



Water Meter-specific 'dynamic management three-proof valve' and other Valves
For comparison

<p>Comparative Products</p>	<p>Dynamic management Three-proof valve</p> 	<p>Lock valve+check valve combination</p> 
<p>Effectiveness Comparison</p>	<p>Regardless of whether it's a new or old residential area, or the persistent issue of various water meters 'self-rotation,' after installing the 'three-proof valve,' it can completely solve the problem</p>	<p>After installation, issues such as water pressure fluctuations, pulsation phenomena, or the presence of impurities can still prevent the effective resolution of problems like water meter "self-rotation."</p>
<p>Water flow pressure loss comparison</p>	<p>A large diameter, obstacle-free, and smoothly designed passage to ensure smooth water flow and high flow rate.</p>	<p>Spring-loaded check valve: Hindered by spring resistance and a narrowed passage, it severely affects water flow. On the other hand, the flap check valve: Due to a sudden expansion in the middle of the valve body and the 'pulsating' water flow, it causes valve flap vibration, leading to turbulent water flow that affects water meter measurement.</p>

<p>User management function comparison</p>	<p>"Dynamic management" function + non-card magnetic lock design Assist in upgrading the water company's management methods and improving reliability.</p>	<p>"A single Δ or magnetic management function results in keys scattered everywhere, rendering it meaningless for management. Furthermore, such magnetic management valves cannot function properly due to magnetic pole design principles."</p>
<p>Core principal comparison</p>	<p>"Permanent magnetism + hydraulic self-dynamic check is the core. It can ensure stable performance under various water usage conditions in the long term."</p>	<p>Relying on spring force or depending on reverse water pressure for check valves is the core. Due to spring jamming, failure, and water pressure 'pulsation,' the effectiveness cannot be guaranteed.</p>
<p>Economic benefits and management benefits comparison</p>	<p>Fewer installation nodes (fewer leakage points) + saving the installation cost of one valve and joint + lower initial comprehensive investment, high economic value. One valve serves the function of three valves, reducing overall costs and leakage points.</p>	<p>An additional node means an additional potential leakage point, and installation materials and costs increase. When considering the one-time purchase price alone, it appears to be low. However, it cannot effectively address the 'three-proof' issues, causes water flow problems, and fails to improve water company management. Without a doubt, it is not worth further promotion.</p>

Notes:

A Three-Proof:

- a. Preventing water meter self-rotation: Resolving water usage disputes and improving customer satisfaction.
- b. Preventing non-metered dripping water: Enhancing meter sensitivity, improving measurement accuracy, and fairness.
- c. Preventing sewage and hot water from flowing back into the pipe network: Addressing water pollution risks and enhancing drinking water safety.

B Dynamic Management:

- a. Daily management: Can be managed by the water company itself, or the regular Δ key can be given to the property management for daily management, to lighten the burden on the water company.
- b. Special management when necessary, such as before or after the handover of new buildings when enhanced management is required, the "Golden Arch" magnetic lock can be added.