DOOZEN
Specilize in Switch&Sensor

F1

Water Flow Sensor



The F1 Series Flow Sensors contain a free-running rotor which is driven by the fluid flow. Within the given measurement range, the rotational speed of the rotor is proportional to the fluid flow rate. Permanent magnets built into the rotor actuate an electronic switch in the top of the sensor generating a square-wave output signal proportional to flow rate.
The F1 Series can be measured from 2 to 30 L/Min.

The F1 Series flow-rate sensor integrates rugged tangential turbine technology with a precision digital-to-analog conversion circuit hermetically encapsulated within the body of the sensor. This flow sensor is ideal for measuring flow rates in cooling circuits, HVAC systems, and batching operations.

1 SPECIFICATIONS

Flow rate range:	2~30L/Min
Accuracy:	±10% of flowrate
Linearity:	± 2.5% of flowrate
Repeoducibility:	±2.5% of flowrate
Pressure Rating:	1.7Mpa/246.5PSI(25C)
Temperature range:	-4~85° C
Power:	5.0 to 12V @ 10mA (3-wire)
Signal Output:	5 V, open collector pulse
Wetted Material:	PA66 (30%GF)
Fluid Connector:	G1/4 Screw
Cable Length:	150mm (Customizable)
Dimensions:	60.0X36.0X21.1 mm
Weight:	25.5g

2 Calibration

- K-Factors must be considered as approximate values.
- The number of pulses per volumetric unit may vary depending on the medium and the installation.
- For optimum performance, the system must be calibrated after installation.

Sensor model	Flow Connector	K Factors
F11	G1/4	f=6.0Q
F12	G1/4+Quick	f=9.0Q
F13	Quick connector	f=9.0Q

3 APPLICATIONS

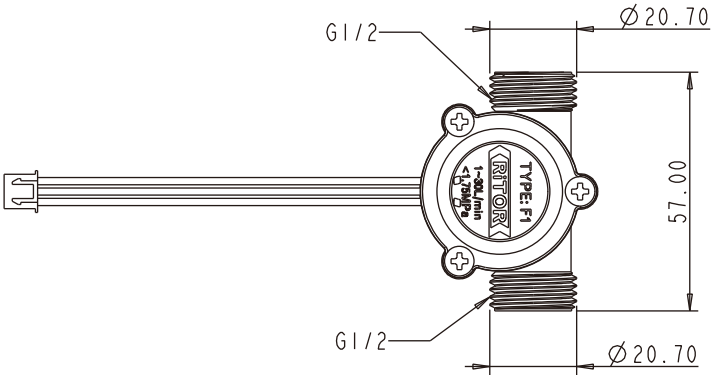
Typical applications include Gas boiler Water heater , monitoring of critical flows in other home appliance, and Other successful applications include monitoring liquid ingredient additions, such as food dyes, in the food processing industry and medical flow applications.

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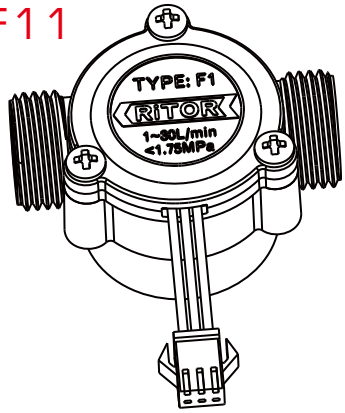
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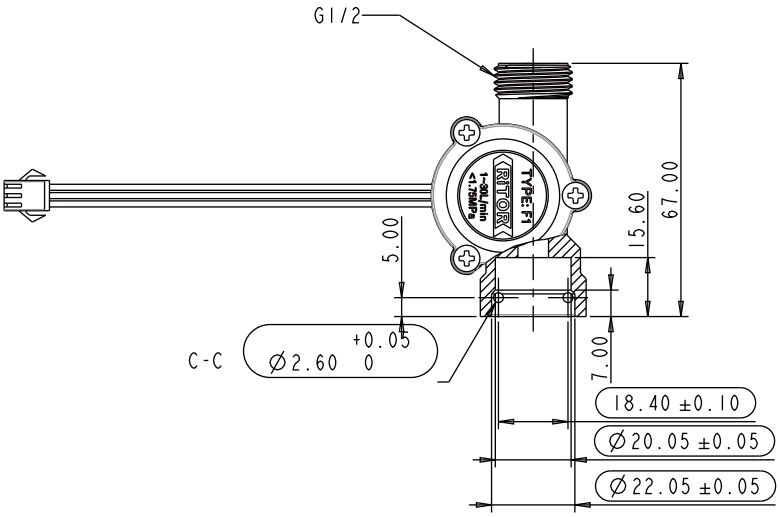
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4 DIMENSIONS & TYPE SELECTION

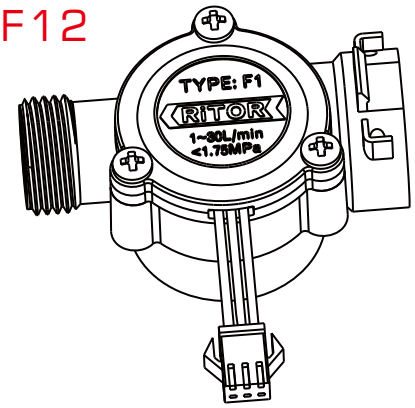


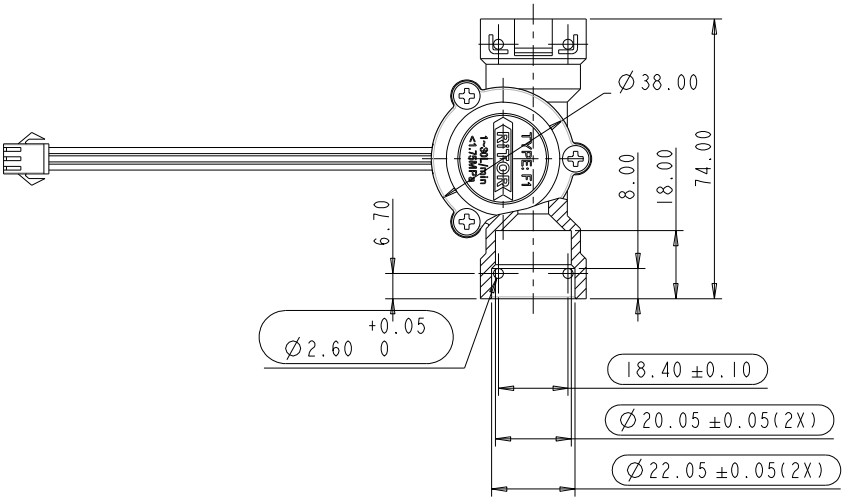
F11



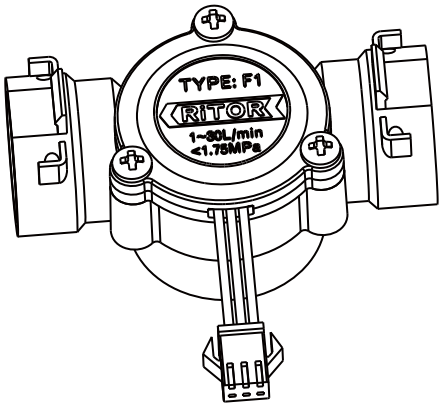


F12





F13



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