Features and Benefits

- Thermoplastic design eliminates process and atmospheric corrosion.
- Pressure rating: 235 psi, non-shock water at 73º F, ½ - 2“, 150 psi for 2-1/2“.
- **Full Port Sch 80 in sizes ½, ¾, 1, 1-1/2, 2, & 2-1/2”.** Standard Port in size 1-1/4”.
- Socket dimensions meet ASTM Sch 80 requirements. PVC: D-2467, D-2464, CPVC: F-439, F437
- PTFE (Teflon®) Seats. Floating ball design for positive seal.
- True Union design permits easy removal of valve body for service.
- Blocked carrier. Handle can be removed and used as a tool to remove blocking carrier during valve disassembly. The carrier is threaded into the body and can be tightened to adjust for seat wear. Valve cartridge must be removed from system for maintenance.

For fluid handling only. Do not use with compressed air or gas.

NSF Certified to NSF/ANSI 61-G & 372

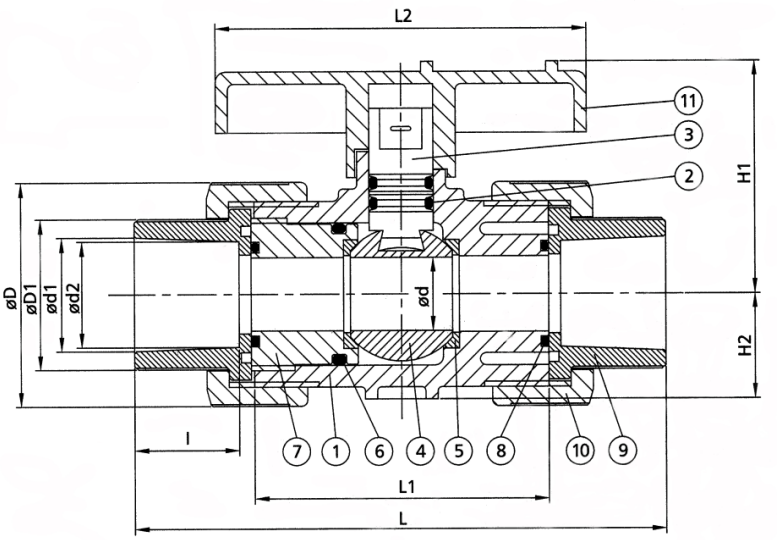
COLONIAL VALVE
A DIVISION OF COLONIAL ENGINEERING, INC.

The Commercial (050N) Series answers the need for a high quality, economically priced, true union ball valve for use in industrial, water treatment, pool/spa, and commercial plumbing applications. Available in 1/2 – 2-1/2” sizes.

NOTE: For 3 & 4” sizes, more material options, or actuation, see the Colonial 101 Series Full Block True Union Ball Valve.

Rev 6/29/26 Full Port in all sizes except 1-1/4”

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



1/2 – 2-1/2" Sizes include both Socket and Threaded End Connectors. Shaded items are special order. Call Customer Service for pricing and lead time. Non-shaded items are stocked.

Size	PVC/EPDM	PVC/FKM	CPVC/EPDM	CPVC/FKM
½	**V07050N**	V07052N	V07053N	V07054N
¾	**V08050N**	V08052N	V08053N	V08054N
1	**V10050N**	V10052N	V10053N	V10054N
1-1/4	**V14050N**	V14052N	V14053N	V14054N
1-1/2	**V17050N**	V17052N	V17053N	V17054N
2	**V20050N**	V20052N	V20053N	V20054N
2-1/2	**V27050N**	**V27052N**	**V27053N**	**V27054N**

Dimensions (Inch)

	1/2"	3/4"	1"	1-1/4"	1-1/2"	2	2-1/2"
d1	0.85	1.06	1.32	1.67	1.91	2.39	2.89
d2	0.84	1.05	1.31	1.66	1.89	2.37	2.87
l	0.88	1.00	1.13	1.25	1.38	1.50	1.75
D	1.82	2.19	2.63	3.23	3.88	4.75	5.51
D1	1.23	1.47	1.76	2.12	2.52	2.99	3.60
d	0.51	0.71	0.91	1.18	1.50	1.88	2.40
Port*	F	F	F	S	F	F	F
L	4.49	5.20	5.67	6.69	6.93	8.15	10.86
L1	2.36	2.87	3.11	3.46	3.74	4.49	6.22
L2	3.03	3.78	4.33	4.99	5.63	5.79	7.09
H1	1.89	2.24	2.76	2.95	3.43	4.45	5.02
H2	0.81	1.02	1.30	1.54	1.65	2.00	

*Sch 80 Port F= Full, S = Standard

NO.	Part	Material	Quantity
1	Body	PVC, CPVC	1
2	Stem O-Ring	EPDM, FKM	2
3	Stem	PVC, CPVC	1
4	Ball	PVC, CPVC	1
5	Seat Seal	PTFE Teflon®	2
6	Carrier O-Ring	EPDM, FKM	1
7	Seal Carrier	PVC, CPVC	1
8	Union O-Ring	EPDM, FKM	2
9	End Connector	PVC, CPVC	2
10	Union Nut	PVC, CPVC	2
11	Handle	ABS, PP	1

Teflon® is a registered trademark of DuPont Dow Elastomers.

Temperature De-rating:

Temp (ºF)	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

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