

**AVAILABLE IN 22.5, 45, 60, AND 90 DEGREES
FLOWS FROM 5 TO 187 LITERS PER SECOND
SIMPLE PRINCIPLE**

Triangular weirs are sharp crested thin plates with V - shape opening (or notch). These plates are designed to measure seepage water flows in channels or tanks.

Description

Triangular weirs are sharp crested thin plates with V-shaped opening (or notch). These plates are installed at the exit of a channel, tank, or basin in order to measure the real-time flow of water. For a given weir profile size and shape, the flow of water is related to the head of water at the weir.

Measurement can be carried out manually directly on the plate or on a staff gauge fixed to the basin wall, or remotely via a water level sensor installed in the basin at a minimum distance of the V-notch. Acoustic or vibrating wire NIVOLIC WL sensors can be used - see separate brochure for more information.

A typical application for these plates consists in measuring the flow of water on the downstream side of a dam. The seepage water flow will be diverted to an open channel in a weir-station. Seepage measurement is one of the most important indicators of the overall performance of earth / rock - fill and concrete dams.

Key Features

- Available in 22.5, 45, 60, and 90 degrees
- Flows from 5 to 187 liters per second
- Simple principle
- Stainless Steel construction
- Low maintenance
- Can be easily automated

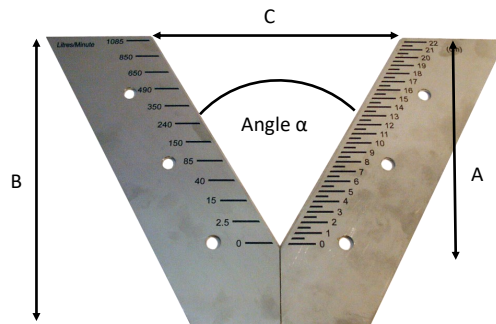
Applications

- Seepage measurement in concrete and earth dam
- Open channels flow rate
- Drainage systems in tunnels and excavations

Specifications

Code	Flow (l/sec)	A (mm)	B (mm)	C (mm)	Angle α
FR-1106050100	12	154	226	596	90°
FR-1106050100A	68	305	376	897	90°
FR-1106050100B	187	455	528	1199	90°
FR-1106050200	6.9	155	230	414	60°
FR-1106050200A	39	305	580	587	60°
FR-1106050200B	108	455	530	760	60°
FR-1106050300	5	155	230	348	45°
FR-1106050300A	28	305	380	473	45°
FR-1106050300B	78	455	530	597	45°
FR-1106050400	2.4	155	230	269	22.5°
FR-1106050400A	14	305	380	328	22.5°
FR-1106050400B	37	455	530	388	22.5°

Material	Stainless Steel 304
Thickness	6.35 mm



Ordering Information

Please specify:

- Model (capacity)
- Optional water level sensor with readout equipment
- Customized plate fitting basin dimensions and onto which the v-notch plate will be screwed