread	V17201N	—
2"	Socket	V20191N	V20194N
2"	Thread	V20201N	—

Note: For sizes 2-1/2, 3, and 4", see Colonial's Two-Piece compact valves or True Union ball valves.

TEMPERATURE DE-RATING FOR VALVES & UNIONS (ABOVE 73° F)

Temp (°F)	PVC	CPVC	Temp (°F)	PVC	CPVC
73	1.00	1.00	150	NR	.47
80	.88	.96	160	NR	.40
90	.75	.92	170	NR	.32
100	.62	.85	180	NR	.25
110	.50	.77	200	NR	.18
120	.40	.70	210	NR	.15
130	.30	.62	240	NR	NR
140	.22	.55			

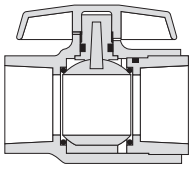
NR: Not Recommended

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

THE SUPER C ADVANTAGE

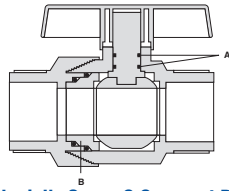
Colonial Super C Compact Ball Valve features "end over body" design. The end piece is permanently sealed over the body, compared to a typical plastic compact valve (shown below) in which the end piece is joined inside the body. If the valve becomes subjected to high pressure/temperature conditions, the body may expand and increase in diameter. In the typical compact valve design, the body may expand away from the end piece, causing 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.



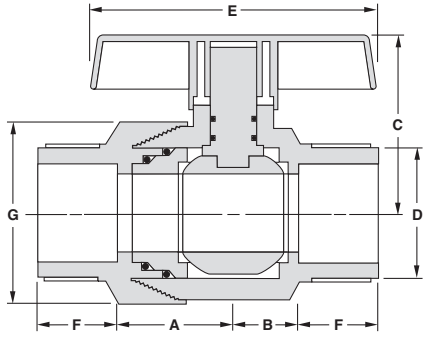
Typical Compact Ball Valve:

- End piece is threaded & sealed into body
- Only one stem o-ring



Colonial's Super C Compact Ball Valve:

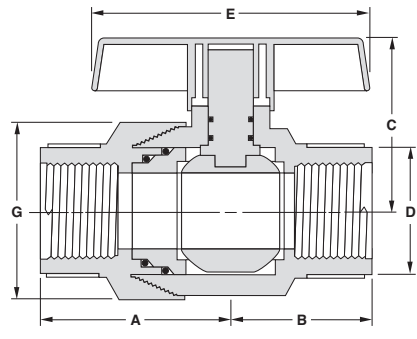
- End piece is threaded & sealed over the body
- Two stem o-rings (A)
- Exclusive floating carrier design (B)



DIMENSIONS

Slip X Slip

Size	A	B	C	D	E	F	G
1/2"	1-7/32"	11/16"	1-7/8"	1-11/32"	3-7/32"	7/8"	1-25/32"
3/4"	1-15/32"	3/4"	2-11/32"	1-9/16"	3-7/16"	1"	2-7/32"
1"	1-9/16"	31/32"	2-5/8"	1-7/8"	4"	1-1/8"	2-17/32"
1-1/4"	2-1/4"	1-5/16"	3-1/2"	2-19/32"	5"	1-1/4"	3-1/2"
1-1/2"	2-1/8"	1-3/16"	3-1/2"	2-19/32"	5"	1-3/8"	3-1/2"
2"	2-3/16"	1-7/16"	3-7/8"	3-1/8"	5"	1-1/2"	4-3/16"



DIMENSIONS

FPT X FPT

Size	A	B	C	D	E	F	G
1/2"	2-3/32"	1-9/16"	1-7/8"	1-11/32"	3-7/32"	1-25/32"	1-25/32"
3/4"	2-15/32"	1-25/32"	2-11/32"	1-9/16"	3-7/16"	2-7/32"	2-7/32"
1"	2-11/16"	2-1/16"	2-5/8"	1-7/8"	4"	2-17/32"	2-17/32"
1-1/4"	3-1/2"	2-9/16"	3-1/2"	2-19/32"	5"	3-1/2"	3-1/2"
1-1/2"	3-1/2"	2-9/16"	3-1/2"	2-19/32"	5"	3-1/2"	3-1/2"
2"	3-11/16"	2-15/16"	3-7/8"	3-1/8"	5"	4-3/16"	4-3/16"