



Specifications

Sizes: 3/8" - 2"
Models: Socket and Threaded
Bodies: PVC, CPVC
Seats: PTFE backed with EPDM
Seals: EPDM

**Sizes 3/8" - 2" PVC/EPDM Models
 NSF-61 Certified**

Standard Features (Sizes 3/8" - 2")

- Blocks in two directions
- Rugged structure
- Unibody construction
- Compact, low profile, short face-to-face dimensions
- PTFE seat backed by EPDM for low stem torque
- Rated for full vacuum service

Options

- Electrically actuated

Pressure vs. Temperature (psi, water, non-shock)

NOMINAL SIZE		PVC		CPVC		
		30° F 120° F	30° F 120° F	121° F 140° F	141° F 175° F	176° F 195° F
INCHES	mm					
3/8-2	13-50	150	150	120	90	60

Sample Specification

All Omni® ball valves size 3/8" to 2" shall be one-piece compact non-union design. All O-rings seals shall be EPDM with PTFE valve seats. Seats must have elastomeric backing cushions of the same material as the seals. PVC conforming to ASTM D1784 Cell Classification 12454A, and CPVC conforming to ASTM D1784 Cell Classification 23567A. Valves shall be rated 150psi at 70° F, as manufactured by Asahi/America, Inc.

Dimensions (Sizes 3/8" - 2") (in.)

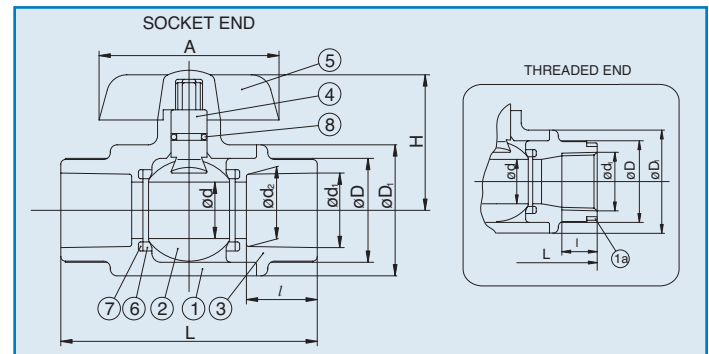
NOMINAL SIZE		SOCKET						THREADED					
		ASTM SCH 40											
INCHES	mm	d	d1	d2	L	L	d1	L	L	A	D	D1	h
3/8	13	0.51	0.687	0.671	0.59	3.35	3/8-18 NPT	0.59	3.35	2.36	1.22	1.38	1.65
1/2	15	0.59	0.848	0.836	0.69	3.82	1/2-14 NPT	0.59	3.82	2.76	1.22	1.38	1.73
3/4	20	0.79	1.058	1.046	0.72	4.02	3/4-14 NPT	0.67	4.06	3.15	1.46	2.17	2.17
1	25	0.98	1.325	1.310	0.87	4.49	1-11-1/2 NPT	0.79	4.45	3.15	1.77	2.36	2.36
1-1/4	32	1.22	1.670	1.655	0.94	5.00	1 1/4-11-1/2 NPT	0.87	5.00	3.74	2.13	2.76	2.76
1-1/2	40	1.38	1.912	1.894	1.09	5.98	1 1/2-11-1/2 NPT	0.98	5.94	4.33	2.50	2.99	2.99
2	50	1.77	2.387	2.369	1.16	6.93	2-11-1/2 NPT	1.10	6.93	4.33	3.01	3.31	3.31

Note: The shape and appearance of assembly differ a little with nominal size compared to this drawing.

Parts List (Sizes 3/8"- 2")

PARTS			
NO.	DESCRIPTION	PCS.	MATERIAL
1	Body	1	PVC, CPVC
2	Ball	1	PVC, CPVC
3	End Connector	1	PVC, CPVC
4	Stem	1	PVC, CPVC
5	Handle	1	ABS
6	Seat	2	PTFE
7	Cushion	2	EPDM, Others
8	O-Ring	1	EPDM, Others
1a	Ring*	2	304 Stainless Steel

*Used for CPVC body, threaded end, 1/2"-1"



Weight (lbs.) Cv Values

NOMINAL SIZE		SOCKET THR'D	NOMINAL SIZE		Cv
INCHES	mm		INCHES	mm	
3/8	13	0.22	3/8	13	7.7
1/2	15	0.26	1/2	15	14
3/4	20	0.55	3/4	20	29
1	25	0.88	1	25	47
1-1/4	32	1.21	1-1/4	32	73
1-1/2	40	1.32	1-1/2	40	140
2	50	2.20	2	50	185

Omni Ball Valves

1.0 Scope:

All requirements are for PVC & CPVC, Omni Ball Valves and accessories.

2.0 Materials:

U-PVC – Conforming to ASTM D1784 Cell Classification 12454 A

CPVC – Conforming to ASTM D1784 Cell Classification 23567A

EPDM – Ethylene Propylene Diene Terpolymer Rubber

PTFE - Polytetrafluoroethylene

3.0 Valves:

Ball valves shall be PVC or CPVC body with EPDM seals and PTFE seats. Valves shall be 1 piece construction, have 2-way blocking capability, and have elastomeric backing cushions behind the PTFE seats for low stem torque, and to compensate for wear. End connections shall be either Socket or Threaded. Valve stems shall feature 2 stem O-rings.

3.1 Operators

3/8" – 2" (Lever Type standard)

Lever Handle to be Asahi Standard valve handle Red color.

3.2 Approved Manufacturer

Valves shall be provided by Asahi/America, Inc. of Lawrence, MA with no approved equals.

Manufacturer must be ISO-9001 certified.

3.3 Pressure Vs. Temperature

Valves shall have a pressure rating of: 150 psi at 70° F all sizes

4.0 Accessories:

4.1 Actuation

Actuation where required should be designed, built and provided by Asahi/America, Inc., and be electric (Series 83) type. All actuation accessories to be provided and installed by Asahi/America, Inc. in accordance with manufacturer's requirements.

5.0 Certifications:

5.1 NSF-61

PVC/EPDM models shall have NSF-61 Certification for use in drinking water applications.

6.0 installation Procedures:

All valve joints shall be prepared using the preferred joining method for the valve material and installation type in accordance with all requirements put forth in the Omni Ball Valve Operation & Maintenance manual. All accessories should be installed in accordance with the manufacturer's requirements as well as any facility requirements.