



# TECHLINE® CV

Maximum Uniformity in  
Subsurface and On-Surface  
Including Slopes

## 17mm DRIPLINE

### APPLICATIONS

- Subsurface or on-surface installations
- Turf, shrubs, trees and flowers
- Sports turf, tennis courts, golf courses
- Slopes
- Longer lateral runs
- Curved, angular or narrow planting areas
- High traffic/high liability areas
- Areas subject to vandalism
- High wind areas
- At-grade windows
- Green walls, green roofs
- Raised planters

### SPECIFICATIONS

- Broadest choice of emitter flow rates: 0.26, 0.4, 0.6 and 0.9 GPH
- Emitter spacings: 12", 18" and 24" (24" spacing available for 0.6 and 0.9 GPH only)
- Pressure compensation range: 14.5 to 58 psi
- Bending radius: 7"
- Maximum recommended system pressure: 58 psi
- Minimum pressure required: 14.5 psi
- Tubing diameter: 0.66" OD; 0.56" ID; 0.050" wall
- Coil lengths: 100', 250', 500', 1,000'
- Recommended minimum filtration: 120 mesh
- Diaphragm made of silicon
- ISO 9261 Standard Compliance

### FEATURES & BENEFITS

#### 2 psi CHECK VALVE IN EACH EMITTER

All emitters turn on and off at the same time, maximizing balance of application. Holds back up to 4.6' of water (elevation change). No low emitter drainage, great on slopes. Delivers more precise watering.

#### UNIQUE PATENTED EMITTER DESIGN WITH PHYSICAL ROOT BARRIER

Offset flow path, extra large bath area and raised outlet prevent root intrusion without chemical reliance.

#### PRESSURE COMPENSATING

Precise and equal amounts of water are delivered over a broad pressure range.

#### CONTINUOUS SELF-FLUSHING EMITTER DESIGN

Flushes debris as it is detected, throughout operation, not just at the beginning or end of a cycle, ensuring uninterrupted emitter operation.

#### EMITTER WITH ANTI-SIPHON FEATURE

Prevents ingestion of debris into tubing caused by vacuum.

#### SELF-CONTAINED, ONE-PIECE DRIPLINE CONSTRUCTION

Assures reliable, easy installation.

#### FLEXIBLE UV RESISTANT TUBING

Adapts to any planting area shape - tubing curves at a 7" radius. For on-surface installations withstands heat and direct sun.

#### MAKES INSTALLATION QUICKER

Does not require air/vacuum relief vent or automatic flush valve for on-surface or subsurface installations. Use manual flush valves at exhaust headers.



**LASER ETCHING**  
FOR EASY IDENTIFICATION



**TECHLINE CV**  
MADE WITH POST CONSUMER RECYCLED MATERIAL



QUALIFIES FOR USE ON LEED PROJECTS

#### LIMITED WARRANTY FOR DRIPLINES

Netafim warrants any polyethylene tubing and driplines (Techline® HCVXR, HCVXR-RW and RWP, CV, DL, RW, RWP and EZ) sold to be free from original defects in materials and workmanship for a period of seven (7) years and ten (10) years for environmental stress cracking - from the date of original delivery.

| GENERAL GUIDELINES                  | TURF  |      |      |           |      |      |            |      |      |             |      | SHRUB & GROUNDCOVER  |      |           |      |            |      |             |      |      |      |      |      |      |
|-------------------------------------|---|------|------|-----------|------|------|------------|------|------|-------------|------|--|------|-----------|------|------------|------|-------------|------|------|------|------|------|------|
|                                     | CLAY SOIL                                     |      |      | LOAM SOIL |      |      | SANDY SOIL |      |      | COARSE SOIL |      | CLAY SOIL  |      | LOAM SOIL |      | SANDY SOIL |      | COARSE SOIL |      |      |      |      |      |      |
| EMITTER FLOW                        | 0.26 GPH                                      |      |      | 0.4 GPH   |      |      | 0.6 GPH    |      |      | 0.9 GPH     |      | 0.26 GPH   |      | 0.4 GPH   |      | 0.6 GPH    |      | 0.9 GPH     |      |      |      |      |      |      |
| EMITTER SPACING                     | 18"   |      |      | 12"       |      |      | 12"        |      |      | 12"         |      | 18"  |      | 18"       |      | 12"        |      | 12"         |      |      |      |      |      |      |
| LATERAL (ROW) SPACING               | 18"   | 20"  | 22"  | 12"       | 14"  | 18"  | 12"        | 14"  | 18"  | 12"         | 14"  | 16"  | 18"  | 21"       | 24"  | 18"        | 21"  | 24"         | 16"  | 18"  | 20"  | 16"  | 18"  | 20"  |
| BURIAL DEPTH                        | Bury evenly throughout the zone from 4" to 6" |      |      |           |      |      |            |      |      |             |      | On-surface or bury evenly throughout the zone to a maximum of 6" |      |           |      |            |      |             |      |      |      |      |      |      |
| APPLICATION RATE (INCHES/HOUR)      | 0.19  | 0.17 | 0.15 | 0.64      | 0.55 | 0.43 | 0.98       | 0.84 | 0.65 | 1.48        | 1.27 | 1.11   | 0.19 | 0.16      | 0.14 | 0.30       | 0.26 | 0.23        | 0.73 | 0.65 | 0.59 | 1.11 | 0.99 | 0.89 |
| TIME TO APPLY ¼" OF WATER (MINUTES) | 80  | 89   | 97   | 23        | 27   | 35   | 15         | 18   | 23   | 10          | 12   | 13   | 80   | 93        | 106  | 50         | 58   | 66          | 20   | 23   | 26   | 13   | 15   | 17   |

Following these maximum spacing guidelines, emitter flow selection can be increased if desired by the designer.  
0.9 GPH flow rate available for areas requiring higher infiltration rates, such as coarse sandy soils.

Note: 0.4, 0.6 and 0.9 GPH are nominal flow rates. Actual flow rates used in the calculations are 0.42, 0.61 and 0.92 GPH.

### SPECIFYING MODEL NUMBER

Reference for Ordering Information Chart

**A** Techline CV Dripline = **TLCV**

**SAMPLE MODEL NUMBER**  
**TLCV4-1210**  
 (A) (B) (C) (D)

**BLANK TUBING MODEL NUMBERS:**  
 100' = TLCV001  
 250' = TLCV0025  
 500' = TLCV005  
 1,000' = TLCV010

**B** **EMITTER FLOW RATE**  
 0.26 GPH = **26**  
 0.4 GPH = **4**  
 0.6 GPH = **6**  
 0.9 GPH = **9**

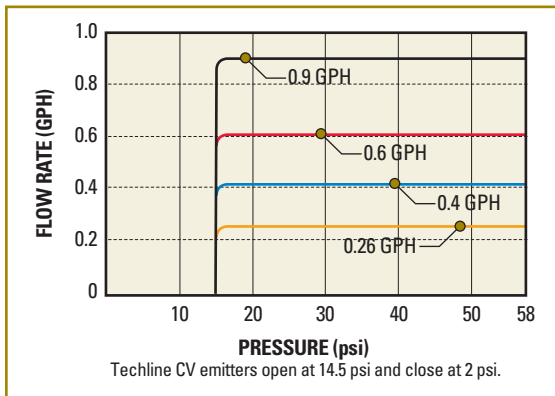
**C** **EMITTER SPACING**  
 12" = **12**  
 18" = **18**  
 24" = **24**

**D** **COIL LENGTH**  
 100' = **01**  
 250' = **025**  
 500' = **05**  
 1,000' = **10**

### ORDERING INFORMATION

| FLOW RATE | EMITTER SPACING | COIL LENGTH | MODEL NUMBER |
|-----------|-----------------|-------------|--------------|
| 0.26 GPH  | 12"             | 100'        | TLCV26-1201  |
|           |                 | 250'        | TLCV26-12025 |
|           |                 | 1,000'      | TLCV26-1210  |
|           | 18"             | 100'        | TLCV26-1801  |
|           |                 | 250'        | TLCV26-18025 |
|           |                 | 1,000'      | TLCV26-1810  |
| 0.4 GPH   | 12"             | 100'        | TLCV4-1201   |
|           |                 | 250'        | TLCV4-12025  |
|           |                 | 1,000'      | TLCV4-1210   |
|           | 18"             | 100'        | TLCV4-1801   |
|           |                 | 250'        | TLCV4-18025  |
|           |                 | 1,000'      | TLCV4-1810   |
| 0.6 GPH   | 12"             | 100'        | TLCV6-1201   |
|           |                 | 250'        | TLCV6-12025  |
|           |                 | 500'        | TLCV6-1205   |
|           |                 | 1,000'      | TLCV6-1210   |
|           | 18"             | 100'        | TLCV6-1801   |
|           |                 | 250'        | TLCV6-18025  |
|           |                 | 500'        | TLCV6-1805   |
|           |                 | 1,000'      | TLCV6-1810   |
|           | 24"             | 100'        | TLCV6-2401   |
|           |                 | 250'        | TLCV6-24025  |
|           |                 | 1,000'      | TLCV6-2410   |
|           |                 | 0.9 GPH     | 12"          |
| 250'      | TLCV9-12025     |             |              |
| 500'      | TLCV9-1205      |             |              |
| 1,000'    | TLCV9-1210      |             |              |
| 18"       | 100'            |             | TLCV9-1801   |
|           | 250'            |             | TLCV9-18025  |
|           | 500'            |             | TLCV9-1805   |
|           | 1,000'          |             | TLCV9-1810   |
| 24"       | 100'            |             | TLCV9-2401   |
|           | 250'            |             | TLCV9-24025  |
|           | 1,000'          |             | TLCV9-2410   |
|           | BLANK TUBING    |             | 100'         |
| 250'      |                 | TLCV0025    |              |
| 500'      |                 | TLCV005     |              |
| 1,000'    |                 | TLCV010     |              |

### FLOW RATE VS. PRESSURE



### FLOW PER 100 FEET

| EMITTER SPACING | 0.26 EMITTER |      | 0.4 EMITTER |      | 0.6 EMITTER |      | 0.9 EMITTER |      |
|-----------------|--------------|------|-------------|------|-------------|------|-------------|------|
|                 | GPH          | GPM  | GPH         | GPM  | GPH         | GPM  | GPH         | GPM  |
| 12"             | 26.4         | 0.44 | 42.3        | 0.71 | 60.8        | 1.01 | 92.5        | 1.54 |
| 18"             | 17.6         | 0.29 | 28.2        | 0.47 | 40.5        | 0.68 | 61.6        | 1.03 |
| 24"             | -            | -    | -           | -    | 30.4        | 0.51 | 46.2        | 0.77 |

### MAXIMUM LENGTH OF A SINGLE LATERAL (FEET)

| EMITTER SPACING    |        | 12"  |     |     |     | 18"  |     |     |     | 24" |     |
|--------------------|--------|------|-----|-----|-----|------|-----|-----|-----|-----|-----|
| EMITTER FLOW (GPH) |        | 0.26 | 0.4 | 0.6 | 0.9 | 0.26 | 0.4 | 0.6 | 0.9 | 0.6 | 0.9 |
| INLET PRESSURE     | 20 psi | 331  | 242 | 190 | 144 | 468  | 344 | 270 | 204 | 342 | 260 |
|                    | 25 psi | 413  | 302 | 238 | 180 | 584  | 429 | 338 | 257 | 430 | 326 |
|                    | 35 psi | 518  | 380 | 299 | 227 | 737  | 540 | 426 | 323 | 542 | 412 |
|                    | 45 psi | 594  | 436 | 343 | 260 | 845  | 620 | 489 | 371 | 622 | 472 |
|                    | 55 psi | 655  | 480 | 378 | 287 | 932  | 684 | 539 | 410 | 686 | 522 |
|                    | 60 psi | 681  | 500 | 393 | 298 | 969  | 713 | 561 | 426 | 716 | 544 |

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 NETAFIM USA  
 CS 888 638 2346  
 www.netafimusa.com