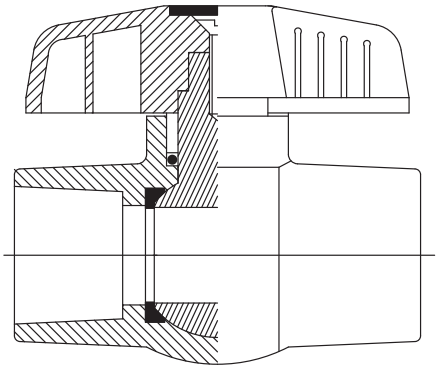
SIMTECH Process Systems | Expertise In Engineered Plastics

CBM Series

Molded-In-Place Ball Valve



Material:	PVC
Size:	½" - 2"
Pressure Rating:	150 psi
Seats:	EPDM
Seals:	EPDM
Connections:	IPS Socket
	NPT Threaded

ISO 9002 CERTIFIED

Materials of Construction:

PVC: Type 1, Class 12454B, ASTM D1784

Seals: EPDM or FPM

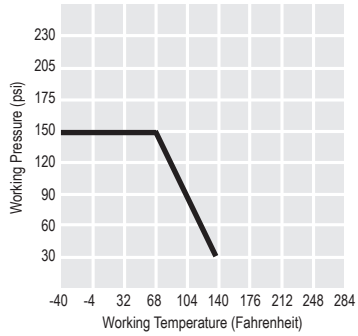
Seats: PTFE

Guide Specification: All molded in place ball valves constructed of the materials indicated. Valve shall be molded-in-place construction wherein the body is injection molded around the ball/stem and seats of the valve. Valve shall be full port design, as manufactured by SIMTECH.

Features

- Ideal for spas, swimming pools, water wells, irrigation etc.
- Excellent flow characteristics
- Severe shock-loads and misalignment are absorbed by the valve body, not the ball and seat—minimizes uneven wear and leakage

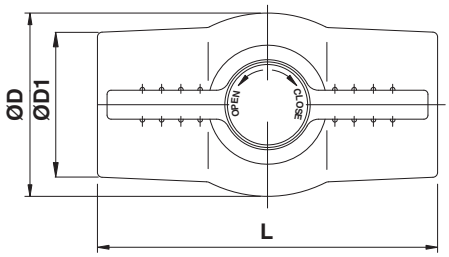
Pressure/Temperature Graph: Working PSI/Fahrenheit

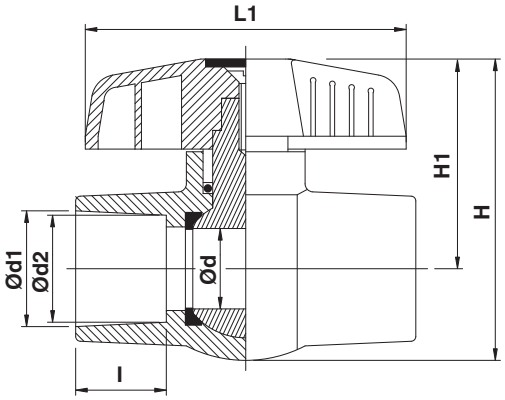


ND	½	¾	1	1¼	1½	2
Bore Size	.59	.79	.98	1.26	1.57	1.97
C_v	14	30	53.9	85	152.5	238

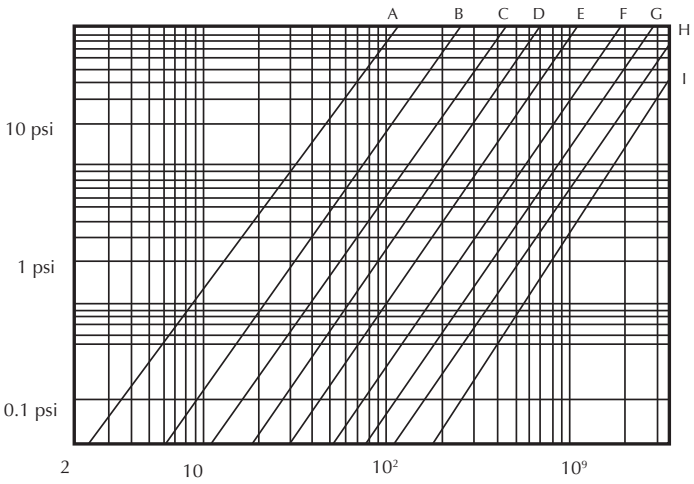
Dimensional Data

Nom. Size	d	d1	d2	D	D1	H	H1	I	L	L1
½"	0.57	0.85	0.84	1.50	1.18	2.49	1.75	0.87	2.76	3.27
¾"	0.79	1.06	1.05	1.93	1.50	3.08	2.12	1.00	3.46	3.74
1"	1.00	1.32	1.31	2.24	1.77	3.73	2.61	1.12	3.94	4.17
1¼"	1.14	1.67	1.66	2.48	2.13	3.88	2.64	1.25	3.94	4.49





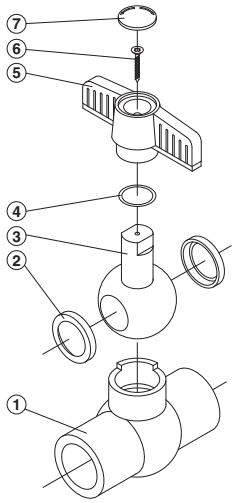
Pressure Loss—Flow Diagram



A = 1/2″
B = 3/4″
C = 1″
D = 1 1/4″
E = 1 1/2″
F = 2″

Cv is the number of gallons per minute of water at a temperature of 68ºF that will flow through a valve with a 1 psi pressure differential at a specified travel.

Parts Listing



NO.	PART	MATERIAL	Q'TY
1	BODY	PVC, CPVC, ABS	1
2	SEAT SEAL	EPDM, FPM	2
3	BALL	PVC, CPVC, ABS, PP	1
4	O-RING	EPDM, FPM	1
5	HANDLE	ABS	1
6	BOLT	ZINC-PLATED STEEL	1
7	CAP	ABS	1
8	FLANGE	PVC, CPVC, ABS, PP	1

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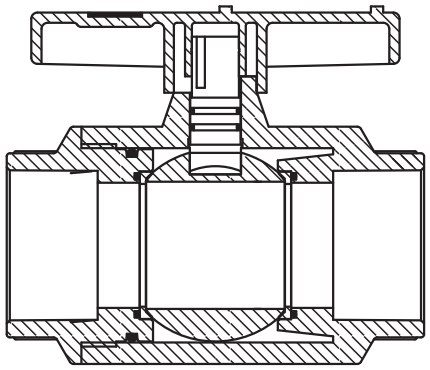
CBM Series

Two Piece Ball Valve



ISO 9002 CERTIFIED

Material:	PVC
Size:	2½" - 4"
Pressure Rating:	150 psi
Seats:	PTFE or EPDM
Seals:	EPDM
Connections:	IPS Socket
	NPT Threaded

Materials of Construction:

PVC: Type 1, Class 12454B, ASTM D1784

CPVC: Type 4, Class 23447, ASTM D1970

PP: Class PP 110B76383, ASTM D4101

PVDF: Type 1, ASTM D3222

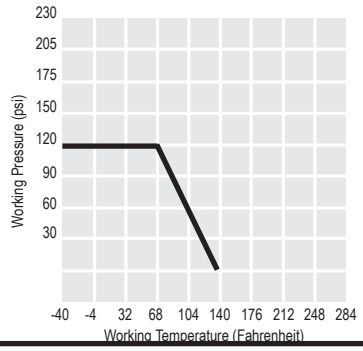
Seals: EPDM or FPM

Guide Specification: All Two piece ball valves constructed of the materials indicated. Valve shall be two piece construction wherein the body is injection molded single entry, and the ball is contained by a molded carrier. Valve shall be full port, as manufactured by SIMTECH.

Features

- Ideal for spas, swimming pools, water wells, irrigation etc.
- Excellent flow characteristics
- Severe shock-loads and misalignment are absorbed by the valve body, not the ball and seat—minimizes uneven wear and leakage
- Excellent low torque design
- Double O-Ring Seal on Stem

Pressure/Temperature Graph: Working PSI/Fahrenheit



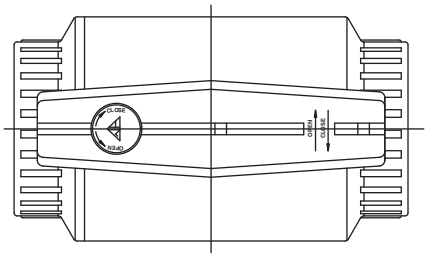
Flow Rate in Gallons Per Minute

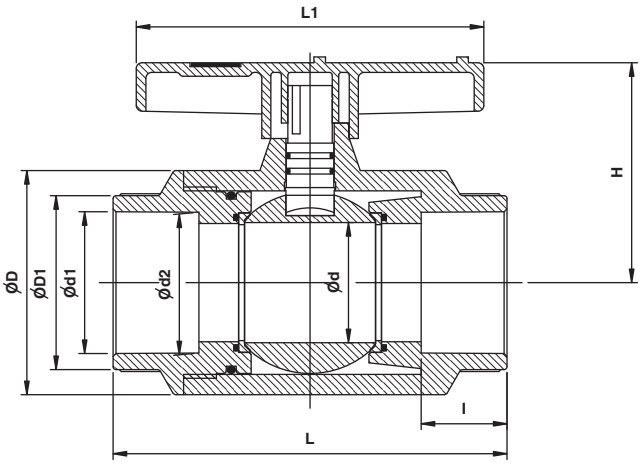
ND	2½	3	4
Bore Size	2.56	3.15	4.00
C_v	367.5	497	720

Cv is the number of gallons per minute of water at a temperature of 68ºF that will flow through a valve with a 1 psi pressure differential at a specified travel.

Dimensional Data

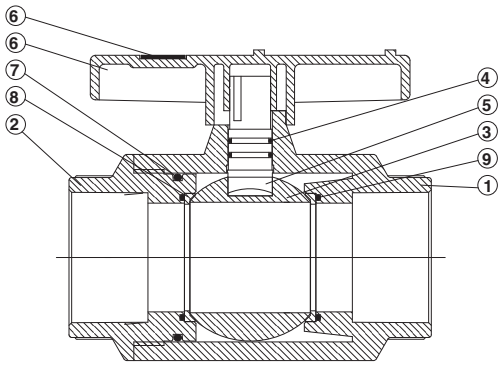
Nom. Size	d	d1	d2	D	D1	H	I	L	L1
2½"	2.40	2.89	2.87	4.53	3.52	4.57	1.75	7.87	7.09
3"	2.72	3.52	3.49	5.28	4.20	5.06	1.88	8.96	8.82



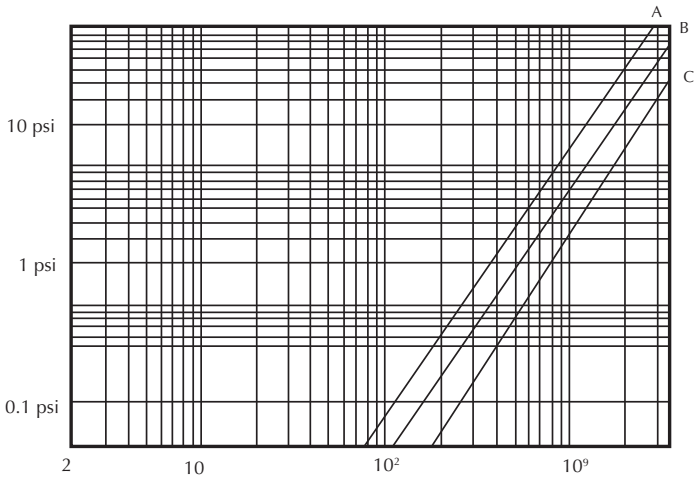


Parts Listing

NO.	PART	MATERIAL	Q'TY
1	BODY	PVC, CPVC, ABS	1
2	BODY CAP	PVC, CPVC, ABS	1
3	BALL	PVC, CPVC, ABS	1
4	STEM O-RING	EPDM, FPM	2
5	STEM	PVC, CPVC, ABS	1
6	HANDLE	ABS	1



Pressure Loss—Flow Diagram



A = 2 1/2″
B = 3″
C = 4″