



# FSI-T-SP3 Series Pulse Output PVC Flow Sensor

Creative Sensor Technology FSI series flow sensors feature proven impeller based technology designed for flow monitoring/flow control applications in irrigation, water conservation and related industries. The term sensor is used because this measurement device produces an output signal rather than a visual display.

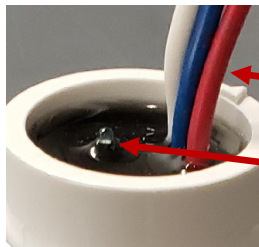
The PVC tee type sensor with socket connections is offered for service in all class and schedule rated PVC piping systems.

The SP3 version features a scaled output signal where 1 pulse = 1 gallon of flow. This signal is compatible with all Hunter Hydrowise irrigation controllers and other devices that require pulse type inputs. .



## Advantages over water meters

- ◆ Measures a much wider range of flows
- ◆ Operates without pressure loss
- ◆ Higher pressure rating - 240 psi
- ◆ Easy to install, no special fittings required
- ◆ Simple to clean or service

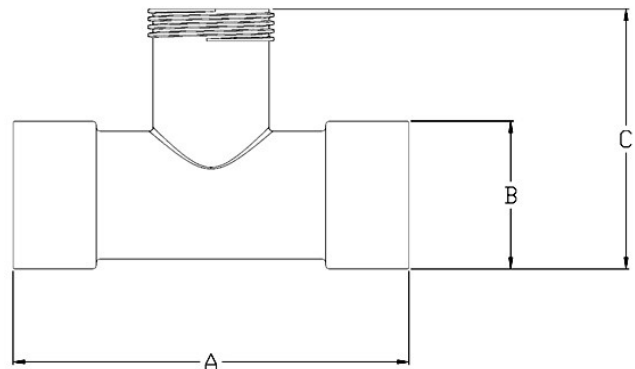


## Easy to Identify

- ◆ SP3 sensors have three wire leads with red, white and blue insulation
- ◆ SP3 sensors have a green LED located in the epoxy at the top of the sensor

## Flow Sensor Dimensions

SIZE	A LENGTH	B DIAMETER	C HEIGHT
1"	5.625" (143 mm)	1.710" (43 mm)	3.487" (88 mm)
1 1/2"	6.188" (157 mm)	2.310" (58 mm)	4.065" (103 mm)
2"	7.00" (178 mm)	2.875" (73 mm)	4.573" (116 mm)



Allow 3/4" clearance above the branch of the tee to remove flow sensor insert for service.



## Specifications

### Flow Range

- 0.25 to 15 FPS

### Pressure Rating

- 240 PSI Maximum working pressure

### Temperature Range

- 32°F to 140° F (0° to 60° C)

### Wetted Materials

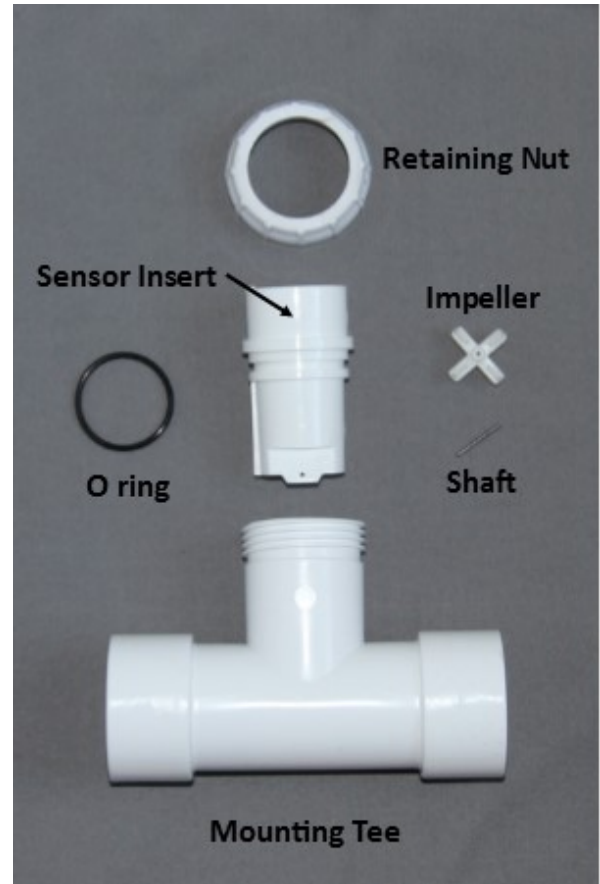
- Impeller – HDPE (High Density Polyethylene)
- Mounting Tee - Type 1 PVC
- O-ring — BUNA N
- Retaining Nut — Type 1 PVC
- Sensor Insert — Type 1 PVC
- Shaft – Tungsten Carbide

### Output Signal

- **Range:**  
0.0 Hz to 240 PPM (4 Hz)
- **Transducer excitation**  
24 VAC - 5 mA RMS (typ.)
- **Signal Output (open-drain FET)**  
Vmax. (switch open) = 45 VDC  
Imax. (switch closed) = 50 mA  
Vlow (switch closed) = 1.0 V @ 50mA (typ.)

### Electrical Cable

- SP3 electronics –SP3 version is equipped with 3 single conductor solid copper #18 AWG leads with direct burial insulation.
- Lead length 48 inches.
- Wiring may be extended up to 2,000 feet with direct burial, twisted triad shielded cable.



## Ordering Information



**Description**  
**Complete flow sensor**

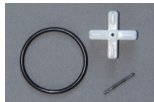
**Size**  
1 inch  
1 1/2 inch  
2 inch

**Part number**  
**FSI-T10-SP3**  
**FSI-T15-SP3**  
**FSI-T20-SP3**



**Flow sensor insert only**  
\* add tee size 1, 1 1/2 or 2

**FSI-EA0-SP3\***



**Impeller Repair Kit**

**FSI-T00-001**