

Introduction

NaanDanJain develops, manufactures and markets the largest selection of comprehensive irrigation technologies in the world, designed for economical and efficient water management.

With over seventy years of experience, the company operates in over 90 countries in all continents, meeting all the requirements of efficient modern irrigation. NaanDanJain's wide range of dripline technologies provides efficient, flexible and cost-effective solutions for a wide range of crops in diverse conditions, tailored to varied customer needs.

NaanDanJain's dripline range provides optimum solutions for subsurface drip irrigation, organic agriculture, greenhouse technologies, and ecological applications.

NaanDanJain's 800-hectare farm includes open fields, citrus orchards and avocado plantations that serve as a large scale testing site for the company's intensive R&D.

NaanDanJain's state-of-the-art dripline laboratory operates according to the international NaanDanJain is a ISO 9001:2008 and ISO 14001:2004 certified company.

The Cascade Labyrinth

The Cascade Labyrinth incorporated in all our drippers signifies a breakthrough in low-volume labyrinth systems. The unique structure of the dripper facilitates intensified self-cleaning, preventing clogging and vastly improving durability.

ADVANTAGES

- Reliable use of low-volume drippers
- Unique self-cleaning operation
- Wider water passages
- Very high resistance to clogging
- Long-term flow accuracy and uniformity
- Longer laterals
- Lower costs per area
- Extended product life

DOUBLE FLOW SYSTEM

The Cascade labyrinth teeth create a double-flow regime that combines rapid central flow with cyclone turbulence, facilitating constant cleaning and flushing. This prevents clogging and improves dripper durability.

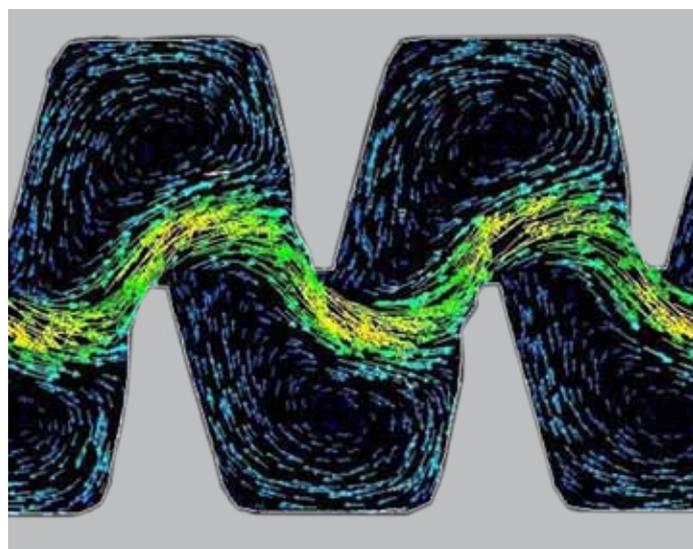
EFFICIENT SELF-CLEANING

During the self-cleaning process, dirt and sand particles that penetrate the filtration system are washed away, preventing sedimentation and clogging.

HYDRAULIC CHARACTERISTIC OF THE LABYRINTH

The regulating ratio of the Cascade labyrinth is 1:2.2 - while the pressure is doubled, the flow rate changes only by 45%.

VELOCITY VECTORS IN THE CASCADE LABYRINTH



- Fast central flow
- Cyclone turbulence, self cleaning flow