



Enriching Lives

KINETIC AIR VALVE

AS PER IS 14845



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.



KINETIC AIR VALVE

Kirloskar Kinetic Air valves are vigorously used across various municipal corporations as well as by irrigation authorities, water supply authorities, National Thermal Power Corporation and industrial users. These valves are designed, manufactured and tested as per IS 14845 standards (DK Type).

Applications:

- Water Supply Lines / Distribution Lines
- Turbid / Clear Water and Sewage Applications
- Air Venting / Admission Services in Water Pipelines

Operating Principles:

- To release air when the main is being filled and to close and remain closed when the pipe is full to prevent loss of water
- To open and admit air while the main is being emptied
- To release air accumulated under pressure during normal working conditions in the pipe, again without loss of water. In Kinetic Air Valve, this operation is effected automatically by means of a ball float working in conjunction with an orifice of appropriate type for the duty

Salient Features:

- Double orifice type (small and large orifice), kinetic type
- Non-clogging and self-sealing balls for trouble-free operation
- Specially designed cowl for trouble-free operation

Material of Construction

Scope	Body, Cowl, HP Cover, LP Cover	HP-Orifice Plug	Float for HP-Chamber	Float for LP-Chamber	LP Seat ring
Standard	CI IS 210 Gr FG 260	Gun Metal IS 318 Gr LTB2	Rubber lined Seasoned timber	Vulcanite lined Seasoned timber	Natural Rubber
Optional	SG. Iron as per IS : 1865, 2% NiCl, ASTM A 439 Type D2, Cast Steel IS : 1030 / ASTM A 216 Gr WCB	ST.ST.AISI 304 ST.ST.AISI 316	SS AISI 304 SS AISI 316	SS AISI 304 SS AISI 316	EPDM Nitrile Neoprene

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

* Protective coating for Body / Cowl / Cover (Corrocoat / Ebonite / EPDM Lining) as per requirement.

* HP - High Pressure. LP - Low Pressure.

End Connections:

Scope	Flange Drilling Standard
Standard Supply	IS : 1538 Table IV and VI
Optional	BSEN 1092-2 PN 10, PN 16
	BS:10-Table D / E / F
	IS : 1538 Table V
	ANSI B 16.1 / 16.5
	DIN 2532 (10 Bar)
	IS: 6392

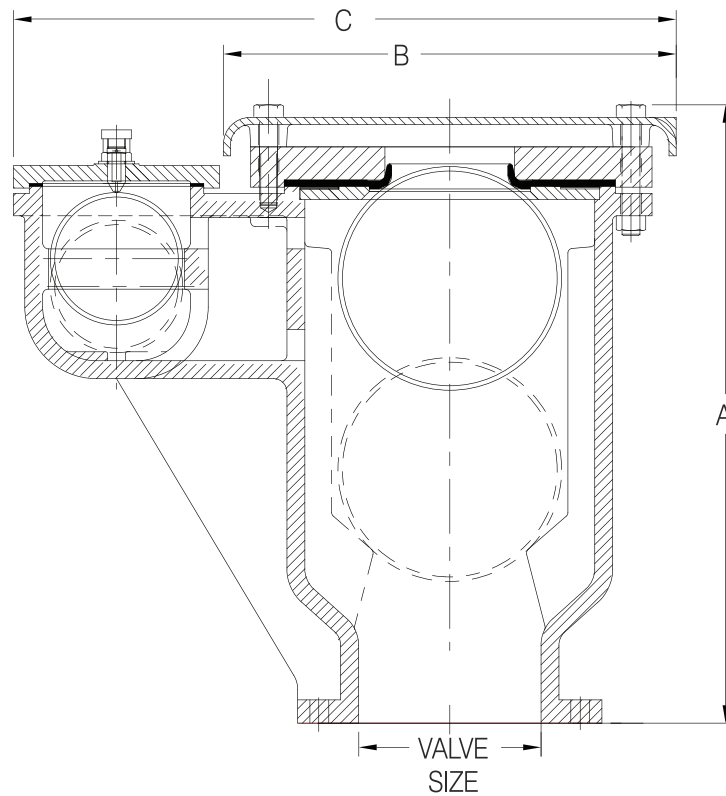
Technical Specification:

Design and Manufacturing Standard	Testing Standard	Size Range	Pressure Rating
IS:14845	IS:14845	50 mm to 250 mm	IS:14845 PN 1.0, PN 1.6

Hydrostatic Test Pressures:

Scope	Size Range	Manufacturing Standard & Pressure Rating (Mpa)	Hydrostatic Test Pressure Kg/cm ² (mpa)	
			boby	seat
Standard Supply	50-250 mm	IS : 14845 PN 1.0	15.29 (1.5)	10.19 (1.0)
	50-250 mm	IS : 14845 PN 1.6	24.47 (2.4)	16.31 (1.6)
Optional	Higher Pressure ratings can be supplied on case to case basis.			

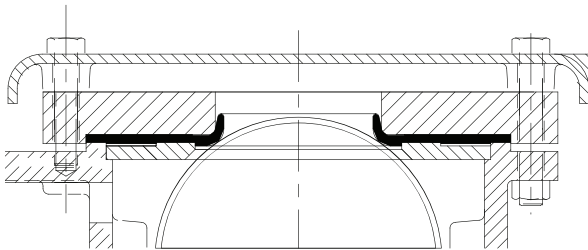
General Outline Drawing and Cut View:



Sealing arrangement in Kinetic Air Valve:

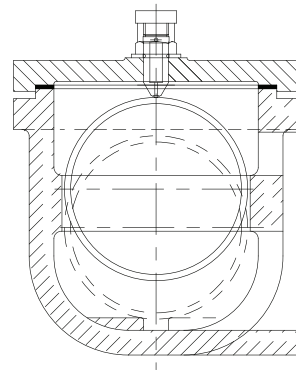
Large Orifice

Vulcanite covered Float is sealing large orifice



Small Orifice

Rubber covered Float is sealing small orifice



General Outline Dimensions:

Valve Size	A Min	B Min	C Min	Suitable for Main Size
50	280	211	352	125 to 200
80	305	236	373	225 to 350
100	360	280	424	400 to 500
150	487	450	674	600 to 900
200	700	506	739	1000 to 1200
250	700	570	820	1000 to 1200

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

*For pipeline sizes above 1200 mm, Air Valve sizes may be decided by the customer.

NOTES



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REGISTERED OFFICE & GLOBAL HEADQUARTERS

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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.