



NDJ CLICK TIF

The No.1 Dripper for UK Growers

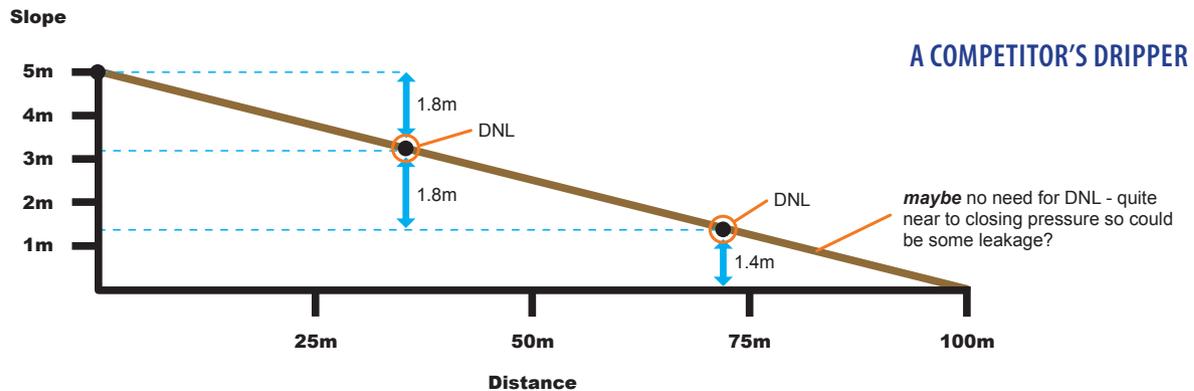
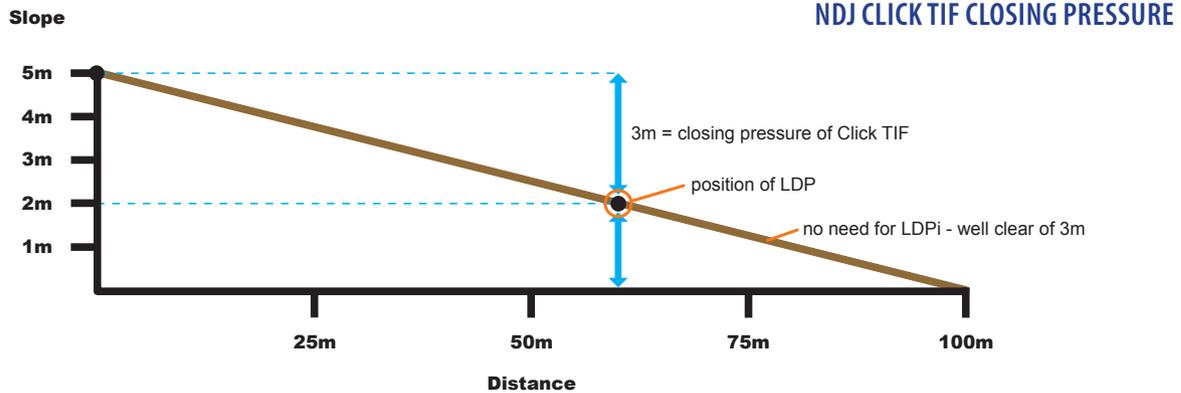
UP TO 40% BETTER IRRIGATION PERFORMANCE THAN OTHER LEADING DRIPPERS

| | Rivulis SuperTif ND (CNL) | Rivulis SuperTif NDH (CNL) | NDJ ClickTif HD CNL | Netafim PCJ - HCNL |
|---------------------------------|---|---|--|---|
| |  |  |  |  |
| Flow Rates (lph) | 1.1, 2.2, 3.85, 7.8 | 1.6, 3.1, 8.0, 12.0 | 1.3, 2.0, 3.0, 4.0, 8.0, 12.0 | 0.5, 1.2, 2.0, 3.0, 4.0 |
| Operating Pressure (bar) | 0.7 to 3.5 | 1.2 to 3.5 | 0.8 to 4.0 | 1.5 to 4.0 |
| Opening Pressure (bar) | 0.7 | 1.0 | 0.8 | 1.5 |
| Closing Pressure (bar) | 0.15 for CNL | 0.35 for CNL | 0.3 for CNL | 0.18 for CNL |
| Operating Range (bar) | 2.8 | 2.3 | 3.2 | 2.5 |
| Operating Range (%) | 121% | 100% | 139% | 108% |

Of all the high closing pressure drippers, only the NDJ has a good range of popular outputs, with its lower volume 1.3lph (generally for 5 drippers per bag) and the evergreen 2lph (for 4 drippers per bag). Of course, in other growing applications, such as pots or containers, having the choice gives greater options depending upon the system design. The only other 'high' option from any competitor comes with only one usable output.

The Operating Pressure (OP) range of a dripper is also critical. If a grower has long lines, the field is a long way away, or the valve sections vary in size, a wide OP range allows for system designs that push the dripper's capabilities. NDJ's Click Tif has an almost 40% better OP range than other popular drippers used in the UK. This means the NDJ Click Tif is less likely to be near its operational parameters, so over time its performance is least likely to be effected.

A 3M CLOSING PRESSURE HANDLES SLOPES BETTER, WITH LESS NEED FOR LDP'S TO HOLD WATER IN THE LATERAL

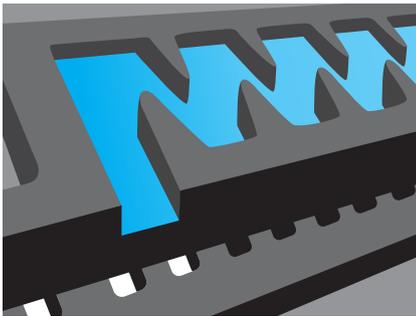


With its 3m closing pressure, the NDJ Click Tif dripper handles slopes much better than its competitors, with less need for LDPs to hold the water. It can also deal with the undulating land and cross-slopes that are very common on fruit farms. *How does the Click Tif manage this?* The **'Sharp Edge'** CNL seat. This seat, when combined with the diaphragm characteristics, gives the Click Tif market-leading operational properties, which are ideal for UK farms.

The lower diagram shows the closing effect on a competitor's dripper. Effectively the dripper handles slopes less well than the NDJ Click Tif. It is more susceptible to opening and draining the laterals on sloping areas, even with Netafim TNLs fitted. The additional problem of using other drippers on large slopes is that the pressure loss through the Netafim TNL is quite high. This means the grower is generally limited to two or three in a line, limiting the run length.

SUPERIOR CONSTRUCTION IN THE AREAS THAT AFFECT DRIPPER OUTPUT THE MOST

LABYRINTH



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
- Extended product life and durability

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

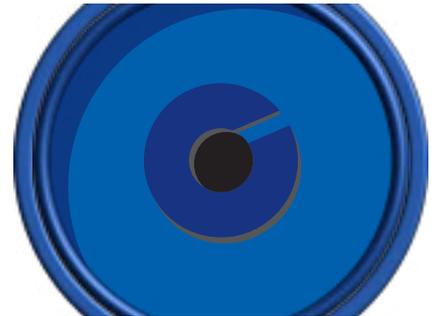
The dirt and sand particles that can penetrate the filtration system are washed away, preventing sedimentation and clogging.

DIAPHRAGM



NDJ's super-sized, high-quality injection moulded diaphragm is the engine of their Click Tif dripper. It allows for a class-leading operating range, as well as impressive opening and closing pressures. The Click Tif's diaphragm is robust and isn't affected by chemicals or time. It keeps on working irrigation cycle after irrigation cycle, year after year, whilst maintaining all of its operating parameters.

REGULATING BASIN



The patented design of the Click Tif's regulating basin offers the maximum size available to absolutely minimise any chance of blockages.

"Any dripper's performance is determined by the combination of its labyrinth, diaphragm and regulating basin. In the NDJ Click Tif we feel we have the balance just right for complete overall long-term performance."

PROVEN TO BE HIGHLY EFFECTIVE FOR USE IN UK GROWING CONDITIONS



Frost Resistance – the NDJ Click Tif is Freezer Proven!

Designed to be used outdoors, where it is open to the elements and to cope with the winter in eastern Europe, the NDJ Click Tif is the ultimate dripper for toughness in prolonged operation in harsh conditions.

Drippers from other manufacturers, can offer little resistance to natural weathering, cold climates, the many on/off's during the day and the occasional over pressurisation and they start to split and leak. Once they start you cannot stop them. Every year, year after year, another significant percentage will split, costing you time, effort, crop and therefore money replacing throughout the year.

Dripper & System Checking

Penny UK are so confident in the performance of the NDJ Click Tif that, in association with NDJ Israel, we operate a programme of dripper and system checking. We can:

- Explore uniformities within an irrigation system
- Check whether the drippers are accurate
- Check whether age has affected the performance of the drippers
- Check if dirt and chemicals have finally taken their toll.

Via our testing software, we can also see if the CNL operation is still in place and check to see if it is functioning the same as when the drippers were first installed. CNL operation is absolutely vital to maximise your growth/yield potential. If it is not working properly, then you are not maximising your yield. It's that simple. And remember, it only takes one dripper to carry on dripping after the valve is shut to ruin the CNL effect.

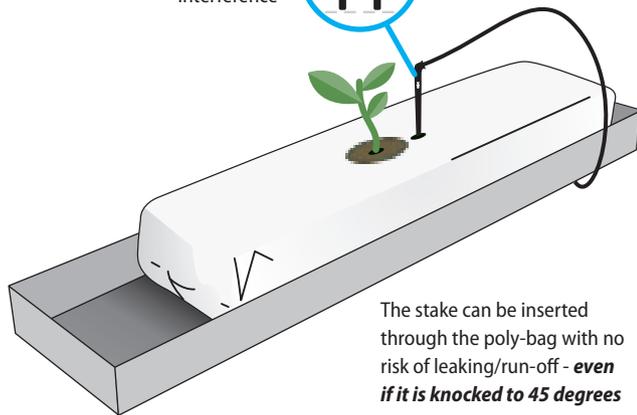
The NDJ Click Tif - The dripper that UK growers are now asking for by name!



A DEEP 'H' SECTION IN NDJ'S DROP GUIDE STAKE KEEPS WATER AWAY FROM INTERFERENCE

NDJ DROP GUIDE STAKE

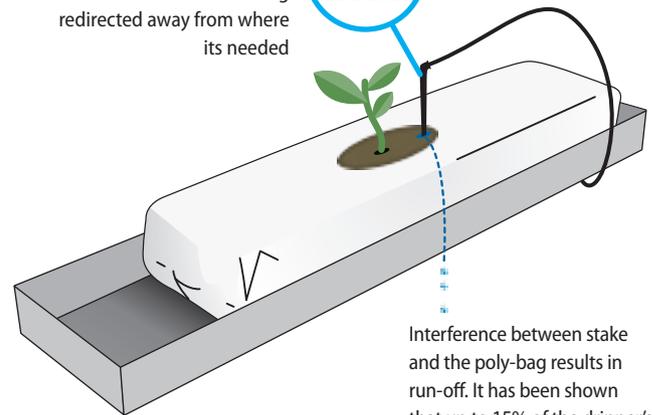
Water flows inside deep 'H' section of stake - away from interference



The stake can be inserted through the poly-bag with no risk of leaking/run-off - **even if it is knocked to 45 degrees**

COMPETITOR'S STAKE

Water stream running proud of the stake results in turbulence and water being redirected away from where its needed



Interference between stake and the poly-bag results in run-off. It has been shown that up to 15% of the dripper's water can be wasted like this throughout the season.

The NDJ Drop Guide stake, with its deep 'H' section design keeps the running water out of the way of any protrusions or outside interference. It does this so successfully, that in coir bags, you don't even have to have irrigation holes put in. You can insert the drippers straight through the polythene and 100% of the water still goes into the bag.

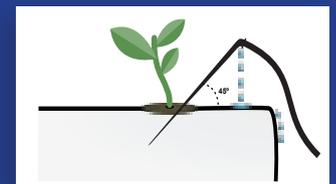
Unlike stakes from other manufacturers, the Drop Guide stake also has inverted and ascending in size chevrons. These help push the water outwards on its journey from the top of the stake to the bottom, encouraging the water to move out quickly into the growing media. The final chevron fills the whole of the dripping channel, so all the water has to exit the stake at this point. This causes a pulse of pressure so the water runs to the bottom of the bag or pot.

Another key feature of the Drop Guide stake is its Inspection Window. The flow of water is clearly visible as it passes over the water splitter on the stake. The inspection window is very useful for a quick visual check that the dripper is dripping. Other popular stakes do not have this facility.

An added feature of the deep 'H' section, is what we call *'The Angle of Dangle!'* As the season wears on and crops are picked, trimmed and generally looked after, staff cannot help knocking the originally well positioned stake in the bag or the pot. Long after other stakes have started to miss the bag completely, placing water and feed on the floor, the Drop Guide stake can still perform, even when tilted at 45 degrees. This means, that from the first irrigation cycle to harvesting your crop, the Drop Guide stake will always put all the water and nutrients into the growing media for the plant.



NDJ Drop Guide Stake



Competitors Stake

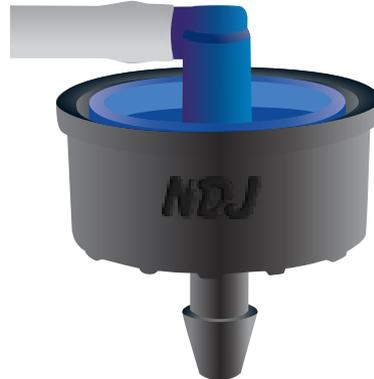
A WIDE RANGE OF APPLICATIONS & ACCESSORIES PROVIDE GREATER OPTIONS FOR GROWERS

REMOVABLE LEADS



NDJ offer a removable lead and stake system designed for disinfecting the dripper sets, which can be achieved whilst leaving the dripper in the lateral pipe. This is a very popular option, especially in glasshouse and propagation systems and is used to minimise the risk of disease.

ANGLED OPTIONS



NDJ are always developing and improving the functionality of their drippers, and the new angled outlet Click Tif is now available in all fitting types and outputs. Depending on the growing system, an angled outlet can give the grower better options when the drippers are installed. For example, an angled dripper can help minimise the amount of lead, which can be knocked or damaged during pruning, between the lateral and the plant.

LDP



Applications - Installed at the beginning of drip laterals:

- Prevents draining of sub-main and main pipes after system shut-off
- Improves irrigation uniformity - synchronises lateral opening/closure along the sub-main
- Reduces system filling time
- Can reinforce CNL driplines and button drippers where slopes exceed the closing pressure of CNL installed along the lateral
- On steep slopes it improves water distribution during lateral draining.

Structure & Features:

- Simple, plastic 4-part structure
- Available with a large variety of end connections
- Outlet is 1/2" female-threaded NPT
- Low head loss
- Recommended working pressure 1.4-4 bar.

Operating Pressure:

- Opening pressure - 14m
- Closing pressure - 6.



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PENNY UK

TECHNICAL WHOLESALE IRRIGATION

T: 01565 777029

E: info@pennyukltd.com

www.pennyukltd.com

