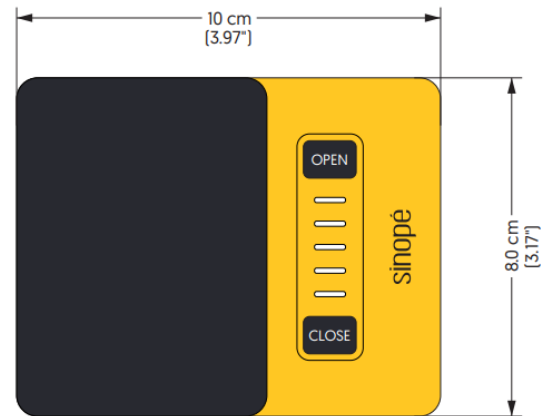
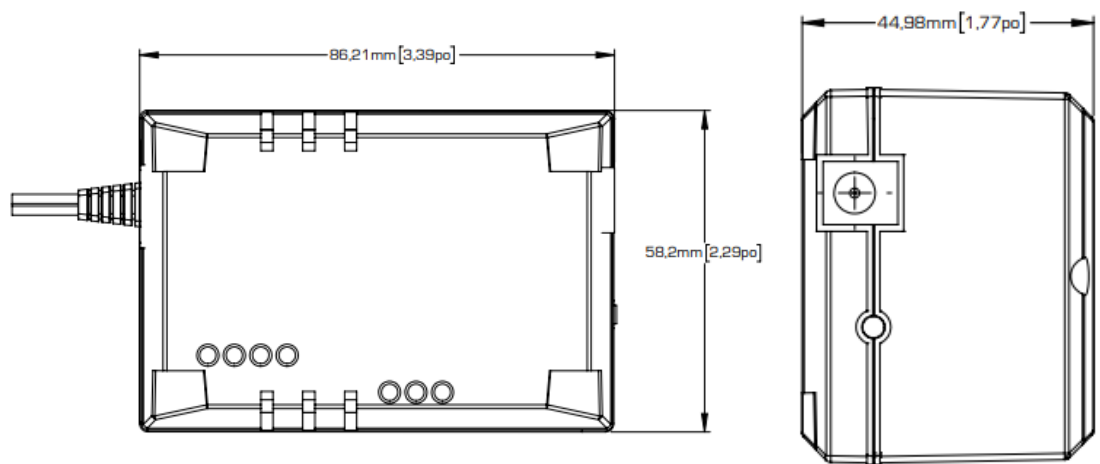


**Sedna Mesh main valve actuator****Wi-Fi****ACT4220WF-M-UPS**

FCC and IC certifications



Complies with EN62040-2

Complies with EN61000-3-2

Complies with EN61000-3-3

## Specifications

Type	<ul style="list-style-type: none"><li>• Sedna Mesh Wi-Fi valve actuator with durable and robust glass-fiber reinforced base</li></ul>
Color	<ul style="list-style-type: none"><li>• Yellow and black</li></ul>
Power supply	<ul style="list-style-type: none"><li>• 5V / 5W (included)<ul style="list-style-type: none"><li>◦ Power cable length: 10 ft.</li><li>◦ Requires nearby 120V outlet</li></ul></li><li>• Back-up power supply: self-recharging UPS (uninterruptible power supply) for 24 hours' autonomy included</li><li>• 4 AAA lithium batteries can be added for an extra 24 hours of autonomy in the event of a power failure lasting more than 24 hours</li></ul>
Transmission	<ul style="list-style-type: none"><li>• Wi-Fi Mesh transmission ("Sedna Mesh")<ul style="list-style-type: none"><li>◦ Remote communication via the Wi-Fi Mesh network deployed by the GT4220WF-M gateway</li><li>◦ IEEE 802.11 b/g/n @ 2.4 GHz</li></ul></li><li>• Zigbee Transmission</li><li>• Local communication via Zigbee communication protocol (main valve actuator acts as Zigbee / Wi-Fi Mesh gateway for home)<ul style="list-style-type: none"><li>◦ Zigbee 3.0 profile</li><li>◦ Frequency: 2.4 GHz</li><li>◦ Transmission power: +20 dBm</li><li>◦ Receptor sensitivity: -108 dBm</li><li>◦ Encryption key: AES-128</li></ul></li></ul>
Closing time	<ul style="list-style-type: none"><li>• 6.5 to 7 seconds</li></ul>
Motor	<ul style="list-style-type: none"><li>• Highly durable carbon brush motor</li></ul>
Diameter	<ul style="list-style-type: none"><li>• Compatible with ¾" and 1" diameter Sinopé ball valves</li></ul>
Temperature ranges	<ul style="list-style-type: none"><li>• Operating temperature: 1 °C to 40 °C (34 °F to 104 °F)</li><li>• Storage: -20 °C to 50 °C (-4 °F to 122 °F)</li></ul>
Maximum torque	<ul style="list-style-type: none"><li>• 2.5 N.m.</li></ul>
Installation	<ul style="list-style-type: none"><li>• Compact design for easy access once installed</li><li>• Install the actuator over the ball valve and insert the pin to secure it</li><li>• Install the ASC (uninterruptible power supply) between the 120V power supply and the actuator</li></ul>

**Device operation**

- Closing of the main water inlet as soon as a leak is detected by the associated Sinopé Zigbee detectors\*
- Sends alerts in the event of water detection, risk of frost, low battery (if batteries have been added)\*\*.

**Features**

- Remote control of the water supply by the building manager via a secure centralized management platform available on computer, smartphone and tablet\*\* (also possible by the end user via the Neviweb app at the building manager's discretion)
- Manual open/close control directly on the valve
- Self-testing system to ensure proper operation at all times

**Warranty**

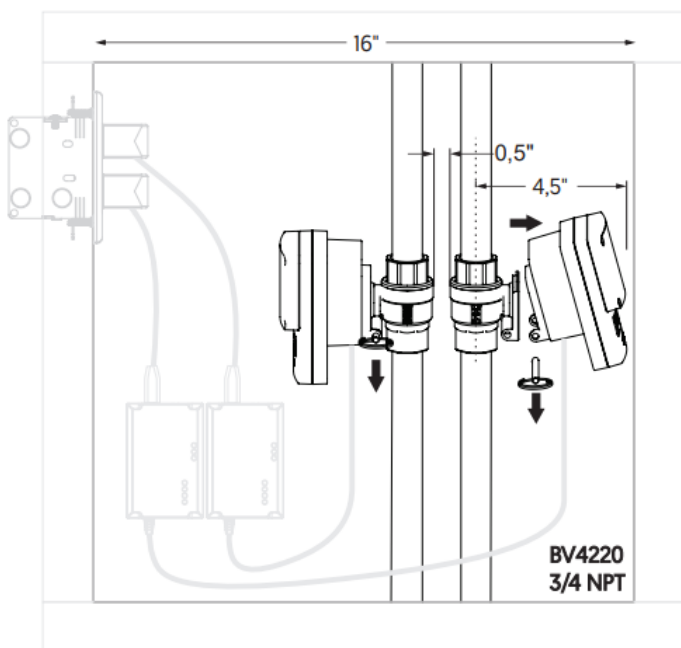
- 3 years

\*Requires Sinopé mesh water leak detectors.

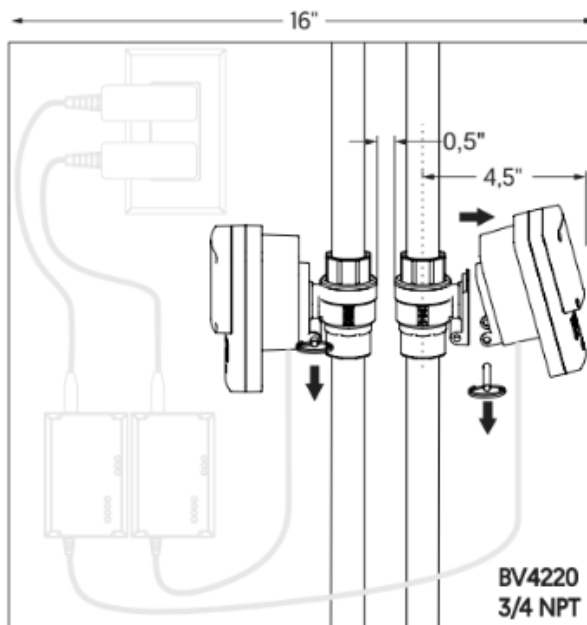
\*\*Remote access and alerts require a GT4220WF-M Sinopé Sedna Mesh gateway with permanent wired Internet connection (one gateway for up to 100 Main Valve Actuators) and the Sinopé Smart Systems paid platform.

**Recommended installation diagrams for Sinopé ball valves (not included)**

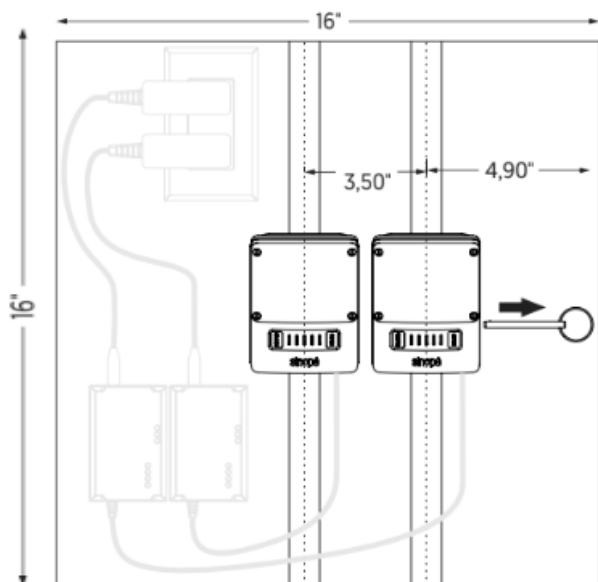
- ☐ Case 1: Electrical supply on the side, (depth required: minimum 3.17"), *example with 3/4" NPT ball valve*



- ☐ Case 2: Electrical supply on back wall (depth required: minimum 3.17" + depth of electrical outlet), *example with 3/4" NPT ball valve*



- ☐ Case 3: Side-by-side valves  
(required depth: minimum 4.54" + possibly if necessary, the depth of the electrical outlet)



**Model**

No. product	Description	Qty
ACT4220WF-M -UPS	Sedna Mesh Wi-Fi main valve actuator	

**Specifications are subject to change without notice**

The signature certifies that the installation complies with the above installation diagrams.

	Designation	Profession	Signature
Project's name:			
Address:			
Promotor:			
Builder:			
Consulting engineer:			
Contractor #1:			
Contractor #2:			
Contractor #3:			
Date:			