WaterStop Jeweller

Remotely controlled water shutoff valve

Compatibility	Hubs
	Hubs
	- Hub Plus - Hub 2 (2G) - Hub 2 (4G) - Hub 2 Plus - Hub Hybrid (2G) - Hub Hybrid (4G)
	Radio signal range extenders
	- ReX - ReX 2
Communication	**Jeweller communication technology**
	Proprietary wireless communication technology to transmit events.
	It features:
	- Two-way communication. - Protection against spoofing. - Block encryption with a dynamic key. - Instant notifications. - Remote configuration via the Ajax apps.
	Frequency bands 866,0 – 866,5 MHz 868,0 – 868,6 MHz 868,7 – 869,2 MHz 905,0 – 926,5 MHz 915,85 – 926,5 MHz 921,0 – 922,0 MHz Depends on the sales region.
	Maximum effective radiated power (ERP)

	up to 20 mW Automatic power regulation to reduce power consumption and radio interference. **Radio signal modulation** GFSK **Radio communication range** up to 1,100 m Between the detector and a hub/range extender in an open space. **Encrypted radio communication** All the data stored and transmitted are protected by block encryption with a dynamic key. **Frequency hopping** Prevents radio interference and jamming.
Operating components	**Shutoff valve** ½, ¾, or 1" Bonomi Industries shutoff valve included in complete set. **Electric actuator** Opens or closes the valve. **Mounting platform** To install an electric actuator on a shutoff valve. **Mounting lockers** To fix an electric actuator on a shutoff valve. There are two options: • standard (pre-installed) • anti-sabotage

Water shut-off shutoff valve	**Fields of application** ● Water supply ● Heating systems **Operating fluid** ● Hot and cold water ● Non-aggressive liquids **Material** brass **Connection type and thread** F/F threaded **Thread size:** ● 1/2" (15 mm) ● 3/4" (20 mm) ● 1" (25 mm) **Operating liquids' temperature range** from +5°C to +120°C **Mounting platform** to mount an electric actuator on a shutoff valve Complies with the ISO 5211 standard. **Lever on mounting platform** To manually shut off the water supply without tools in case of emergencies.
Water shut-off electric actuator	**Torque** up to 8.5 N•m **Operating pressure** up to 10 bars **Shut-off speed** up to 7 seconds The value may increase if the valve is clogged or stuck. **Remote control** control and configuration in Ajax apps Apps provide all information about the device: current valve state (open/closed), statuses of battery charge, external power supply, and communication with a hub.

	Manual control the control button on the electric actuator enclosure Opens/closes the valve when pressed.
Additional features	**Installation** ● does not require tools and enclosure disassembling ● 4 possible mounting positions of electric actuator towards the valve ● anti-sabotage locker to complicate unauthorized dismount of an electric actuator The design allows maintenance, and repair in hard-to-reach places: pipe tunnels, technical boxes, walls, etc. It is possible to replace the actuator unit without dismantling the shutoff valve. **LED indication** The LED placed under an Ajax logo on enclosure and reports the electric actuator states. **Automation scenarios** ● alarm reactions ● security mode change reactions ● scheduled actions ● temperature scenarios ● humidity scenarios ● CO_2 level scenarios ● by pressing Button ● by pressing LightSwitch **Stuck prevention** the scheduled scenario automatically opens/closes a shutoff valve Configured in Ajax apps. The recommended periodicity is once a week. **Overheating notification** The notification is sent to Ajax apps when the device temperature tops +60°C and when it returns to normal.
Recommendations	The device is designed for indoor use only. Contact a plumber to install the shutoff valve.
Anti-sabotage protection	**Protection against spoofing** device authentication **Communication failure detection**

	in 36 s The detection time depends on the **Jeweller** or **Jeweller/Fibra** settings. **Tampering alarm** Notifies about attempts to detach the enclosure from the mount. **Mounting lockers for fastening** The complete set includes two options: ● **Standard locker (pre-installed)** — fixes an electric actuator on a shutoff valve. Removes easily for a quick access to the valve. ● **Anti-sabotage locker** — used instead of a standard locker. Securely fixes an electric actuator on the valve to complicate an unauthorized dismount.
Power supply	**Pre-installed batteries** 4 × CR123A battery Up to 3 years of battery life. **Optional external power supply** 7.5–14 V⎓, up to 1.8 A The Recommended voltage of the power supply is 9 or 12 V⎓.The batteries serve as a backup when external power supply is connected
Enclosure	**Dimensions** ● **104 × 140 × 70 mm** ½" (DN 15) shutoff valve with an electric actuator. ● **104 × 150 × 70 mm** ¾" (DN 20) shutoff valve with an electric actuator. ● **104,5 × 159 × 70 mm** 1" (DN 25) shutoff valve with an electric actuator. ● **93 × 70 × 95 mm** Electric actuator. ● **75 × 27 mm** ½" (DN 15) shutoff valve. ● **80 × 32 mm** ¾" (DN 20) shutoff valve. ● **90 × 41 mm**

	1" (DN 25) shutoff valve.
	Weight
	● **869 g** ½" (DN 15) shutoff valve with an electric actuator.
	● **1012 g** ¾" (DN 20) shutoff valve with an electric actuator.
	● **1336 g** 1" (DN 25) shutoff valve with an electric actuator.
	● **536 g** Electric actuator.
	● **333 g** ½" (DN 15) shutoff valve.
	● **476 g** ¾" (DN 20) shutoff valve.
	● **800 g** 1" (DN 25) shutoff valve.
	Operating temperature range from 0°C to +60°C
	Operating humidity up to 95%
Colours	● Black ● White
Complete set	**WaterStop Jeweller** **4 CR123A batteries** Pre-installed. **Quick start guide**
Additional information	**Warranty** 24 months