



Enriching Lives

TAMPER PROOF KINETIC AIR VALVE

(As per IS: 14845)



KIRLOSKAR BROTHERS LIMITED

Kinetic Air Valves are commonly used in air venting / air admission services in water pipelines. These are designed to operate with the floating balls inside. Kirloskar Tamper Proof Kinetic Air Valve has been designed to offer reliable service over a longer period of time.

Performance of Kinetic Air Valve gets severely affected by tampering the valve with an external mechanism.

Conventional Kinetic Air Valves have been found misused by people on many occasions by tampering the valves to collect water for daily use. This leads to any continuous leakage through valve and a wastage of water. Also, there is no control on valve performance after tampering.

Kinetic Air Valves are commonly found tampered :

- By pressing the ball from Large Orifice, water comes out due to high internal pressure
- By loosening / removing the cowl and inserting rod or other similar objects
- By removing high pressure Air Release nipple

KBL has conducted a detailed study of the Kinetic Air Valves installed at various locations to identify the causes of performance failure. KBL took inputs from that study and site observations for designing a new Tamper Proof Kinetic Air Valve with added features.

Design Features

- Tamper Proof Design of Cowl
- Tamper Proof Design for Bolting
- Tamper Proof Design of High Pressure Orifice Cover and Nipple

Tamper Proof Kinetic Air Valve additionally :

- Has aesthetically elegant design
- Is ideally suited for turbid / clear water and for sewage application



Working Pattern

- 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 when the main is being emptied
- To release air accumulated under pressure during normal working conditions in the pipe, again without loss of water

Customer Benefit

- Eliminates wastage of water and ensures proper use of natural resource
- Reliable performance of valve
- Longer service life
- Easy maintenance

Salient Features

- Kirloskar Tamper Proof Kinetic Air Valve is a combination of a small and a large orifice air valves
- A separate conventional isolating Non Rising Sluice Valve is provided for inspection / maintenance of the air valve without closing the main line
- Non clogging and self sealing balls for trouble free operation
- Perfect guide for small orifice ball and guide ribs with minimum clearance for large orifice ball for movement without wobble during operation
- Suitably shaped and precisely finished small orifice to enhance small orifice ball life
- Specially designed cowl to prevent unauthorized access to the large orifice ball
- Unique design of new high pressure cover and nipple
- Provision of Tamper Proof hexagonal cap screws

Material of Construction

Body, Cover and Cowl	Cast Iron
Small Orifice Nipple	Bronze (standard) or Stainless Steel
Small Orifice Ball	Stainless Steel Hollow Ball (standard) or Rubber Lined Seasoned Timber
Large Orifice Ball	Stainless Steel Hollow Ball (standard) or Vulcanite Lined Seasoned Timber Ball
Seat Ring	Natural Rubber

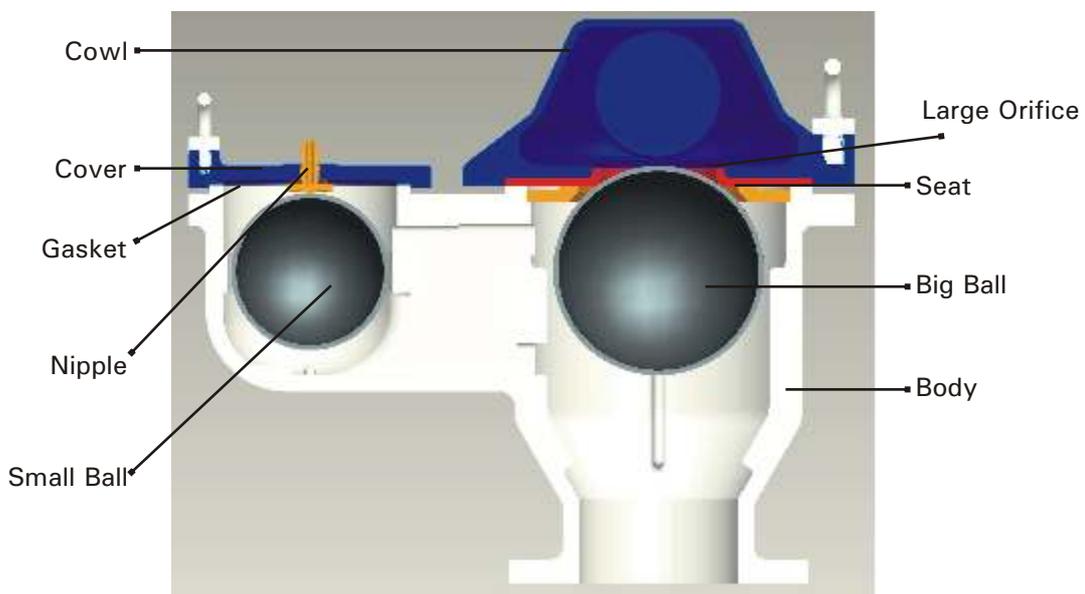
Pressure Rating

Rating	Max Working Pressure (BAR)	Test Pressure (BAR)
PN 1.0	10	15
PN 1.6	16	24

Flange Drilling

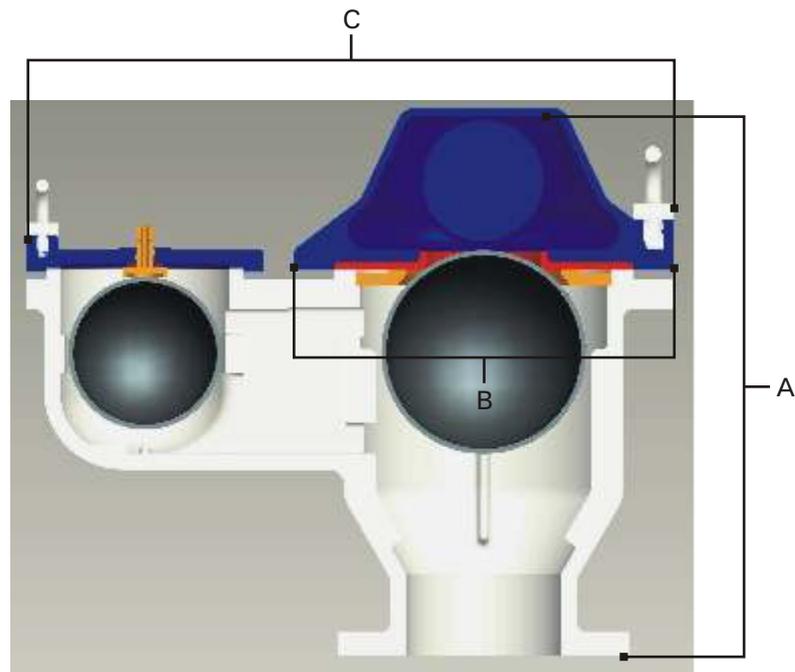
- IS 1538 Table 4 - 6
- BSEN 1092.2, PN 10 / 16
- As per customer requirement

Typical Cut - Sectional View



Kirloskar Tamper Proof Kinetic Air Valve

General Arrangement



Valve Size (mm)	A Min (mm)	B Min (mm)	C Min (mm)	Suitable for Main Size (mm)
50	280	211	352	125 to 200
80	305	236	373	225 to 350
100	376	280	448	400 to 500
150	487	455	692	600 to 900
200	700	506	740	1000 to 1200

For pipe line sizes above 1200 mm, Air Valve size may be decided by the customer.

As we are constantly endeavouring to improve the performance of our products/ equipment, we reserve the right to make alterations from time to time and as such our products/ equipments may differ from that detailed in this publication. You may get in touch with our Regional Sales Offices for latest information .



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