



Badger Meter

## Twist Tight® In-line Connector Assembly

The waterproof and submersible Twist Tight in-line connector is used to connect an endpoint and encoder. Follow these instructions for use.

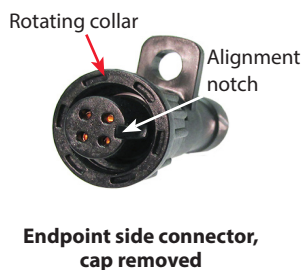
### REMOVING THE PROTECTIVE CAPS

#### ENDPOINT side connector

Holding the endpoint side connector as shown, twist the rotating collar *on the connector* counter clockwise (left) to loosen and remove the protective cap. When it is sufficiently loosened, the cap pulls off easily.



Endpoint side connector with protective cap



#### ENCODER side connector

Holding the encoder side connector as shown, twist the rotating collar *on the protective cap* counter clockwise (left) to loosen and remove the cap. When it is sufficiently loosened, the cap pulls off easily.



Encoder side connector with protective cap

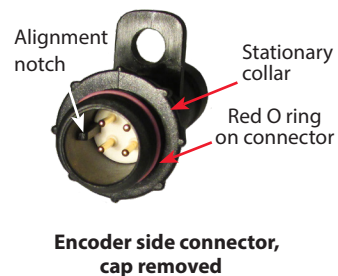


Figure 1: Twist the collar on the connector



Figure 2: Twist the collar on the cap

## JOINING THE CONNECTORS

### IMPORTANT

**BEFORE JOINING THE CONNECTOR ENDS, MAKE SURE ALL SURFACES, INCLUDING THE THREADS, ARE CLEAN, DRY, AND FREE OF ANY DEBRIS OR DIRT. THIS STEP IS IMPORTANT TO MAKE SURE THE CONNECTOR REMAINS WATER TIGHT AND SUBMERSIBLE.**

1. Align the keyed notches inside each connector and gently push the ends together until the endpoint side is fully seated into the encoder side.

**NOTE:** You will feel when the notches are aligned. When aligned, the connector ends go together easily.

2. Holding one connector end in each hand, twist the rotating collar on the endpoint side connector clockwise (right) until the ends are tightly connected.

### IMPORTANT

**Do not use tools to tighten. Hand tighten only.**

When tightly connected, the tabs at the top of the connectors are aligned, and **the red O ring on the encoder side is not visible.** See [Figure 3](#).



Figure 3: Connector ends joined

3. Place the connector assembly inside the security cover (PN: 68319-001). Make sure the connector tabs rest in the slots as shown in [Figure 4](#).

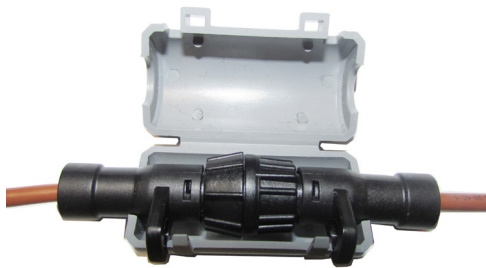


Figure 4: Connector correctly placed inside security cover

4. Snap the top and bottom together to close it.

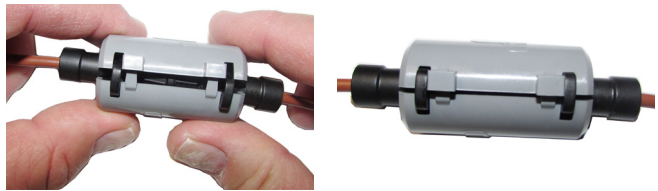


Figure 5: Security cover closed

Assembly is now complete.

## REMOVING THE SECURITY COVER

1. To remove the security cover, insert the blade of a flat head screwdriver into the security cover as shown in [Figure 6](#) and twist the blade right and left to pop open each side of the cover.



Figure 6: Removing the security cover

2. After opening, discard the security cover. The cover is intended for single use only.

## CABLE SHIELD OPTION

Twist Tight connector cables are available with an optional cable shield. The cable shield covers the endpoint/encoder cable to protect it from harsh environments.



Figure 7: Twist Tight with cable shield

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[www.badgermeter.com](http://www.badgermeter.com)

The Americas | Badger Meter | 4545 West Brown Deer Rd | PO Box 245036 | Milwaukee, WI 53224-9536 | 800-876-3837 | 414-355-0400  
México | Badger Meter de las Américas, S.A. de C.V. | Pedro Luis Ogazón N°32 | Esq. Angelina N°24 | Colonia Guadalupe Inn | CP 01050 | México, DF | México | +52-55-5662-0882  
Europe, Middle East and Africa | Badger Meter Europa GmbH | Nürtinger Str 76 | 72639 Neuffen | Germany | +49-7025-9208-0  
Europe, Middle East Branch Office | Badger Meter Europe | PO Box 341442 | Dubai Silicon Oasis, Head Quarter Building, Wing C, Office #C209 | Dubai / UAE | +971-4-371 2503  
Czech Republic | Badger Meter Czech Republic s.r.o. | Maříkova 2082/26 | 621 00 Brno, Czech Republic | +420-5-41420411  
Slovakia | Badger Meter Slovakia s.r.o. | Raciánska 109/B | 831 02 Bratislava, Slovakia | +421-2-44 63 83 01  
Asia Pacific | Badger Meter | 80 Marine Parade Rd | 21-06 Parkway Parade | Singapore 449269 | +65-63464836  
Switzerland | Badger Meter Swiss AG | Mittelholzerstrasse 8 | 3006 Bern | Switzerland | +41-31-932 01 11