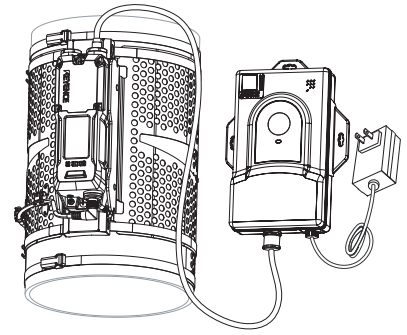
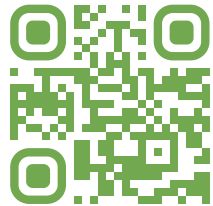


Location:



EVOFR200KIT, EVOFR300KIT, EVOFR500KIT,  
EVOFR800KIT  
Evolution Flow Sensor Module, Clamp-on Meter  
**Installation Guide**



Model Numbers	Feature Highlights
<input type="checkbox"/> <b>EVOFR200KIT</b> FLOW SENSOR, Clamp-on Meter, 1-1/2 to 2"	<ul style="list-style-type: none"><li>• Flow Sensor Meter</li><li>• 24V DC Power Supply 60"</li><li>• 30 Foot M12 Cable</li><li>• Clamp-On Meter - Pipe Sizes ranging from 1-1/2" to 8" - Please see "Supported Pipe Diameter" Chart on dimension page for appropriate sizing.</li></ul>
<input type="checkbox"/> <b>EVOFR300KIT</b> FLOW SENSOR, Clamp-on Meter, 2-1/2 to 3"	
<input type="checkbox"/> <b>EVOFR500KIT</b> FLOW SENSOR, Clamp-on Meter, 4" to 5"	
<input type="checkbox"/> <b>EVOFR800KIT</b> FLOW SENSOR, Clamp-on Meter, 6" to 8"	
Repair Parts	Warranty
<input type="checkbox"/> <b>EVOAPWR24</b> Replacement Power Supply 24VDC	<p><b>Limited Lifetime</b> - to the original end purchaser in consumer/residential installations.</p> <p><b>10 Years</b> - for commercial/industrial installations. Refer to <a href="http://www.symmons.com/warranty">www.symmons.com/warranty</a> for complete warranty information.</p> 
	Compliance
	<ul style="list-style-type: none"><li>• IC: 24889-WW08189</li><li>• FCC ID: 2ASQP-WW08189</li></ul> <p>This device complies with part 15 of the FCC Rules.</p>

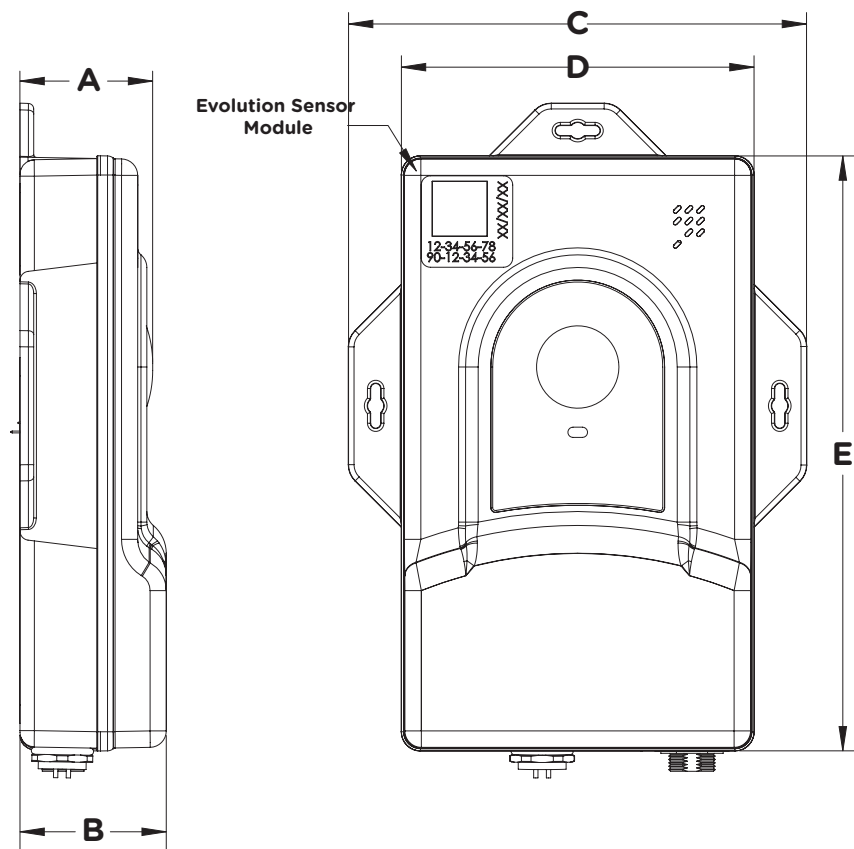
## Architectural/ Engineering Specification

Symmons Evolution EVOFR200KIT, EVOFR300KIT, EVOFR500KIT, EVOFR800KIT Includes flow sensor module, 24 V DC power supply, 30 foot M12 cable, and clamp-on meter (pipe sizes ranging from 1-1/2" to 8"). 10 Year Commercial Warranty. FCC rules compliant.

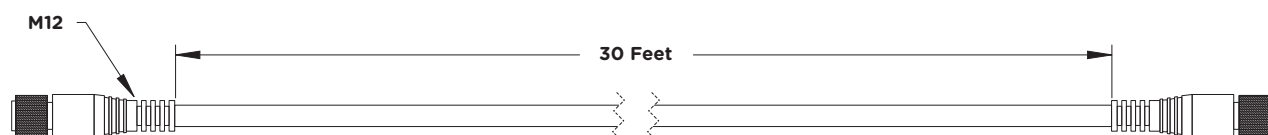
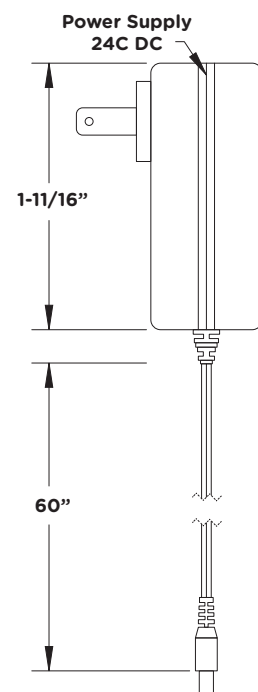
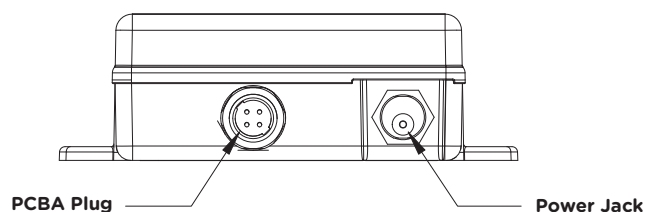
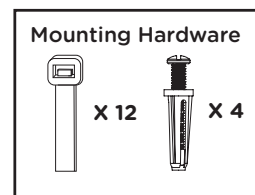


EVOFR200KIT, EVOFR300KIT, EVOFR500KIT,  
EVOFR800KIT

### Dimensions - Flow Sensor (Included in Kit)



Measurement	
A	1-7/16"
B	1-5/8"
C	5"
D	3-7/8"
E	6-1/2"



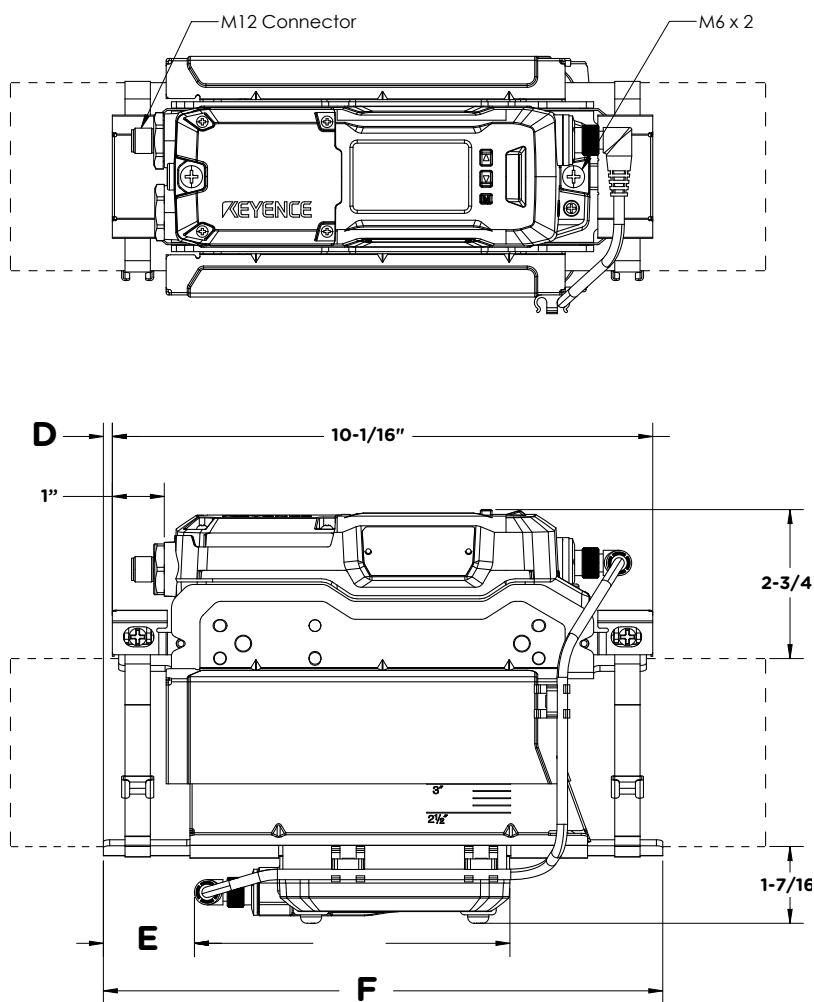


EVOFR200KIT, EVOFR300KIT, EVOFR500KIT,  
EVOFR800KIT

**Dimensions - EVOFR200KIT & EVOFR300KIT Clamp On Meter (Included in Kit)**

Clamp on Meter Dimensions (mm)						
Model	A	B	C	D	E	F
EVOFR200KIT	76mm	71mm	0mm	-7.9 to -1.1 1-1/2" (40A): -2.6 2" (50A): -6.7	(4.4)	247mm
EVOFR300KIT	114mm	73mm	7.9mm	-1.6 to 14.1 2-1/2" (65A): 9.3 3" (80A): 4.3	(43.2)	265mm

\* The Correct Orientation is one in which the upper bracket is to the right of the lower bracket

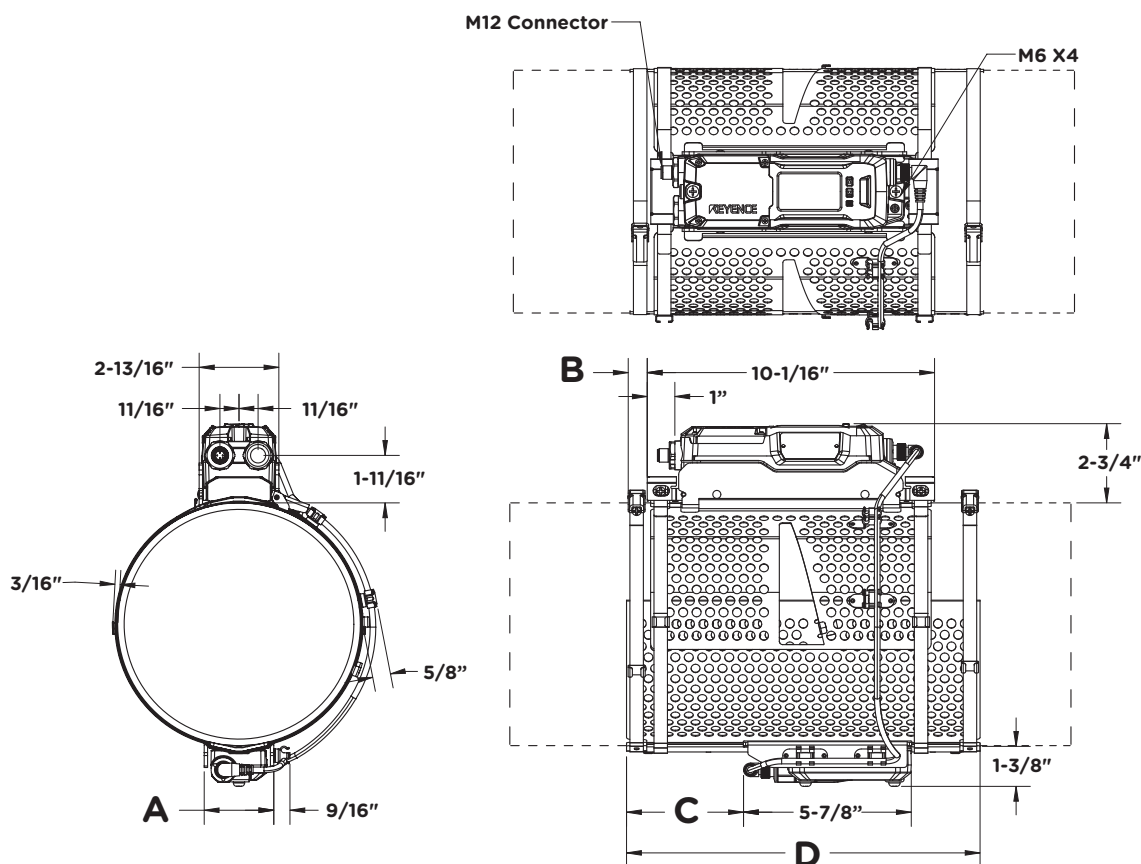


EVOFR200KIT, EVOFR300KIT, EVOFR500KIT,  
EVOFR800KIT

### Dimensions - EVOFR500KIT & EVOFR800KIT Clamp On Meter (Included in Kit)

Clamp on Meter Dimensions (mm)				
Model	A	B	C	D
<b>EVOFR500KIT</b>	57mm	14.1 to 34.6 4" (100A): 29 5" (125A): 19	76.9mm	306mm
<b>EVOFR800KIT</b>	62mm	17.1 to 42.9 6" (150A): 37.6 8" (200A): 18.5	56mm	315mm

\* The Correct Orientation is one in which the upper bracket is to the right of the lower bracket



Supported Pipe Diameter								
Model	EVOFR200KIT		EVOFR300KIT		EVOFR500KIT		EVOFR800KIT	
Outer Diameter (mm)	Ø44 to Ø55	Ø55 to Ø64	Ø64 to Ø83	Ø83 to Ø100	Ø100 to Ø127	Ø127 to Ø152	Ø152 to Ø191	Ø191 to Ø220
NPS (Nominal Pipe Size)	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
DN (Diameter Nominal)	40 A	50 A	65 A	80 A	100 A	125 A	150 A	200 A





EVOFR200KIT, EVOFR300KIT, EVOFR500KIT,  
EVOFR800KIT

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## **Installation Training Checklist**

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### **Install Gateway**

1. Open the Box and Find a location to plug in the Gateway
2. Unpack, assemble, and plug Gateway to 120VAC Supply

### **Setup Custom on Evolution App**

3. Creates and Configure Customer Property
4. Creates Customer account and send Email Invitation
5. Customer Logs into water.symmons.com
6. Download the Evolution App for iOS or Android and Sign-In
7. Scan Gateway QR Code and Complete App Steps

### **Install Temperature Sensor**

8. Plug a Temperature Probe into a Sensor Module and Turn ON
9. Install Temperature Sensor
10. Scan Temperature Sensor Module and Complete App Steps

### **Install Pipe Clamp-On Flow Sensor**

11. Plug Clamp-on Keyence Sensor Probe into Sensor Module and plug power supply into a 120VAC outlet
12. Install Clamp-on Flow Sensor onto pipe
13. Scan Sensor Module and Complete App Steps

### **Configure System**

14. Setup Other Users
15. Configure Alerts
16. Set Meeting for System follow-up (1-2 weeks from Training)

EVOFR200KIT, EVOFR300KIT, EVOFR500KIT,  
EVOFR800KIT

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## Install Gateway

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### 1. Location

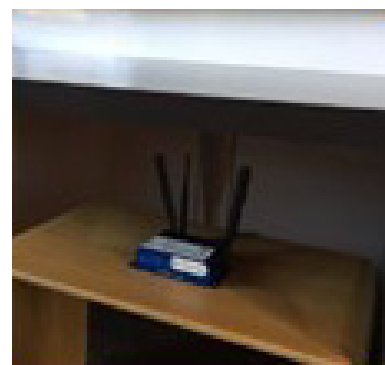
Find a central location for the Gateway. Location should be a secure area not enclosed in metal. Recommended locations include:



**Mechanical Room**



**Admin. Office**



**Front Desk**

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### 1. Connect Gateway Hardware

- A.** Locate Gateway, Power Adapter, (1x) Thin Antenna, (2x) Wide Antennas



- B.** Connect Antennas and Power Adapter to the back of the Gateway



**Note:** After plugging the Gateway power adapter into an outlet, it could take a few minutes to boot up.



EVOFR200KIT, EVOFR300KIT, EVOFR500KIT,  
EVOFR800KIT

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## Customer App Setup

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1. Create and Configure Customer Property
2. Create Customer account & send Email Invitation
3. Customer Logs into water.symmons.com
4. Download the Evolution App for iOS or Android and Sign-In



Scan the Provided QR Code with your Smartphone or camera to download the evolution App.

5. Scan Gateway QR Code and Complete In-app Steps





EVOFR200KIT, EVOFR300KIT, EVOFR500KIT,  
EVOFR800KIT

## Installation - Pipe Clamp-On Flow Sensor

### Tools Required

- Philips-head screwdriver
- The pipe measuring kit include in welcome pack
- Measuring tape to check mounting clearances

### 1. Setup Custom on Evolution App

- A. Determine which sensor for your pipe size,

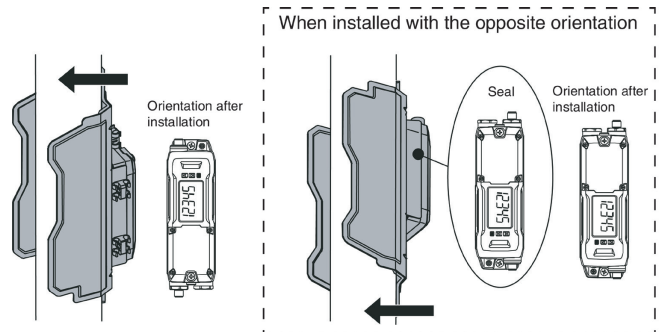
Supported Pipe Diameter								
Model	EVOFR200KIT		EVOFR300KIT		EVOFR500KIT		EVOFR800KIT	
Outer Diameter (mm)	Ø44 to Ø55	Ø55 to Ø64	Ø64 to Ø83	Ø83 to Ø100	Ø100 to Ø127	Ø127 to Ø152	Ø152 to Ø191	Ø191 to Ø220
NPS (Nominal Pipe Size)	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
DN (Diameter Nominal)	40 A	50 A	65 A	80 A	100 A	125 A	150 A	200 A

### 2. Find the best location to mount.

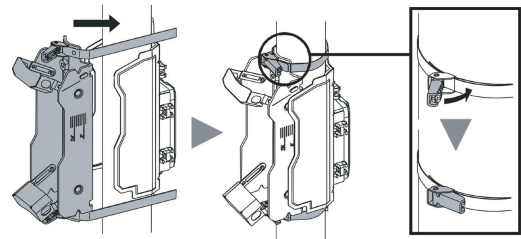
- A. The sensor connects to the module box with either a 10-foot or 30-foot cable and the module box has a 4-foot power cable that must be plugged into an electrical outlet.
- B. Select a section of a straight pipe that is clean with no insulation, rust, or seams. If there is insulation on the pipe, cut away a space slightly larger than the sensor.
- C. Look for a pipe that is horizontal or is vertical with an upward flow
- D. There are two different types of brackets. FD-Q for smaller pipes and FD-R for larger pipes.

### 3. Mounting EVOFR200KIT and EVOFR300KIT

- A.** Determine the installation orientation of the lower bracket. The orientation of the main unit's display is determined by the installation orientation of the lower bracket.

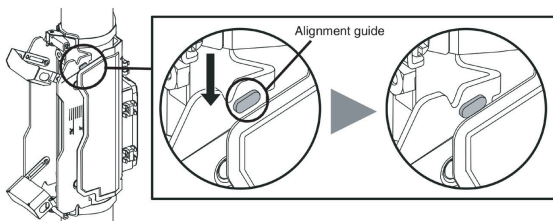


- B.** Attach the lower bracket and the upper bracket so that they are pressed against the pipe, and then use the metal belts to lightly fix these brackets in place.

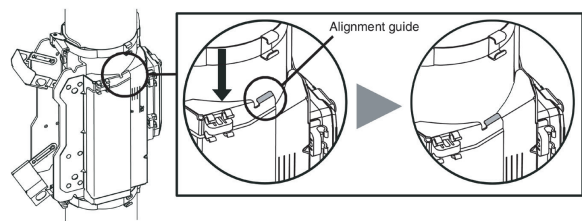


- C.** Adjust the position of the upper bracket to align the alignment guide with the lower bracket.

● **FD-R50**

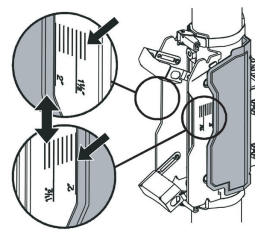


● **FD-R80**

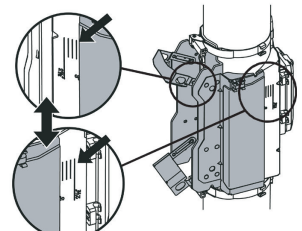


- D.** Adjust the position of the upper bracket so that the scale position is the same on the left and right.

● **FD-R50**



● **FD-R80**



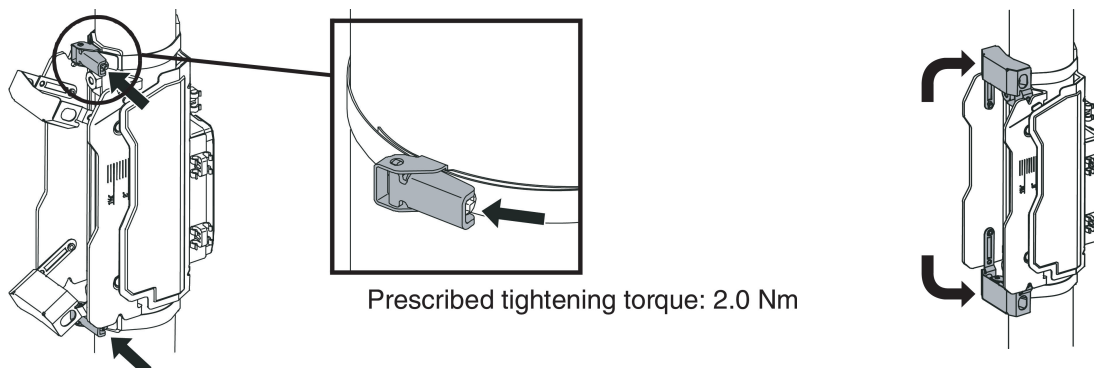
EVOFR200KIT, EVOFR300KIT, EVOFR500KIT,  
EVOFR800KIT

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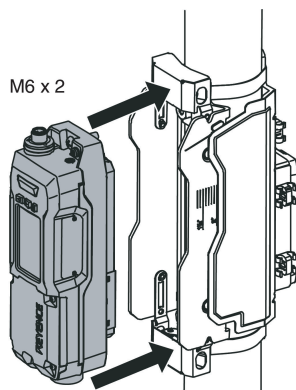
**Installation - Pipe Clamp-On Flow Sensor EVOFR200KIT & EVODFR300KIT (Cont'd)**

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- E.** Firmly tighten the metal belt screws and close the screw covers

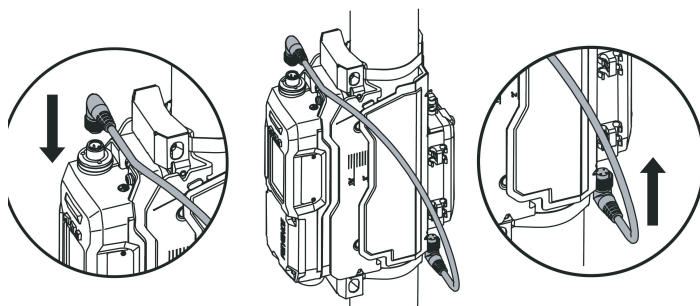


- F.** Fix the main unit in place on the upper bracket.



Prescribed tightening torque: 2.0 Nm

- G.** Connect the unit connection cable to the main unit and subunit. Fix the unit connection cable to the cable holders.



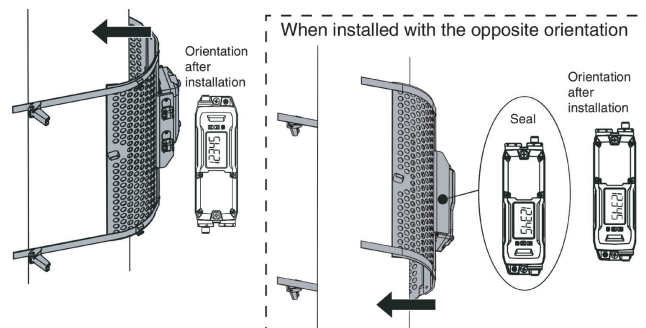
Recommended tightening torque: 0.8 Nm

EVOFR200KIT, EVOFR300KIT, EVOFR500KIT,  
EVOFR800KIT

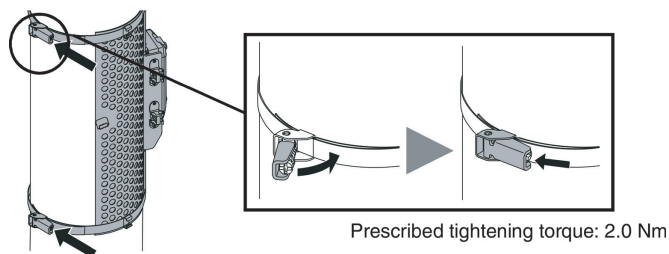
## Installation - Pipe Clamp-On Flow Sensor EVOFR500KIT & EVODFR800KIT

### 3. Mounting EVOFR500KIT and EVOFR800KIT

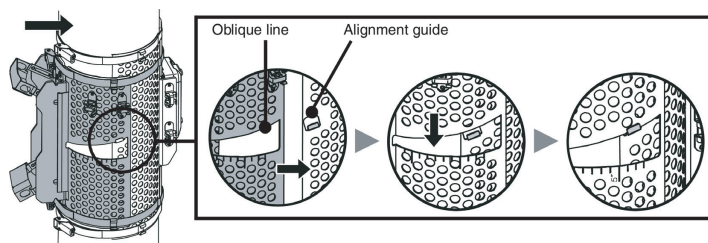
- A.** Determine the installation orientation of the lower bracket. The orientation of the main unit's display is determined by the installation orientation of the lower bracket.



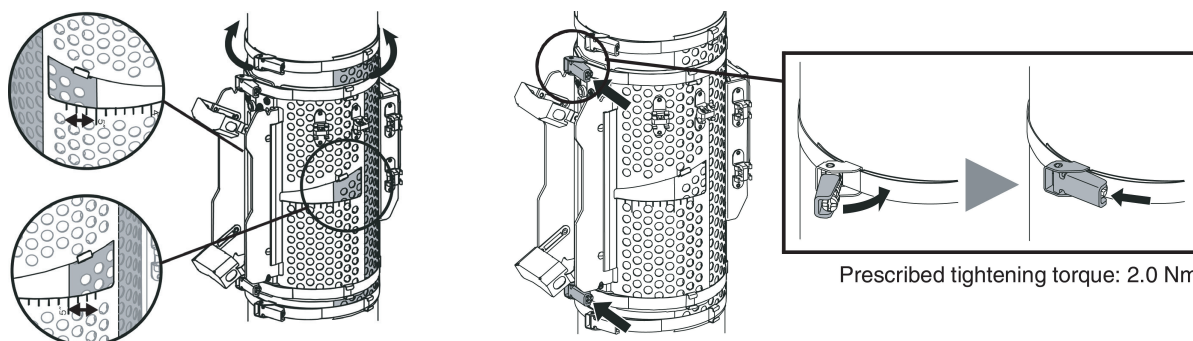
- B.** Use the metal belt to attach the lower bracket to the pipe.



- C.** Attach the upper bracket so that the left and right alignment guides are aligned with the upper bracket.



- D.** Adjust the position of the upper bracket so that the scale position is the same on the left and right. Firmly tighten the metal belt screws





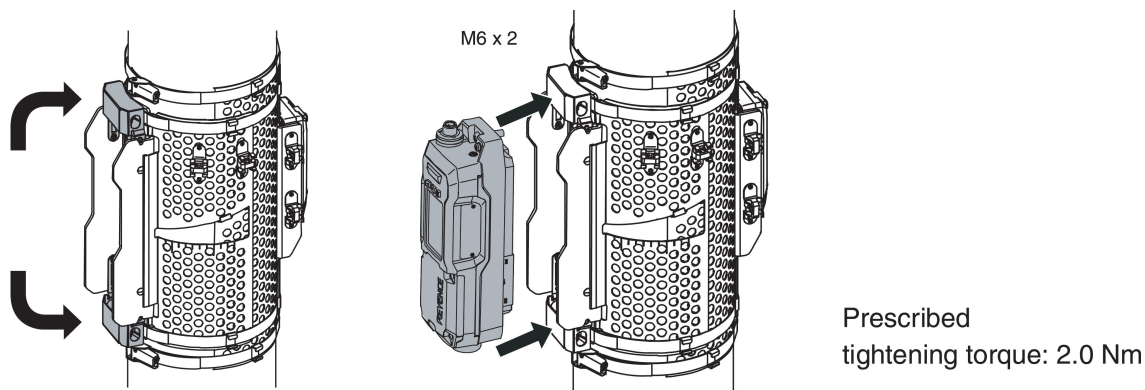
EVOFR200KIT, EVOFR300KIT, EVOFR500KIT,  
EVOFR800KIT

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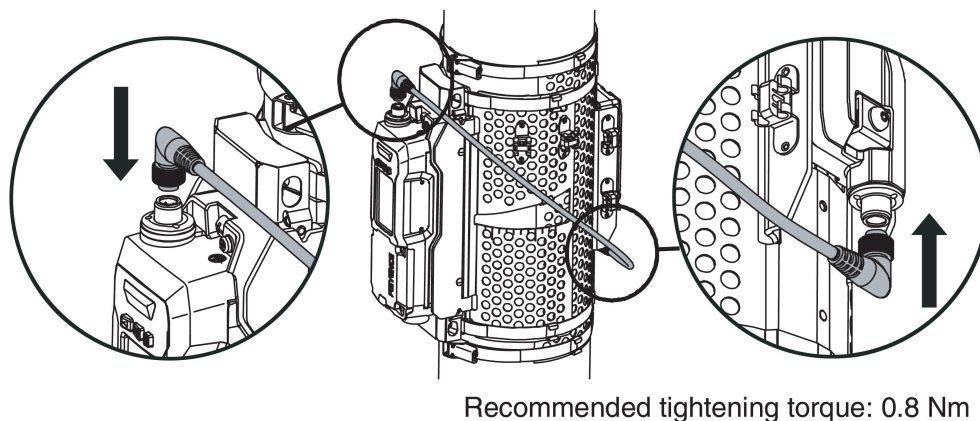
**Installation - Pipe Clamp-On Flow Sensor EVOFR500KIT & EVODFR800KIT (Cont'd)**

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- E.** Close the screw covers and fix the main unit in place on the upper bracket.



- F.** Connect the unit connection cable to the main unit and sub unit and fix the cable to the cable holders.



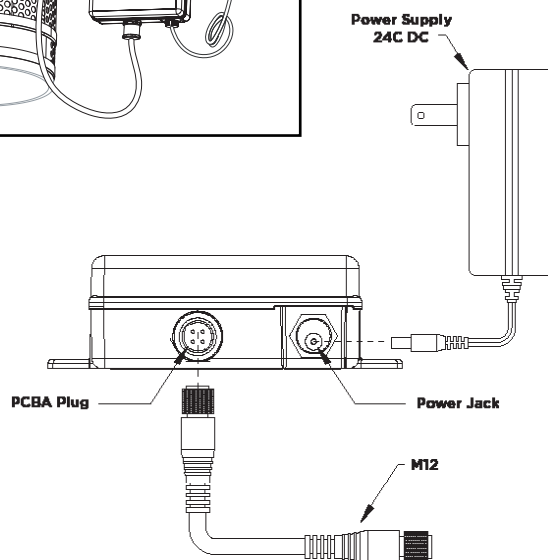
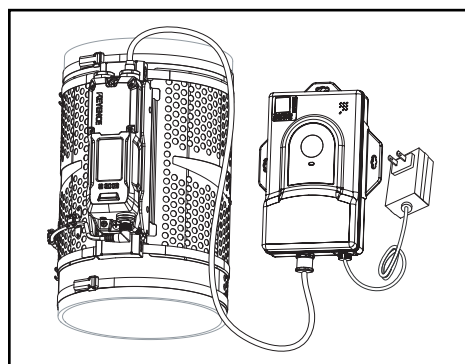


EVOFR200KIT, EVOFR300KIT, EVOFR500KIT,  
EVOFR800KIT

## Installation - Pipe Clamp-On Flow Sensor & Module (Cont'd II)

### 4. Mounting Sensor Module

- A.** These modules have a 4-foot power cord so find a location that is within reach where the box will be accessible and visible. The boxes are splash proof but not waterproof so find a dry place.
- B.** The modules can be mounted by either screwing it into a wall or but using cable ties to attach them to an insulated pipe, bracket, or hanger.
- C.** Plug the cable from the flow sensor into the sensor module. Once the connector is plugged in, spinning the locking ring until it locks into place.



### 4. Sensor Module App Setup

- A.** Scan Sensor Module QR Code
- B.** Complete App Steps

