



Enriching Lives

AIR VALVE

AS PER AWWA C 512



KIRLOSKAR BROTHERS LIMITED

Established 1888

A Kirloskar Group Company

NOTES

ABOUT KBL

Kirloskar Brothers Limited (KBL) is a world-class pump manufacturing company with expertise in the engineering and manufacturing of fluid management systems. Established in 1888 and incorporated in 1920, KBL is the mother company of the Kirloskar Group. KBL provides complete fluid management solutions for large infrastructure projects in the areas of water supply, power plants, irrigation, building & construction, oil & gas industry, and marine & defence. KBL manufactures industrial, agriculture and domestic pumps, valves and hydro-turbines.

Over the years, KBL has developed innovative products, which have enabled it to carve a niche globally. It is a global conglomerate and is equipped with the best technologies in the world. It is also India's largest centrifugal pump manufacturer with nine manufacturing facilities in India along with other international subsidiaries and operations in the Netherlands, South Africa, Thailand, the United Kingdom, and the United States of America. KBL has over 16,000 channel partners globally and is supported by best-in-class Pan-India network of authorised service and refurbishment centres.

KBL is the first Indian pump manufacturing company to be certified for Integrated Management System, (ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018).

Its factories deploy Total Quality Management tools using the European Foundation for Quality Management (EFQM) model.

Indian subsidiaries and joint ventures

- Kirloskar Ebara Pumps Limited (KEPL) manufactures API, Non-API pumps, and steam turbines.
- Kirloskar Corrocoat Private Limited (KCPL) is the leading solution provider in long-term corrosion protection and energy conversion.

- Karad Projects and Motors Limited (KPML) is a motor manufacturing company with expertise in the manufacture of stampings, stators, rotors, AC rotating machines, aluminium die-cast connecting rods and pump assemblies. It also houses a notable foundry facility specialising in the manufacture of a wide range of carbon steel, alloy steel, stainless steel and cast iron castings for industries such as pumps, valves, turbines, shipping, heavy engineering applications and more.

International, subsidiaries and joint ventures

- SPP Pumps Limited, United Kingdom is a 140-year-old leading pumps manufacturer of centrifugal pumps and associated systems, a global principal in the design, supply and servicing of pumps, renowned fire pump packages and high-quality equipment for a wide range of applications and industry sectors. It is the largest pump manufacturer in the United Kingdom.
- SyncroFlo, Inc., United States of America manufactures pre-assembled pumping systems and provides solutions for HVAC systems, fire protection and turf irrigation.
- Rodelta Pumps International is a Dutch pump manufacturing company that offers products for flood control, irrigation, drinking water, wastewater, pulp & paper, power, chemical, oil & gas and general industries.
- Kirloskar Brothers Thailand Limited (KBTL), Bangkok is the Thailand Board of Investment (BOI) promoted headquarters and assembly plant of the KBL Group companies for the ASEAN and East Asia regions.
- Braybar Pumps (Pty) Limited, Republic of South Africa is engaged in the manufacturing and sales of high-head multi-stage pumps, rubber-lined slurry pumps and metal-lined bearings.

Pumps | Valves | Hydro Turbines | Turnkey Projects

Water Resource Management | Irrigation | Power | Industry | Oil & Gas | Marine & Defence | Building & Construction | Distribution (Small Pumps) | Valves | Customer Service & Spares



Global Headquarter:
"Yamuna", Baner, Pune.



KIRLOSKAR AIR VALVE AS PER **AWWA C512**

Kirloskar Air valves are largely used across various municipal corporations, power plants as well as by irrigation and water supply authorities and several other industries. These valves are designed as per AWWA C512 specifications.

Applications:

- ▶ Used in air venting / air admission services in water pipelines
- ▶ Designed to operate with the floats inside
- ▶ Can handle both turbid and clear water with turbidity upto 5000 ppm

Operating Principles:

- ▶ Release air when the main is filled and to close and remain closed when the pipe is full to prevent the loss of water
- ▶ Open and admit air when the main is being emptied
- ▶ Release air accumulated under pressure during normal working conditions in the pipe, again without the loss of water

Special Features:

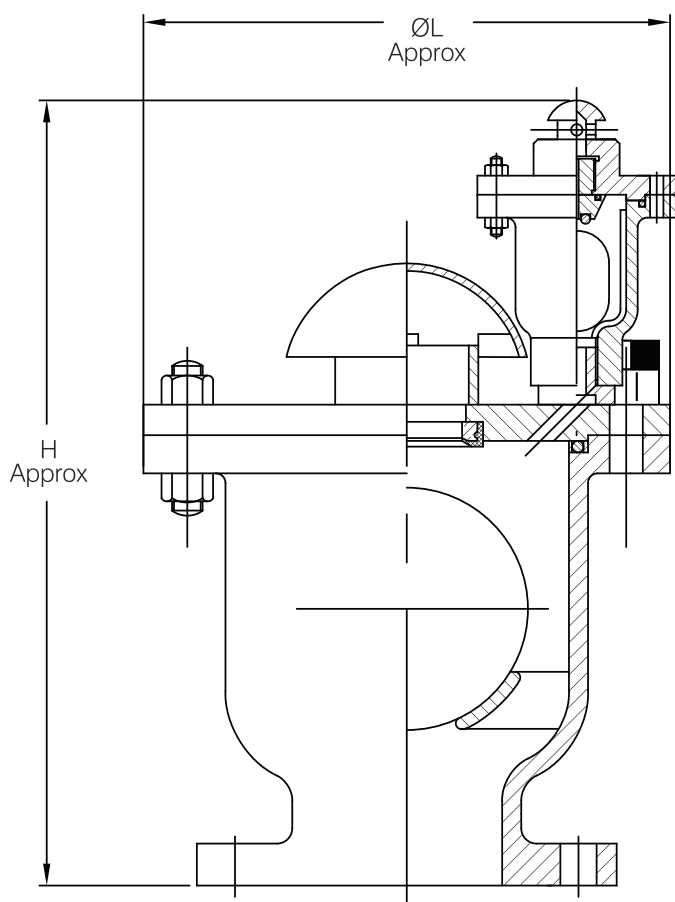
- ▶ Used as both air release / air vacuum valve
- ▶ Open to relieve negative pressures by admitting air when the main is being emptied
- ▶ Stainless steel floats meaning for zero maintenance and requires no spares for design-life
- ▶ Compact and light weight design that requires less space

Material of Construction:

	Body, Lock	Nozzle, Orifice	Float	Cover	O-Rings
Standard	CI IS 210 Gr FG 260	Bronze with Natural Rubber	ST.ST.AISI 304	MS IS 2060 GrE250A	Natural Rubber
Optional	Ductile Iron Cast Steel 2% Ni Ci Type-D2 Stainless Steel Duplex	MS with Natural Rubber	ST.ST.AISI 316		Nitrile Rubber EPDM

Note : * For special material of construction ,Contact Design Office.

* Protective coating for Body (Corrocoat / EPDM Lining) as per requirement



Technical Specifications :

Design and Manufacturing Standard

- AWWA C 512

Testing Standard

- AWWA C 512

Size Range

- 50 mm to 200 mm

Pressure Rating

- PN 10, PN 16

*For Higher Pressure Rating Contact Design Office

End Connection :

Availability

Flange Drilling Standard

Standard Supply

ANSI B 16.1 / 16.5

Optional

BSEN 1092-2 PN 10,PN 16

BS:10-Tbl D/E/F

IS:1538 Table 5 , Table 4 and 6

DIN 2532 (10Bar)

IS:6392

Dimensions:

Valve Size	H	LØ	Suitable For Main Size
50	350	200	125 to 200
80	375	230	225 to 350
100	423	310	400 to 500
150	538	425	600 to 900
200	587	385	1000 to 1200

Note : * All Dimensions are in 'mm' otherwise stated.

Hydrostatic Test Pressures:

Scope	Size Range	Testing Standard	Hydrostatic test Pressures Bar		
		Pressure Rating Bar	Body	Seat-LP	Seat-HP
Standard Supply	50-200 mm	PN10			
	50-200 mm	PN16	24	1.38	24
Optional	For Higher Pressure ratings can be supplied on case to case bases				

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REGISTERED OFFICE & GLOBAL HEADQUARTERS

“Yamuna”, S. No. 98/(3-7), Plot No. 3, Baner,
Pune - 411 045, Maharashtra, India.

Toll Free: 1800-123-4443 | **Phone:** +91 (20) 67214444

Email: marketing@kbl.co.in | **Fax No.** 020 67211060

Website: www.kirloskarpumps.com | **CIN No.** L29113PN1920PLC000670

OUR COMPANIES



BRAYBAR PUMPS (PTY) LTD
Republic of South Africa



KARAD PROJECTS AND MOTORS LIMITED
India



KIRLOSKAR BROTHERS (THAILAND) LIMITED
Thailand



KIRLOSKAR CORROCOAT PRIVATE LIMITED
India



KIRLOSKAR EBARA PUMPS LIMITED
India



RODELTA PUMPS INTERNATIONAL B.V.
The Netherlands



SPP PUMPS LIMITED
United Kingdom



SYNCROFLO, INC.
U.S.A.