

**AVAILABLE IN 22.5, 45, 60, AND 90°  
FLOWS FROM 5 TO 187 L/S  
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 indicator 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 L/S
- Simple principle
- Stainless Steel construction
- Low maintenance
- Can be easily automated

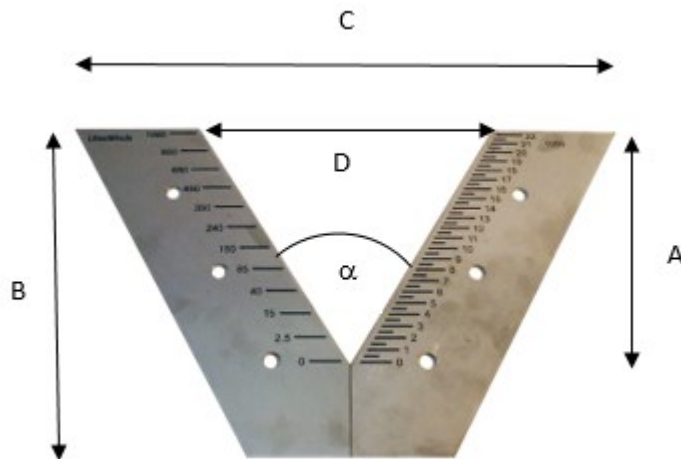
### Applications

- See page 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)	D (mm)	Angle $\alpha$
FR-1106050100	12	154	226	596	309	90°
FR-1106050100A	68	305	376	897	610	90°
FR-1106050100B	187	455	528	1199	920	90°
FR-1106050200	6.9	155	230	414	180	60°
FR-1106050200A	39	305	580	587	352	60°
FR-1106050200B	108	455	530	760	525	60°
FR-1106050300	5	155	230	348	129	45°
FR-1106050300A	28	305	380	473	253	45°
FR-1106050300B	78	455	530	597	377	45°
FR-1106050400	2.4	155	230	269	62	22.5°
FR-1106050400A	14	305	380	328	121	22.5°
FR-1106050400B	37	455	530	388	181	22.5°

Material	Stainless Steel 304
Thickness	3.2 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

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