

Sealing in Benefits

Kirloskar Brothers' latest innovation, tamper-proof kinetic air valves, helps to prevent water wastage and theft

Today, water conservation is becoming a serious challenge, both in India and around the world. Leakage, wastage and theft of water by tampering the supply lines, or by any other means, result in substantial water wastage. It imposes a huge cost on water authorities and users alike.

Kinetic air valves are commonly used for air venting and air admission services in water pipelines. These valves are commonly tampered by loosening or removing the cowl, and by inserting a rod or other similar objects between the cowl and the valve body. Once the valve is tampered with, the water (which is under high internal pressure in the pipeline) is released and starts

leaking continuously. Water pilferage also takes place by removing the high-pressure air release nipples.

Introducing Tamper-proof Kinetic Air Valves

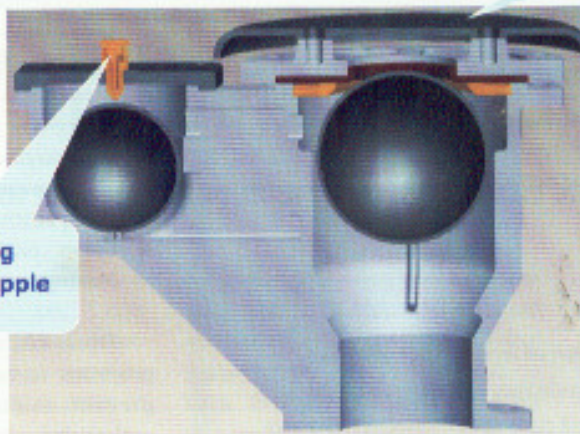
To combat water theft, wastage and pilferage, and to contribute to the creation of a cleaner environment, Kirloskar Brothers Ltd (KBL) has conducted a detailed study of the kinetic air valves installed at many locations to identify the causes of performance failure. Using inputs from that study and site observations KBL designed a completely new, tamper-proof kinetic air valve. "This valve has been designed to offer reliable service over a longer period

of time," informs Ramchandra Mahind – Associate Vice President and Head (Valve Business Operations), KBL.

KBL's all-new range of tamper-proof kinetic air valves was launched on September 22 this year, for water, sewage and effluent applications. Avinash Purandare – Vice President and Head (Corporate Global Marketing and Strategy), KBL, states that the objective behind designing this air valve is to combat the problem of tampering and leakages, and to prevent water wastage at the mains and distribution networks. The other objective of manufacturing such a valve, is to reduce onsite tool requirements. A conventional separate, isolating non-rising sluice

By loosening / removing cowl & inserting rod or other tools.

By removing Air Release Nipple



Tampering Of Conventional Kinetic Air Valve

valve or butterfly valve is provided for inspection and maintenance of the air-release valve, without closing the main line.

The Range and Material of Construction

Tamper-proof kinetic air valves are available in five sizes—50, 80, 100, 150 and 200 mm. Pressure ratings are PN 1.0 and PN 1.6 for maximum working pressure of 10 kg per sq. cm, and 16 kg per sq. cm.

Chandrakant Wadkar, Divisional Manager and Head (Valve Engineering) at KBL's

Kondhapuri facility informs that KBL is offering standard material of construction for the body, cover and cowl of the tamper-proof kinetic air valves in cast iron; bronze



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Tamper and Wastage Proof

Kirloskar tamper-proof kinetic air valves are equipped with:

- Tamper-proof cowl design
- Tamper-proof bolting design
- Tamper-proof fitting of high-pressure nipple
- Aesthetically elegant design
- Manufacturing standard: IS 14845

Salient Features

- Special cowl design prevents unauthorised access to large orifice ball
- Trouble-free operations by using non-clogging and self-sealing technology
- Perfect guide for small orifice ball and guide ribs with minimum clearance for large orifice ball, for wobble-free movement
- Suitably-shaped small orifice to enhance small orifice ball-life

KBL's objective behind this air valve is to combat the problem of tampering, leakages, and prevent water wastage at the mains and distribution networks.

for the small orifice nipple; and stainless steel for the small and large orifice hollow balls.

Customer Advantages

KBL's tamper-proof kinetic air valves are an ideal choice for turbid as well as clear water, and also for sewage applications. They offer manufacturers the following advantages:

- Special design of cowl and high-pressure orifice (including nipple and the bolting) ensures trouble-free operation with zero maintenance
- Specially-designed cowl prevents tampering of the large orifice ball
- Early payback period
- Water saving
- Good aesthetical appearance
- Clean environment with no leaking spots

Thus, KBL's latest innovation promises to reduce wastage and prevent theft, thereby helping authorities and end-users in the long run. 🌟

Source: Kirloskar Brothers Ltd