

DNL: Dripline Non Leakage Valve



The Netafim DNL acts like a spring-loaded check valve that closes when the pressure in the system is relieved. The DNL prevents water from running back into lines and draining of lines that are installed with a slope or at different height, thus preventing differences in delivery.

TECHNICAL DATA

Closing pressure	: see table
Working pressure	: see table
Maximum capacity	: 1400 l/h
Connection	: ½" male thread
Material	: silicone (diaphragm)

APPLICATION

In lines installed with a slope

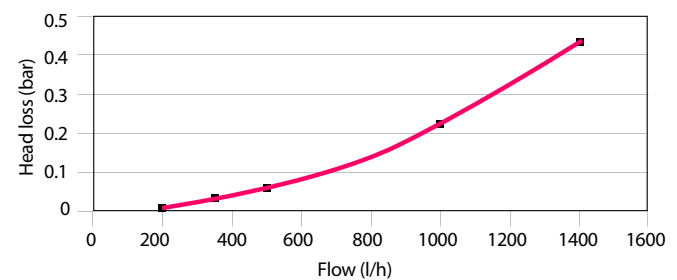
CHARACTERISTICS

- ✓ Faster starting and improved water distribution
- ✓ Prevents water flowing back into lower parts

Closing and working pressure

Type	Closing pressure (bar)	Min. working pressure (bar)	Max. working pressure (bar)
red	0,2	0,8	4,0
black	0,4	1,2	4,0
brown	0,6	1,6	4,0

Head loss



INSTALLATION & MAINTENANCE

- ✓ In crop sections with a slope where the slope is larger than the closing pressure of the drippers, the DNLs are installed in the drip irrigation line so that the remaining slope is not more than the closing pressure of the drippers (to prevent differences in delivery, only in pressure-compensated and closing drippers).
- ✓ If both the distribution line and the drip irrigation line has a slope, position the DNL both behind the distribution line and in the drip irrigation line. Not more than 2 DNLs should be installed per drip irrigation line.
- ✓ When using DNLs, the minimum working pressure should be increased by the resistance of the DNLs. Ensure that the minimum working pressure is always above the opening pressure of the DNL.
- ✓ If the DNL is used in non-pressure-compensated drippers behind the distribution line, this improves the uniformity of the system. Allowance should be made for a slightly lower delivery behind the DNL (the resistance over the DNL reduces the working pressure behind the DNL).
- ✓ For bed cultivation (including mushrooms), the DNL can be turned around to increase the resistance (0.1 bar).
- ✓ The DNLs can be installed using Tavlit PP socket seals, Tavlit Nutlock couplers or Supreme compression joints.