

# Motor Servo for Angled Seat Valves

SKU: KFRLWE01

Version: 1.0.0

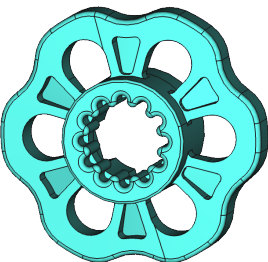
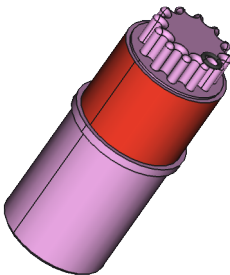
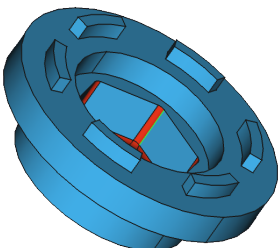
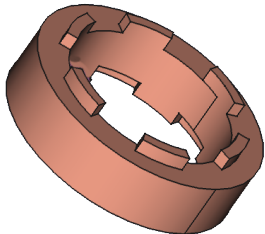


## Product Description

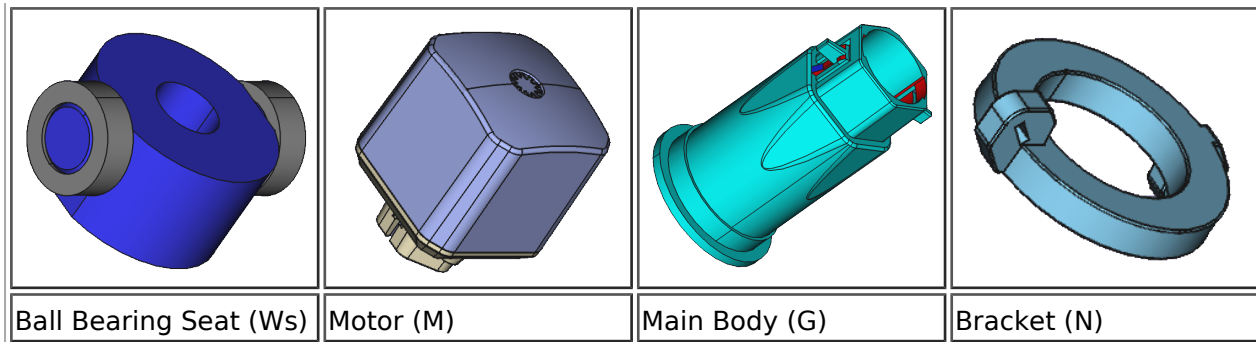
The Angle Seat Valve Servo is a motor for retrofitting existing and installed gate or angled seat gate valves, popular in several European countries, into intelligent water control devices. It can be installed and removed without any special tools and without interrupting water supply or cutting even into the pipe. The device supports LoRaWAN industry standard for easy integration into existing networks, and it can be controlled directly from an Aqua-Scope Monitor using LoRaP2P. One local button allows manual operation. The motor is powered by an external 12V power supply.

Various adapter rings and an ingenious connection system allow the motor to be used on all modern angled seat valves from DN15 to DN32. The unit can operate in harsh environments, even submerged, and can be wired directly to an additional local water sensor pad.

## Parts

			
Handwheel (H)	Inner Coupling (K)	Adapter (Ax)	Distance Rings (D1,D2)

## Users and Installation Manual: Motor Servo for Angled Seat Valves (KFRLWE01)



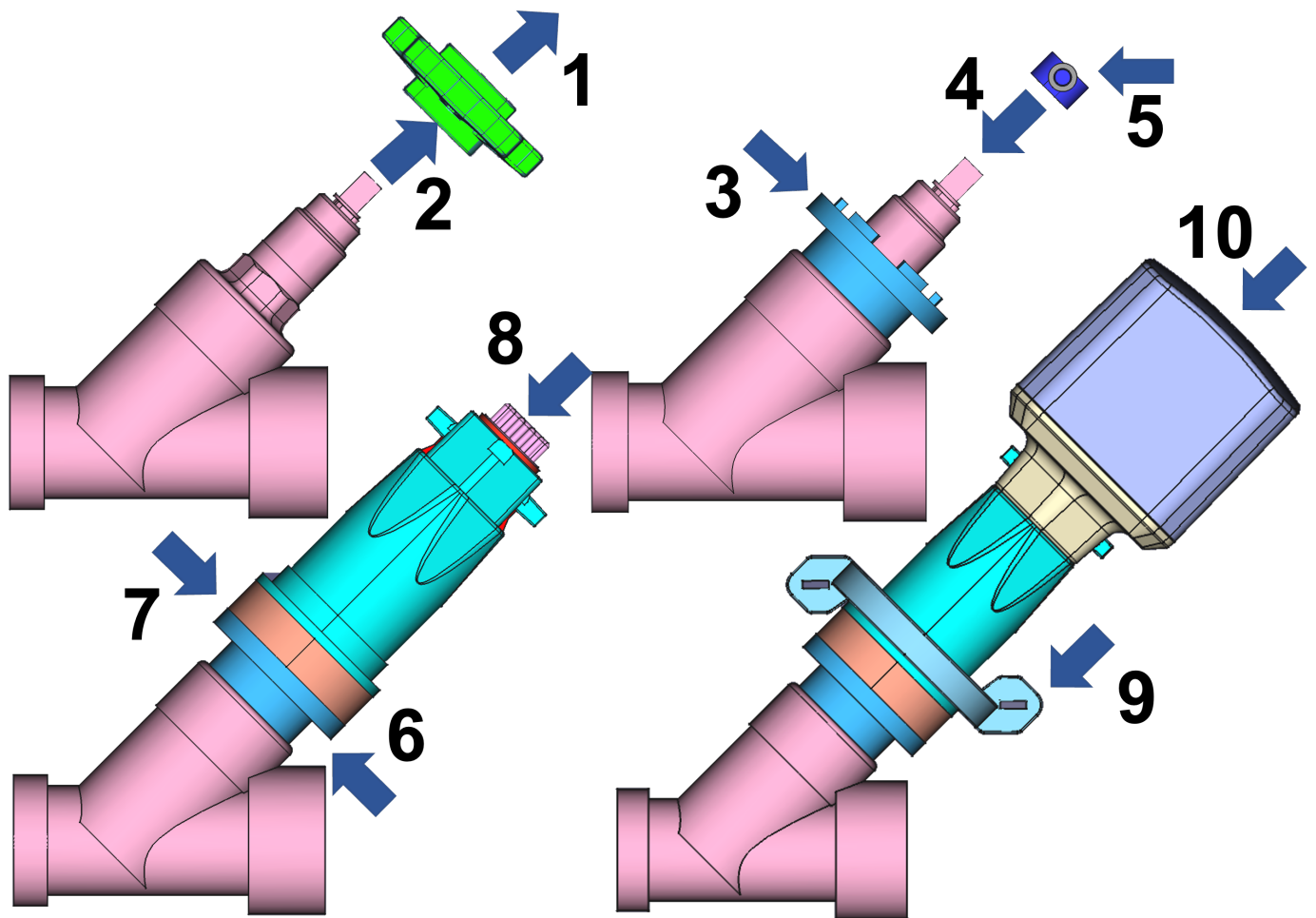
## Mounting

The motorized actuator can be used with all commercially available angle seat valves. However, due to the variety of mechanics, certain adaptations must be made. For installation, leave the valve open or rotate it to the open position. Plumbers recommend that the valve is fully opened first and then lightly closed by turning it clockwise approximately 2 turns.

1. Remove the center screw from the hand wheel. Some manufacturers do not use the typical green handwheel. However, the metal stem is always hidden under the plastic. Keep the screw for future use.
2. Remove the handwheel.
3. Select one of the 4 adapters (A1...A4) for wrench size M17, M22, M27, or M30 that fits snugly on the bottom of the valve bonnet (hexagonal or rectangular shape). If none of the supplied adapters fit the valve, please take a picture, and send it to support@aqua-scope.com. This helps us to develop and manufacture adapters for valves we don't know yet. In the meantime, there is a solution to the problem. See section 'Make an adapter if no adapter fits' below for instructions.
4. Select the correct ball bearing seat (W1 ... W3) and place it on the stem. If your stem is larger than the 8x8 mm required by the largest bearing seat, the KFR cannot be used on your valve. If your stem is even smaller than the smallest ball bearing seat of 6x6 mm, you can solve the problem in the same way as for the adapter. See instructions below.
5. Tighten the ball bearing seat with the screw from step 1.
6. Depending on the size of the valve bonnet and stem, you may need additional distance rings (D1, D2) on top of the adapter ring. If the inner coupling (K) cannot be pushed all the way into the main body (G) without sitting on the valve body, or if the main body cannot be connected to the adapter ring already installed, a distance ring (D1 or D2) must be placed between the adapter ring (Ax) and the main body (G). This is usually the case with rising stem valves. The spacers are 12 or 24 mm, and they can be combined. Use the spare handwheel to open and close the valve for verification.
7. Place the housing on top of the adapter or distance ring.
8. Place the inner coupling in the housing. It must pass over the ball bearings in both the open and closed positions. The housing is clear to check this. If it does not fit, use other distance rings in step 6. Please use the spare handwheel to open and close the valve to check.
9. The bracket is required to hold the entire assembly in place if the valve is not installed in an upright position. It is recommended that the bracket be used in any case. Tighten around the pipe using the two zip ties provided. You can remove the zip ties at any time.
10. Finally, place the motor on top of the housing. You may need to turn the inner coupling a little if

## Users and Installation Manual: Motor Servo for Angled Seat Valves (KFRLWE01)

the motor does not fit right away.



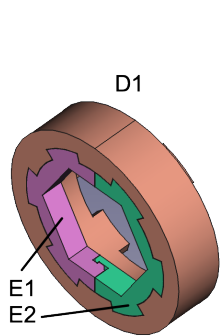
### Make an adapter if no adapter fits

The product is supplied with a portion of epoxy. This is a two-part mixture. Mix the two components by kneading until the mass has a similar color. Select an adapter ring that just fits over the base structure of the valve bonnet and fill the gaps with the prepared epoxy. Allow the epoxy to cure. Note that the epoxy will adhere to the metal body. If you do not want the epoxy to stick, coat the metal body with some oil to allow easy removal of the epoxy filled adapter.

In the same way, you can put epoxy in one of the bearing seats if your stem is smaller than the is smaller than the 6x6mm of the smallest seat. Make sure the stem is positioned right in the centre of the ball bearing seat.

### Valves from Wilhelm Ewe GmbH & Co. KG

## Users and Installation Manual: Motor Servo for Angled Seat Valves (KFRLWE01)



This company's valves have a very special design. You must insert the split ring (E1+E2) into the 24 mm distance ring (D1) instead of using one of the adapters A1 ... A4. No further distance ring is needed but a small ring DE must be placed below the ball bearing seat to hold down the large fat chamber.

### External Flood Sensor

The unit allows an optional wired flood sensor to be attached. There is a connector on the power cord next to the motor. Remove the blue protective pad and plug in the sensor. Please use some force to push the connector to ensure a waterproof connection. If the sensor head detects water, a flood alarm will sound, the valve will close, and the alarm will be indicated by a buzzer and LEDs. Once the sensor head is free of water, you can clear the alarm by pressing the button for 2 seconds. It is also possible to clear the alarm with a wireless LORA command. In both cases, an Alarm Clear report is sent uplink to the LORA network.

### Manually Operating the motor

You can open or close the valve by briefly pressing the button. If you press the button while the motor is running, the motor stops moving and will reverse direction with next push.

The unit must be calibrated to recognize the end positions of the valve. Once these end positions are known, the motor will stop softly at that position and not "slam into the wall" to protect the mechanics and ensure long life and reliable operation. After power up, the unit will make some short movements to determine if the last position was open or close. The first open or close operation is used to perform calibration for both end points. No special user interaction is required for calibration.

### Connect to LORA network

Please register the device with its three keys with your LoRaWAN server before you use it. before using it. The device EUI is printed on the device. Enter this key and your registered email address to <https://aqua-scope.com/lora> to obtain the missing keys. The email address is the account email from Aqua-Scope Shop purchases or the data is provided by your point of sale. If there is no LoRaWAN network or the LORA keys are not registered in the key, the LoRaWAN joining process will fail. LoRaWAN connection will fail after about 25 seconds and the device will automatically switch to LoRaP2P mode for connection to the Aqua-Scope Monitor. Please note that the device always tries to join a LoRaWAN network after power on.

### LEDs

The unit has a two-color LED with the following meaning

- Green slow blinking: Valve is open
- Red slow blinking: Valve is closed
- Red/green flashing: Motor is running
- Red flashing: flood alarm

## Users and Installation Manual: Motor Servo for Angled Seat Valves (KFRLWE01)

- Red triple flash: motor blocked
- Yellow blinking: join process to LoRaWAN ongoing

### LoRaWAN Payload Commands (Payload Format)

LoRaWAN commands can be daisy chained into the payload up to the defined maximum payload size of 51 bytes. This means that for all commands sent to defined number of bytes in the payload is required to avoid misinterpretation of command and/or command values in the receiver side. **All uplink and downlink commands use FPort=10.**

- **Uplink Command Hardware Version Report: 0x03 - HW - CAP\_MSB CAP\_LSB (4 Byte)** This command reports the hardware version and a bitmap of the capabilities of the device. It is sent unsolicited as the first command during boot-up and as replying command to downlink command *Hardware Version Get*. HW is a single byte indicating the version of the hardware. The bitmap indicates the different capabilities of the device.
- **Uplink Command Configuration Report: 0x04 - IDX - VAL\_MSB - VAL\_LSB (4 Byte)** This command reports a configuration parameter of the device: IDX is the number of the configuration parameter. The 16 Bit VAL is the parameter itself. Configuration parameters are always 16 Bit values. The table below describes the configuration parameters and their values.
- **Uplink Command Sensor Report: 0x06 - ID - VAL\_MSB - VAL\_LSB (4 Byte)** This command reports sensor values. The ID indicates the sensor type and defines the format of the 16-Bit VAL. The sensor types of this devices are listed below.
- **Uplink Command Firmware Version Report: 0x0a - VER\_MSB VER\_2 VER\_3 VER\_LSB (5 Byte)** This command reports the 32-bit value of the current firmware. It is sent unsolicited as the first command during boot-up and as replying command to downlink command 'Hardware Version Get'.
- **Uplink Command Alarm Report: 0x0b - STATE - TYPE - VAL\_MSB - VAL\_LSB (5 Byte)** This command reports start and end of alarms. The STATE-Byte indicates the status of the alarm (0x01 = active, 0x00 = inactive). The TYPE Byte indicates the type of alarm and defines the content of the 16 Bit VAL. Possible alarm IDs and the values reported are listed below.
- **Downlink Command Hardware Version Get: 0x03 - (1 Byte)** This command calls for a Hardware Version Report sent upstream
- **Downlink Command Configuration Set: 0x04 - IDX - VAL\_MSB - VAL\_LSB (4 Byte)** This command allows setting configuration parameters of the device: IDX is the number of the configuration parameter. The 16 Bit VAL is the parameter itself. Configuration parameters are always 16 Bit Values. The table below describes the configuration parameters and its values.
- **Downlink Command Sensor Get: 0x06 - ID (2 Byte)** This command requests the report of sensor values. The ID indicates the sensor type. The sensor types of the devices are listed below.
- **Downlink Command Valve Position: 0x07 - STATE (2 Byte)** This command turns the water valve - if associated - into OPEN (state = 1) or CLOSE (state = 0) position
- **Downlink Command Alarm Clear: 0x0b - TYPE (2 Byte)** This command clears an alarm. TYPE is the type of alarm to be cleared. Type = 0 clears all active alarms. For other types of alarms to be cleared please refer to the uplink command 0x0b.
- **Downlink Command Configuration Get: 0x14 - IDX (2 Byte)** This command allows reading the configuration value IDX. The device will respond with an upstream command Configuration

## Users and Installation Manual: Motor Servo for Angled Seat Valves (KFRLWE01)

Report

- **Downlink Command Valve Status Get: 0x17 - (1 Byte):** This command requests a command "Device Status Report" sent upstreams.

### LoRaWAN Sensor Types

The following sensor types are supported by the Aqua-Scope Monitor.

- 0x01: Temperature: VAL is temperature in 1/10 Degree Celsius, (2-complement). *Example: 0x06 0x01 0x00 0xCD => Temperature 0x00CD = 205 = 20.5 C., 0x06 0x01 0xFF 0xEA => Temperature 0xFFEA = -20 = -2 C*

### LoRaWAN Valve Positions for Command 0x07

- 0x00 Valve Close
- 0x64 Valve Open

### LoRaWAN Alarm Types

The following alarmtypes are supported.

- 1 (0x01): Flood Sensor Tripped. VAL is 0x01 or 0x00.
- 2 (0x02): Freeze/Frost Danger. VAL is actual temperature.
- 3 (0x03): Temperature out of limits, VAL is actual temperature. For encoding of temperature please refer to section 'LoRaWAN Sensor Types'.

### LoRaWAN Configuration Parameters

All Configuration Parameters are 2 Byte values that can be set and read out using LoRaWAN 'Configuration Get' and 'Configuration Set' commands.

- **Parameter 1 - Status interval:** The device reports regularly to the LORA network. This parameter defines the time interval for these reports in minutes. The default is 0x015 = 15 minutes. The value range is 0x0005 - 0x10E0
- **Parameter 2 - Message type:** This parameter defines whether confirmed or unconfirmed messages are sent over LoRaWAN. The default is 0x01 = confirmed message. The value 0x00 sets to unconfirmed message.
- **Parameter 3 - Scale value for temperature report:** This parameter defines whether a temperature value should be in Celsius (0x00) or Fahrenheit (0x01). The default setting is Celsius.
- **Parameter 4 - Repeat alarm report:** This parameter defines how an alarm report is sent to the LoRa network. The parameter combines two different values: The more significant byte describes how often an alarm packet is retransmitted. The default setting here is 0x03 = 3 times. A value between 0x00 (no repetition) and 0xff (unlimited repetition) can be selected. The least significant byte defines the repeat interval in minutes. Here the default setting is 0x01. This means the default parameter is 0x0301.
- **Parameter 5 - Regular valve training:** A valve should be moved regularly to maintain its smooth operation. The device can perform this training independently from control by a LoRa

## Users and Installation Manual: Motor Servo for Angled Seat Valves (KFRLWE01)

network. The parameter combines two different values: The higher-order byte describes whether (1) or not (0) valve training should take place. The low-order byte defines the interval of the training in days. Values between 1 and 30 days are possible. The default value is 0x0107, i.e. training takes place every 7 days.

- **Parameter 6 - Local display:** With this parameter the buzzer and the LEDs can be activated (0x01) or deactivated (0x00) directly at the device. The lower byte defines the behavior of the buzzer, the higher byte the behavior of the LED. The default value is 0x0101, i.e. both buzzer and LED are active (for example during motor movement).
- **Parameter 7 - Threshold value for temperature report:** This parameter defines at which temperature change an additional temperature report is sent in addition to the regular temperature report. The value is given in 0.1 degrees Celsius and must be greater than 0x000a (= 1 degree). The default value is 0x000a.
- **Parameter 8 - Motor Power:** This parameter allows limiting the motors torque. Max torque is 0x64 = 100 percent. Valid values are 0x50 .. 0x64. The default value is 0x0050.
- **Parameter 9 - Valve Turns:** Set the total turns of the valve. This value is set by calibration but can be changed manually if desired.
- **Parameter 10 - Automatically close valve when external flood sensor trips:** On default (value=0x01) the valves will close when the sensor trips but setting the value to 0 will suppress this function. The alarm is still reported and shown on the device.
- **Parameter 11 - Buzzer notify when join the server:** When the device joins to a LoRaWAN server, the buzzer will sound (value=1). This function can be suppressed with value = 0.

## Scope of Delivery

- Motor with power cable
- 4 \* adapter rings to connect to the valve housing
- 3 different connectors for the stem
- One small Distancering and the Splitring for EWE Valve Design
- Holder plus 2 wrist bands
- Main sleeve plus internal coupler
- Two Distance rings
- External wired Flood Sensor
- External Power Supply
- Spare Hand Wheel
- Users Manual
- 57 gr Epoxy

## Technical Data

- SKU: KFRLWE01
- EAN: 4251295783 277
- Mechanical Performance:
  - Rotation Speed: 15 rpm
  - Travel Time (full open close): 40 s
  - Mechanical Power: 10,95 W

## Users and Installation Manual: Motor Servo for Angled Seat Valves (KFRLWE01)

- 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 installation: 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 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

## Support and Contact

Should you encounter any problem, please give us the opportunity to address it before returning this product. Please check our website [www.aqua-scope.com](http://www.aqua-scope.com) and particularly the support section for answers and help. You can also send a message to [info@aqua-scope.com](mailto:info@aqua-scope.com).



## Users and Installation Manual: Motor Servo for Angled Seat Valves (KFRLWE01)

While the information in this manual has been compiled with great care, it may not be deemed an assurance of product characteristics. Aqua-Scope shall be liable only to the degree specified in the terms of sale and delivery. The reproduction and distribution of the documentation and software supplied with this product and the use of its contents is subject to written authorization from Aqua-Scope. We reserve the right to make any alterations that arise as the result of technical development.

- Phone: +372 (0) 6248002
- eMail: info@aqua-scope.com
- Web: www.aqua-scope.com

### Declaration of Conformity

Aqua-Scope Technology OÜ, Sakala 7-2, 10141 Tallinn, Republic of Estonia, declares that this radio emitting device works on the following frequencies:



**Български** С настоящото Aqua-Scope Technology OÜ декларира, че този тип радиосъоръжение KFRLWE01 е в съответствие с Директива 2014/53/ЕС. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce).

**Čeština** Tímto Aqua-Scope Technology OÜ prohlašuje, že typ rádiového zařízení KFRLWE01 je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce).

**Dansk** Hermed erklærer Aqua-Scope Technology OÜ, at radioudstyrstypen KFRLWE01 er i overensstemmelse med direktiv 2014/53/EU. EUoverensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce).

**Deutsch** Hiermit erklärt Aqua-Scope Technology OÜ, dass der Funkanlagentyp KFRLWE01 der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce).

**Eesti** Käesolevaga deklareerib Aqua-Scope Technology OÜ, et kesolev raadioseadme tüüp KFRLWE01 vastab direktiivi 2014/53/EL nõuetele. ELi vastavusdeklaratsiooni terviklik tekst on kättesaadav järgmisel internetiaadressil: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**English** Hereby, Aqua-Scope Technology OÜ declares that the radio equipment type KFRLWE01 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Español** Por la presente, Aqua-Scope Technology OÜ declara que el tipo de equipo radioeléctrico KFRLWE01 es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Ελληνικά** Με την παρούσα ο/η Aqua-Scope Technology OÜ, δηλώνει ότι ο ραδιοεξοπλισμός KFRLWE01 πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

## Users and Installation Manual: Motor Servo for Angled Seat Valves (KFRLWE01)

**Français** Le soussigné, Aqua-Scope Technology OÜ, déclare que l'équipement radioélectrique du type KFRLWE01 est conforme la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible l'adresse internet suivante: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Hrvatski** Aqua-Scope Technology OÜ ovime izjavljuje da je radijska oprema tipa KFRLWE01 u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Italiano** Il fabbricante, Aqua-Scope Technology OÜ, dichiara che il tipo di apparecchiatura radio KFRLWE01 conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE disponibile al seguente indirizzo Internet: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Latviešu** Ar šo Aqua-Scope Technology OÜ deklarē, ka radioiekārta KFRLWE01 atbilst Direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce) Lietuvių Aš, Aqua-Scope Technology OÜ, patvirtinu, kad radijo įrenginių tipas KFRLWE01 atitinka Direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo internet adresu: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Magyar** Aqua-Scope Technology OÜ igazolja, hogy a KFRLWE01 típus rádiberendezés megfelel a 2014/53/EU irányelvnek. Az EUMegfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Malti** B'dan, Aqua-Scope Technology OÜ, niddikjara li dan it-tip ta' tagħmir tar-radju KFRLWE01 huwa konformi madDirettiva 2014/53/UE. It-test kollu tad-dikjarazzjoni ta' konformit tal-UE huwa disponibbli f'dan l-indirizz talInternet li ġej: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Nederlands** Hierbij verklaar ik, Aqua-Scope Technology OÜ, dat het type radioapparatuur KFRLWE01 conform is met Richtlijn 2014/53/EU. De volledige tekst van de EUconformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Polski** Aqua-Scope Technology OÜ niniejszym oświadcza, że typ urządzenia radiowego KFRLWE01 jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodność I UE jest dostępny pod następującym adresem internetowym: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Português** O(a) abaixo assinado(a) Aqua-Scope Technology OÜ declara que o presente tipo de equipamento de rádio KFRLWE01 está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Română** Prin prezenta Aqua-Scope Technology OÜ declară că tipul de echipamente KFRLWE01 este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Slovensko** Aqua-Scope Technology OÜ potrjuje, da je tip radijske opreme KFRLWE01 skladen z irektivom 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Slovensky** Aqua-Scope Technology OÜ týmto vyhlasuje, že rádiové zariadenie typu KFRLWE01 je v slade so smernicou 2014/53/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Soumi** Aqua-Scope Technology OÜ vakuuttaa, että radiolaitetyyppi KFRLWE01 on direktiivin 2014/53/EU mukainen. EUvaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa

## Users and Installation Manual: Motor Servo for Angled Seat Valves (KFRLWE01)

internetosoitteessa: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

**Svenska** Härmed försäkrar Aqua-Scope Technology OÜ att denna typ av radioutrustning KFRLWE01 överensstämmer med direktiv 2014/53/EU. Den fullständiga texten till EUförsäkran om överensstämmelse finns på följande webbadress: [www.aqua-scope.com/ce](http://www.aqua-scope.com/ce)

### Disposal Guidelines

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging health and well-being.

