

# Streamline™ X

Integral non-pressure-compensated high clogging-resistance dripper, for single season applications.

→ 12060 - 12080 - 16050 - 16060 - 16070 - 16080  
16100 - 22050 - 22060 - 22070 - 22080 - 22100



Tough



High clogging  
resistance



Wide filtration  
area

## / Benefits & Features

### → Toughness

Streamline™ X is the toughest thin wall dripline ever made, incorporating a unique ribbed surface that acts as a barrier between the ground and the dripline, making deployment and retrieval smoother than ever before.

### → High clogging resistance

Even with challenging water quality, with self-cleaning labyrinth that flushes debris throughout operation.

### → Wide filtration area

Ensures optimal performance even under harsh water conditions, preventing the entrance of sediment into the labyrinths.

### → Wide water passages

TurboNet™ labyrinth ensures wide water passages, large deep and wide cross-section that improves clogging resistance.

### → ReGen™ (optional\*)



The industry's first dripline with ReGen™, the highest quality recycled dripline ever made, successfully addressing the supply chain sustainability needs of today's growers.







# / Max. lateral length

Flow Variation (FV) expresses the flow variation between the dripper "sensing" the highest pressure and the one "sensing" the lowest pressure in an irrigation block (zone).

These drippers will not always be the first and last drippers on the dripline.

$$FV \% = (Q_{\max} - Q_{\min}) / Q_{\max} * 100$$

\*International standards define 10% flow variation to be considered as uniform irrigation.

In order to calculate the maximum run lengths that can be planned for specific dripline (considering all the hydraulic factors influencing the flow within the same dripline), we use a calculation software that was developed by Netafim™ based on Darcy-Waisbach formulas + years of design experience and cooperation with academic institutes.

All the tables presented in this document are for initial reference only; the exact run length of the driplines is obtained from design software that considers various hydraulic factors in the entire system.

There might be small variance between the different software's in the market due to the calculation method and assumptions each software is using. For an initial estimate of the dripline length, the data that is presented in this document (within the tables shown) is sufficiently accurate.

Non-pressure-compensated drippers of Netafim™ will provide different flow according to the real working pressure, therefore, the influencing factors will be: the pressure that each dripper in the dripline is exposed to, and the allowed flow variation the dripline is designed to, which in most cases is defined as 10% difference in flow, according to the international standards, and / or any other limitation that the customer / planner will prefer to design while considering the crop needs and area topography.

The following tables are only displayed at one inlet pressure for each dripline, since in non-pressure-compensated drippers the flow varies according to the pressure. There might be differences in run lengths with different inlet pressures; however for an initial estimate of the dripline length, the data that is presented in this document (within the tables shown) is sufficiently accurate.

## Max. lateral length (meters) at different slopes - 10% flow variation

Streamline™ X • 12060 • ID 11.8 mm • Kd 0.15 • Flow rate 0.35 l/h • Inlet pressure 1.2 Bar

|                     | Distance between drippers (meter) |      |      |      |      |      |      |      |
|---------------------|-----------------------------------|------|------|------|------|------|------|------|
|                     | Slope                             | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 |
| <b>Uphill</b>       | 2%                                | 80   | 93   | 100  | 105  | 108  | 110  | 112  |
|                     | 1%                                | 99   | 123  | 141  | 155  | 166  | 175  | 183  |
| <b>Flat terrain</b> | 0                                 | 122  | 162  | 197  | 229  | 259  | 287  | 313  |
| <b>Downhill</b>     | -1%                               | 140  | 192  | 241  | 288  | 331  | 374  | 416  |
|                     | -2%                               | 154  | 216  | 273  | 181  | 205  | 161  | 152  |

## Max. lateral length (meters) at different slopes - 10% flow variation

Streamline™ X • 12060 • ID 11.8 mm • Kd 0.15 • Flow rate 0.75 l/h • Inlet pressure 1.2 Bar

|                     | Distance between drippers (meter) |      |      |      |      |      |      |      |
|---------------------|-----------------------------------|------|------|------|------|------|------|------|
|                     | Slope                             | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 |
| <b>Uphill</b>       | 2%                                | 57   | 69   | 78   | 85   | 90   | 95   | 98   |
|                     | 1%                                | 64   | 82   | 96   | 108  | 118  | 127  | 135  |
| <b>Flat terrain</b> | 0                                 | 72   | 96   | 116  | 136  | 153  | 169  | 186  |
| <b>Downhill</b>     | -1%                               | 79   | 109  | 136  | 162  | 187  | 211  | 234  |
|                     | -2%                               | 86   | 122  | 155  | 189  | 221  | 253  | 286  |





















### Max. lateral length (meters) at different slopes - 10% flow variation

Streamline™ X • 22100 • ID 22.2 mm • KD 0.01 • Flow Rate 2.10 l/h • Inlet pressure 1.0 Bar

|              | Distance between drippers (meter) |      |      |      |      |      |      |      |
|--------------|-----------------------------------|------|------|------|------|------|------|------|
|              | Slope                             | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 |
| Uphill       | 2%                                | 74   | 83   | 88   | 91   | 93   | 95   | 95   |
|              | 1%                                | 96   | 115  | 130  | 141  | 149  | 156  | 162  |
| Flat terrain | 0                                 | 122  | 159  | 192  | 222  | 249  | 275  | 300  |
| Downhill     | -1%                               | 144  | 194  | 241  | 286  | 328  | 369  | 409  |
|              | -2%                               | 160  | 220  | 152  | 151  | 130  | 124  | 121  |

### Max. lateral length (meters) at different slopes - 10% flow variation

Streamline™ X • 22100 • ID 22.2 mm • KD 0.01 • Flow Rate 2.80 l/h • Inlet pressure 1.0 Bar

|              | Distance between drippers (meter) |      |      |      |      |      |      |      |
|--------------|-----------------------------------|------|------|------|------|------|------|------|
|              | Slope                             | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 |
| Uphill       | 2%                                | 67   | 77   | 83   | 87   | 89   | 92   | 93   |
|              | 1%                                | 83   | 101  | 116  | 127  | 136  | 143  | 150  |
| Flat terrain | 0                                 | 102  | 133  | 160  | 185  | 208  | 229  | 250  |
| Downhill     | -1%                               | 117  | 158  | 195  | 230  | 264  | 297  | 328  |
|              | -2%                               | 129  | 176  | 220  | 262  | 164  | 142  | 130  |