



Enriching Lives

KINETIC AIR VALVE

AS PER IS : 14845



KIRLOSKAR BROTHERS LIMITED

KINETIC AIR VALVE

Widely accepted by Municipal Corporations, Irrigation Authorities, Water Supply Authorities, National Thermal Power Corporation, Nuclear Power Corporation and Industrial users.

Designed as per latest editions of IS specifications.

Applications :

- Kinetic Air Valves are commonly used in air venting / air admission services in water pipelines. These are designed to operate with the floats inside
- Turbid or clear water
- Sewage

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 :

- Kirloskar Kinetic Air Valves is a combination of a small and a large orifice air valve
- A separate conventional isolating Sluice Valve with \ without bevel gear arrangement, is provided for inspection / maintenance of the Air Valve without closing the main line
- Non clogging and self sealing floats for trouble free operation
- Perfect guide for small orifice float and guide ribs with minimum clearance for large orifice float for movement without wobble during operation
- Suitably shaped and precisely finished small orifice to enhance small orifice float life
- Specially designed cowl for trouble free valve operation on line
- Maintenance and trouble free operation under maximum working pressure
- Large orifice seal is provided with special serrations on surface for tight grip and also with precise shaped orifice to prevent adhesion between Float and seat

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 Connection :

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 :

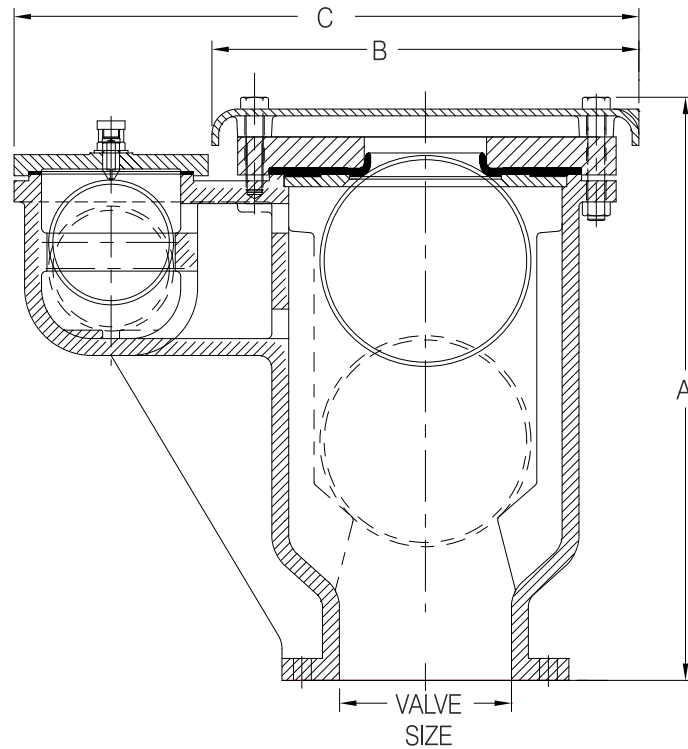
Design and Manufacturing Standard	Testing Standard	Size Range	Pressure Rating
IS:14845	IS:14845	50 mm to 250 mm	IS:14845 PN 1.0, PN 1.6

Note : * Higher Pressure Rating Contact Design Office.

Hydrostatic Test Pressures :

Scope	Size Range	Manufacturing Standard and Pressure Rating (MPa)	Hydrostatic test Pressures Kg/Cm2 (MPa)	
			Body	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.			

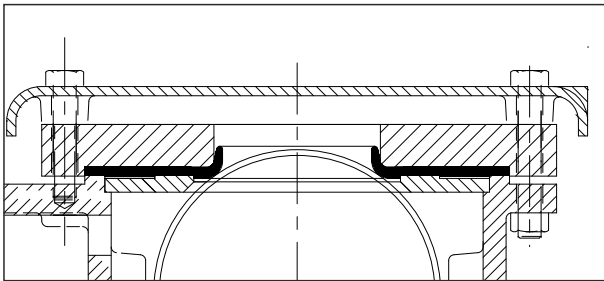
General Outline Drawing and Cut View :



Sealing arrangement in Kinetic Air Valve :

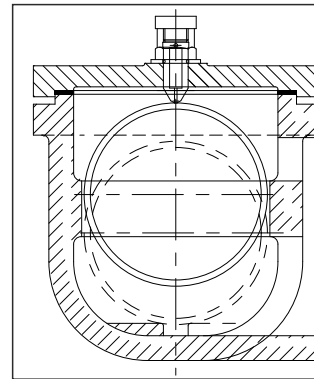
Large Orifice

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.

OUR GLOBAL PRESENCE



ABOUT KBL

Kirloskar Brothers Limited (KBL) is a world class pump manufacturing company with expertise in engineering and manufacture of systems for fluid management. Established in 1888 and incorporated in 1920, KBL is the flagship company of the \$ 2.1 billion Kirloskar Group. As the market leader in fluid management, KBL provides complete fluid management solutions for large infrastructure projects in the areas of water supply, power plants, irrigation, oil & gas and marine & defence. We engineer and manufacture industrial, agriculture & domestic pumps, valves and hydro turbines.

In 2003 KBL acquired SPP Pumps, United Kingdom and established SPP Inc., Atlanta, USA, as a wholly owned subsidiary of SPP, UK and expanded its international presence. In 2007, Kirloskar Brothers International B.V., The Netherlands and Kirloskar Brothers (Thailand) Ltd, a wholly owned subsidiary in Thailand were incorporated. In 2008, KBL incorporated Kirloskar Brothers Europe BV (Kirloskar Pompen BV since June 2014), a joint venture between Kirloskar Brothers International BV and Industrial Pump Group, The Netherlands. In 2010 KBL further consolidated its global position by acquiring Braybar Pumps, South Africa. SPP MENA was established in Egypt in 2012. KBL has a joint venture company with Ebara Corporation, Japan since 1988 for the manufacture of API 610 standard pumps. Kirloskar Corrocoat Private Limited is joint venture cooperation with Corrocoat Ltd., UK since 2006. KBL acquired The Kolhapur Steel Limited in 2007 and Hematic Motors in 2010. In 2014, KBL acquired SyncroFlo. Inc, the largest independent fabricator of commercial and municipal domestic water.

KBL has eight manufacturing facilities in India at Kirloskarvadi, Dewas, Kondhapuri, Shirval, Sanand, Kaniyur, Kolhapur and Karad. In addition, KBL has seven manufacturing and packaging facilities in Egypt, South Africa, Thailand, The Netherlands, United Arab Emirates, United Kingdom and United States of America. KBL has 12,700 channel partners in India and 80 overseas and is supported by best in class network of Authorised Centres and Authorised Refurbishment Centres across the country.

All plants of KBL are ISO 9001, ISO 14001 and OHSAS 18001 standards certified. They apply Total Quality Management tools using European Foundation for Quality Management (EFQM) model. The Kirloskarvadi plant of KBL is a state of art integrated manufacturing facility having one of Asia's largest hydraulic research centre with testing facility up to 5000 kW and 50,000 m³/hour.

KBL is the only pump manufacturing company in India and ninth in the world to be accredited with the N and NPT certification by American Society of Mechanical Engineers (ASME).



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A Kirloskar Group Company

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Our Group Companies



KIRLOSKAR BROTHERS LIMITED
KAVL-08-2014-00

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