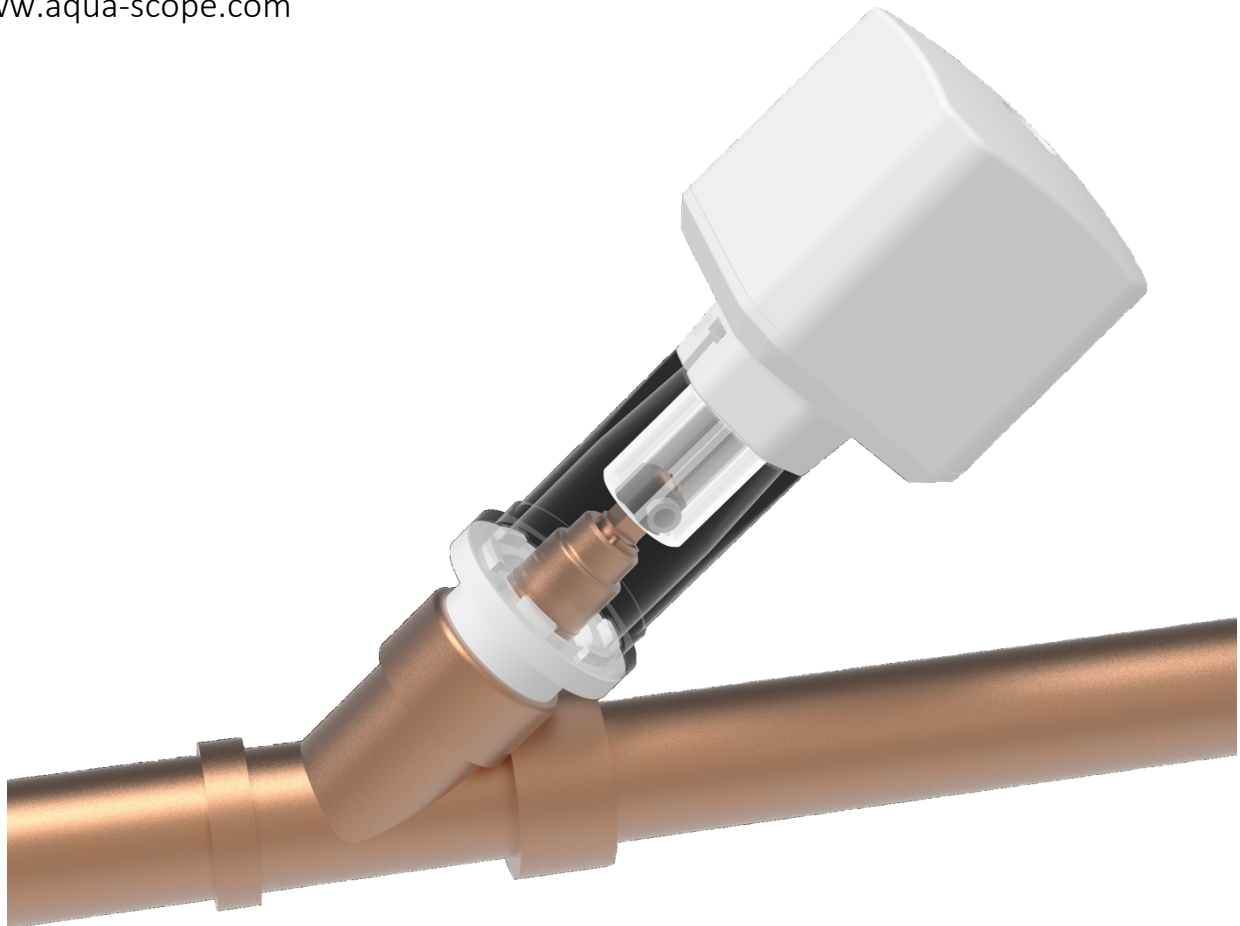




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Gate Valve Servo

For Angled and Straight Seats

The Angled Seat Valve Servo is a motor to retrofit existing and installed Gate or even Angled Seat Gate Valves popular in several European countries into smart water controlling devices. Its wireless communication capabilities are compatible with the LoRaWAN industry standard for easy integration into existing networks. Additionally, the device is controlled directly by the Aqua-Scope Monitor to compose a complete Leak Protection System. The motor is powered by a 12 V external power supply or - optional – a battery block.

Various adapter rings and a sophisticated patented connection system allow to apply the motor on all contemporary Angled Seat Valves from DN15 to DN32. The device can operate in difficult environmental conditions, even submerged under water, and allows to directly connect one additional local water sensor pad by cable.

Technical Data:

- SKU: **KFRLWE01**
- EAN: 425 129 578 040
- Mechanical Performance:
 - Rotation Speed: 15 rpm
 - Travel Time (full open close) 40 s
 - Mechanical Power: 10,95 W
 - Gearbox: 1 to 704 ratio
 - Noise: < 50 dB
 - Vibration: < 10 dB
- Installation space:
 - Min. Space from Wall: Pipe center min 35 mm from wall
 - Min. Space vertically: 175 mm above pipe center
 - Min. Space vertically for mounting 220 mm above pipe center
 - Adapters: M17, M22, M27, M30
 - Supported Stem height (from bottom of bonnet): 58 mm – 135 mm, raising and non-raising spindles
 - Supported Stem connector: 6, 7, 8 mm square
 - Supports Pipes DN15 ... DN 32
- Controls and interfaces:
 - Tree Color LED (red, yellow, green)
 - Single button for pairing, unpairing, local operation and alarm clearing
 - Jack to plug-in external water sensor pad for local loop operation.
- RF Communication LoRaWAN
 - Radio Chip: SX 1261
 - Standard: Class C
 - Frequency: 868...869 MHz, other frequencies such as US configurable
- Range: 150 ... 200 m (depends on gateway)
- Network Joining: OTAA
- Dimensions and Shipment:
 - Weight: 380 ... 420 gr (depends on adapters used)
 - Dimensions: 70 x (170 ... 195) mm
- Electrical data:
 - Voltage: 12 V DC
 - Max. Current: < 1000 mA
- Environmental Conditions and Trading
 - Shipment/Storage: -30 °C ... +70 °C
 - Operation: - 20 °C ... 60 °C
 - Outdoor Use: IP67 (to power supply coupling), Power Supply is IP20
 - UN Customs Tariff: 85011093900

Scope of Delivery

- Motor with power cable,
- 4 * adapter rings to connect to the valve housing
- 3 different connectors for the stem
- Distance Ring for EWE Valve Design
- Holder plus 2 wrist bands
- Main sleeve plus internal coupler
- Two Distance rings for raising stem valves
- External wired Flood Sensor
- External Power Supply
- Spare Hand Wheel
- Users Manual



(*) Please note that the device is not exposed to drinking water there therefore not subject to European Drinking Water directive.



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