



LORAWAN SMART VALVE

LORAWAN REMOTELY CONTROLLED BATTERY-OPERATED SMART VALVE



KEY FEATURES

- ◆ **Automated Leak Response Control:** Instantly closes upon receiving a trigger from ioX-Connect water leak sensors using rules in ioX-Pulse Platform.
- ◆ **Stainless Steel Construction:** Available in SS304 or SS316 body with FKM & PTFE seals for industrial durability.
- ◆ **Manual Override & Position Indicator:** Safety pull-and-twist manual knob with visible open/close position indicator.
- ◆ **Fast Actuation & Long Service Life:** ≤ 7 second open/close time once downlink received with 70,000 cycle lifespan.

DEVICE OVERVIEW

The **ioX-Connect LoRaWAN Smart Valve** is a battery-powered, industrial-grade motorized ball valve designed for remote shutoff and automated leak response applications. Built with a stainless steel valve body and IP67-rated actuator housing, it enables reliable control of water, gas, oil, and compatible fluids in commercial and industrial environments.

The valve integrates seamlessly with the ioX-Connect platform via **LoRaWAN Class A** communication, allowing remote open/close control, status monitoring, and automated response when triggered by water leak sensors or other alarm conditions.

Best For: Automated leak response, remote fluid shutoff, building protection systems, industrial process control, and infrastructure monitoring.

TECHNICAL FEATURES

- **LoRaWAN Version:** v1.0.3, Class A
- **Frequency Options:** 868 MHz or 915 MHz
- **Valve Type:** 2-Way Motorized Ball Valve | **Actuator Material:** Engineering Plastics (PPO) | **Sealing Material:** FKM & PTFE
- **Connection Type:** Internal Thread — BSP or NPT
- **Valve Sizes:** DN8–DN25 (1/4"–1")
- **Valve Body Material:** SS304 or SS316
- **Power Supply:** 2 × AA Lithium Batteries (**Note:** Batteries removed for shipping and installed locally)
- **Open/Close Time:** ≤ 7 seconds (Once downlink received. Default heartbeat ~20 minutes)
- **Life Cycle:** 70,000 operations | **Maximum Working Pressure:** 1.0 MPa | **Protection Class:** IP67
- **Liquid Temperature:** 2°C ~ 90°C (35.6°F ~ 194°F) | **Ambient Temperature:** -15°C ~ 50°C (5°F ~ 122°F)