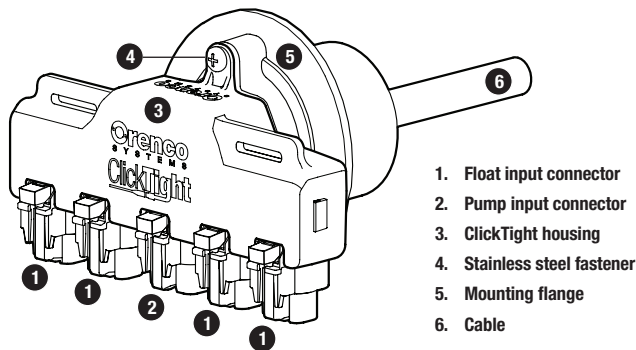# Orenco ClickTight™ Products

## Applications

Orenco's ClickTight products provide secure, moisture-resistant cable connections between a ClickTight, a ClickTight-compatible pump, up to four ClickTight-compatible float switches, and a control panel. They eliminate the need for splice boxes, field-spliced wires, wire nuts, and conduit seals.

ClickTight is UL-listed for the US and Canada. ClickTight connectors are IP67 rated.

## General

Orenco's ClickTight products greatly reduce the risk of electrical failures in wastewater systems due to moisture, faulty splices, improperly installed waterproof wire nuts, or corrosion. Two to four float switches and a pump can be quickly and securely connected to the ClickTight, without the use of tools. An integral cable runs from the ClickTight to the control panel.

Plug caps (product code CLK-CAP) are available for unused float switch plugs.



1. Float input connector
2. Pump input connector
3. ClickTight housing
4. Stainless steel fastener
5. Mounting flange
6. Cable

ClickTight unit

## ClickTight

Orenco's ClickTight greatly reduces the risk of electrical failures in onsite wastewater systems. It provides secure, water-resistant cable connections between a control panel, up to four ClickTight-compatible float switches, and a pump. It eliminates the need for splice boxes, field-spliced wires, wire nuts, and conduit seals.

ClickTight installs easily in an access riser, where it fits close to the riser wall to provide clearance for O&M activities. ClickTight is fully potted and sealed to prevent moisture and corrosive gas from reaching the control panel.

### Materials of Construction

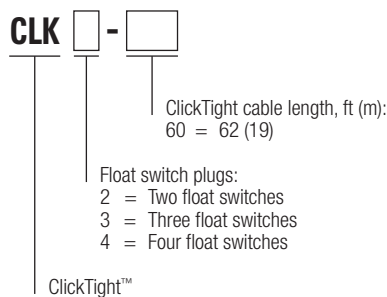| | |
|---|---|
| Cable | PVC/nylon, annealed copper |
| Connector & coupler housing | ABS |
| Fastener | Stainless steel |
| Housing | ABS |
| O-ring | Buna-N |
| Connectors | Glass-filled thermoplastic, silicone |
| Potting compound | Urethane |

### Specifications

| | |
|---|---|
| Pump cable | 14AWG; 3 conductor; UL TC-ER 600V |
| Float cable | 18AWG; 2-8 conductor; UL TC-ER 600V |
| Cable length, max., ft (m) | 62 (19) |
| Float switch connectors | Double-pole, IP 67 |
| Pump connector | Triple-pole, IP 67 |

## Standard Models

CLK2-60, CLK3-60, CLK4-60

## Product Code Diagram

CLK☐ - ☐

ClickTight cable length, ft (m):
60 = 62 (19)

Float switch plugs:
2 = Two float switches
3 = Three float switches
4 = Four float switches

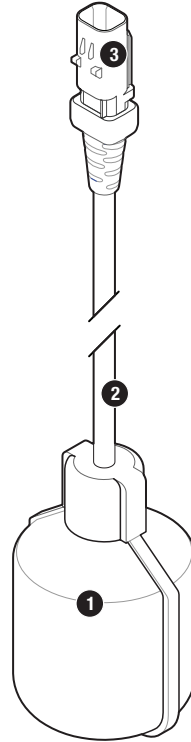ClickTight™

## ClickTight Float Switches

ClickTight B, C, N, and P float switches are mechanical, non-mercury switches that are cUL listed and CSA certified for use in water or sewage. ClickTight G float switches are mercury switches.

### Materials of Construction

| | |
|---|---|
| Float switch collar | ABS |
| Float switch cord | Flexible, 2-conductor (UL, CSA) SJOW; water-resistant CPE cord jacket with EPDM insulated conductors |
| Float switch housing | Impact resistant, noncorrodible polypropylene for use in liquids up to 140℉ (60℃) |
| Float switch connector | Glass-filled thermoplastic, silicone, IP 67 |

### Float Switch Specifications

| Float | State | Type |
|---|---|---|
| B | Normally open | Mechanical |
| C | Normally open | Mechanical |
| N | Normally closed | Mechanical |
| P | Normally open | Mechanical |
| G | Normally open | Mercury |

## Standard Models

B, C, N, P, G

## Product Code Diagram

**MF1**☐ **-** ☐ **- CLK**

ClickTight™-compatible

Cord length option:
Blank = 10 ft (3 m), standard
20 = 20 ft (6 m)

Float switch model:
B, C, N, P, G

Float switch, single
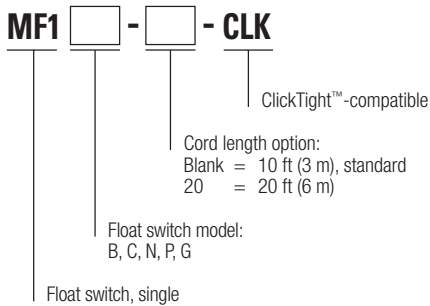


1. Float switch
2. Float switch cord
3. Float switch connector

ClickTight float switch (mechanical float switch shown)

1. **Splice connector**
2. **Pump adapter cord**
3. **Heat shrink**
4. **Pump connector**

ClickTight pump cord adapter

## ClickTight Pump Cord Adapters

Orenco's ClickTight pump cord adapters provide a means of retrofitting a ClickTight pump connector to an existing Orenco pump or a customer-sourced, single-phase, 120V/240V pump of up to 1hp (0.75kW) and a rating of 13 FLA.

### Materials of Construction

| | |
|---|---|
| Connector | Glass-filled thermoplastic, silicone |
| Heat shrink | Adhesive-filled polyolefin |
| Splice connector | Nylon, copper |

### Specifications

| | |
|---|---|
| Connector | Triple-pole, IP 67 |
| Cord | 3 conductor, 16AWG, SOOW, 600V |
| Heat shrink | 12-6AWG, 600V |
| Splice connector | 16-14AWG |

## Product Code Diagram

**CLK - PA**

Pump cord adapter

ClickTight™

## ClickTight-Compatible Effluent Pumps

Orenco's ClickTight-compatible effluent pumps* are the fast and simple way to add pumping capability to the ClickTight Controls Package. They're field serviceable with common tools and have a minimum 24-hour run-dry capability (liquid end) with no deterioration in pump life or performance in internal testing.

*\* For P-Series effluent pumps, see NTD-PU-P-1, P-Series Submersible Effluent Pumps: Single-Phase, 60Hz, 4in (100mm).*
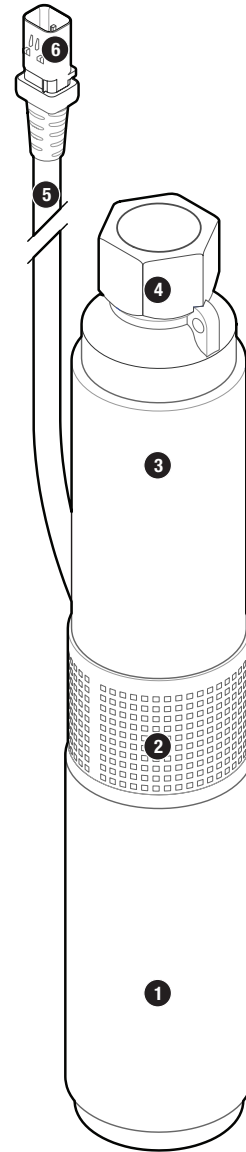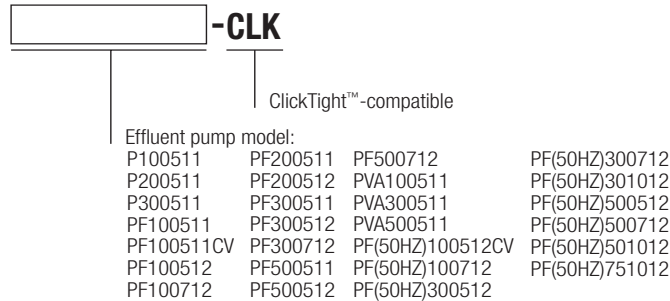
*For PF-Series pumps, see NTD-PU-PF-1, Orenco PF-Series 60Hz, 1-Phase Pumps and NTD-PU-PF-4, Orenco PF-Series Submersible Effluent Pumps: 50Hz, 100mm (4in).*

*For PVA-Series pumps, see NTD-PU-PVA-1, Orenco PVA-Series Pumps.*

### Materials of Construction

| | |
|---|---|
| Connector | Glass-filled thermoplastic, silicone, IP67 |
| Diffusers | Glass-filled PPO |
| Discharge | Glass-filled polypropylene |
| Discharge bearing | Engineered thermoplastic (PEEK) |
| Impellers | Acetal |
| Intake screens | Polypropylene |
| Lubricant | Deionized water, propylene glycol |
| Suction connection, drive shaft, coupling, shell | Stainless steel |

## Product Code Diagram

**☐☐☐☐☐☐-CLK**

ClickTight™-compatible

Effluent pump model:

| | | | |
|---|---|---|---|
| P100511 | PF200511 | PF500712 | PF(50HZ)300712 |
| P200511 | PF200512 | PVA100511 | PF(50HZ)301012 |
| P300511 | PF300511 | PVA300511 | PF(50HZ)500512 |
| PF100511 | PF300512 | PVA500511 | PF(50HZ)500712 |
| PF100511CV | PF300712 | PF(50HZ)100512CV | PF(50HZ)501012 |
| PF100512 | PF500511 | PF(50HZ)100712 | PF(50HZ)751012 |
| PF100712 | PF500512 | PF(50HZ)300512 | |

## ClickTight Retrofit Kit

Orenco's ClickTight retrofit kit provides the hardware needed for replacing an existing external Orenco splice box in a riser with a ClickTight unit.
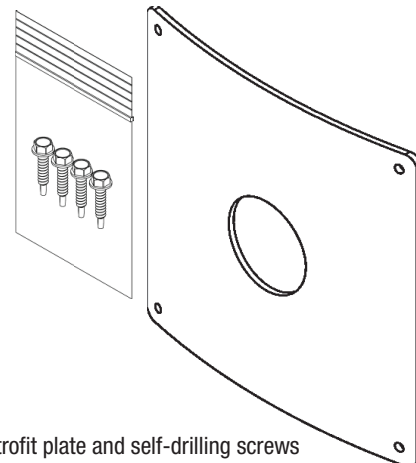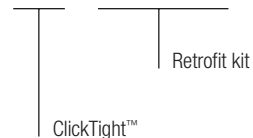
## Product Code Diagram

**CLK - RETROFIT**

Retrofit kit

ClickTight™



1. Pump motor end
2. Suction connection
3. Pump liquid end
4. Discharge connection
5. Cable
6. Pump connector

ClickTight-compatible effluent pump



ClickTight retrofit plate and self-drilling screws