TECHLINE CV QUICK INSTALL GUIDE

Estimating How Much Techline CV to Use
Multiply the square footage of the area x 12, divide that number by the minimum recommended row spacing from the General Guidelines Chart. (See back of sheet for more information.)

Fittings
- Techline CV fittings are recommended. They are the fastest to install, most economical and do not require clamps at pressures less than 50 psi.
- ½" Poly insert fittings with clamps can be used.
- 700 Series compression fittings can also be used.

Low Volume Control Zone Kit
Pre-assembled valve, disc filter and pressure regulator is more convenient to use than separate valve, filter and pressure regulator.

Two Models Available:
- Model # LVCZS8010075-LF (0.25 - 4.4 GPM)
- Model # LVCZS8010075-HF (4.5 - 17.6 GPM)

Subsurface Layout
Layout Tips and Recommendations
Techline CV can be installed subsurface buried evenly up to 6”.
Use guidelines to select which Techline CV to use and how much to apply properly.

Supply & Exhaust Headers
Most often used in subsurface systems. Use Techline CV Blank Tubing if zone is under 5 GPM or PVC/PE pipe if above.

½" MPT Adapter TL050MA
Insert Adapter for 1" or Larger PE TLIAPE-B
Insert Adapter for ½" or Larger PVC TLIAPVC-B

6" Soil Staple TLS6

Staples
Use one TLS6 staple every 3’ of Techline CV in sand, every 4’ in loam and every 5’ feet in clay.

Manual Flush Valve
Use TLSOV or TLFIG8. Normally placed along exhaust header or at the point farthest away from the control zone kit. Install in the valve box with a gravel sump.

Shut-off Valve TLSOV

Figure 8 Line End TLFIG8

Techline CV Dripline
Start rows of Techline CV 2” from hardscapes and 4” from softscapes.
**PRODUCT SELECTION GUIDELINE CHARTS**

### GENERAL GUIDELINES

**TURF**

<table>
<thead>
<tr>
<th>Emitter Flow (GPH)</th>
<th>0.26</th>
<th>0.4</th>
<th>0.6</th>
<th>0.9</th>
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<tbody>
<tr>
<td>Burial Depth (in)</td>
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<td>12&quot;</td>
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<tr>
<td>Lateral (Row) Spacing (in)</td>
<td>18&quot;</td>
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**SHRUB & GROUND COVER**

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

<table>
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<td>12&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>Pressure (psi)</td>
<td>20</td>
<td>25</td>
<td>35</td>
<td>45</td>
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<tr>
<td>Flow per 100 Feet</td>
<td>545</td>
<td>485</td>
<td>340</td>
<td>260</td>
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</tbody>
</table>

### FLOW PER 100 FEET

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>12&quot;</td>
<td>26.00 GPH</td>
<td>42.00 GPH</td>
<td>60.00 GPH</td>
<td>92.50 GPH</td>
</tr>
<tr>
<td>18&quot;</td>
<td>17.58 GPH</td>
<td>28.00 GPH</td>
<td>40.67 GPH</td>
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<tr>
<td>24&quot;</td>
<td>Not Standard</td>
<td>Not Standard</td>
<td>30.51 GPH</td>
<td>46.25 GPH</td>
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</tbody>
</table>

### NETAFIM COIL LABEL CODE KEY

- **Flow Rate/Spacing:**
  - 0.26
  - 0.4
  - 0.6
  - 0.9
  - 12" 18" 24"

**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.

**Netafim Coil Label Code Key**
- Each coil has a label that is coded with color and graphic shapes for easy flow rate and emitter spacing identification. The flip side of the label includes a quick station run time guide.

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**FITTINGS**

- Insert Coupling
- Insert Elbow
- Insert Tee
- Insert Cross
- ¾" MPT Adapter
- Combination Two Inlet x (1" or 1½"") PTF Model TL050M1-B
- In-Line Check Valve
- Drill Bit for PVC Insert Adapter Model TSB116S
- In-Line Check Valve

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**STEPS FOR CHOOSING AND APPLYING TECHLINE® CV**

1. What are you irrigating - shrubs and ground cover or turf areas?
2. What type of soil do you have - clay, loam or sand?
3. How many square feet are going to be irrigated?

**Use this simple formula for calculating approximately how much Techline CV to use in the area.**

- Multiply the square footage of the area x 12
- Divide that number by the minimum number of inches apart the rows should be (also called Lateral (Row) spacing)

**This number is found in the General Guidelines chart.** While this quick formula is not meant to replace an actual design and take-off, you will have a fairly accurate idea of how many feet of dripline you will need.

**Refer to the General Guidelines Chart**

- For example, when irrigating shrubs in loam soil, choose Techline CV with 0.4 GPH (gallons per hour) emitters and 18” emitter spaces (emitters are spaced 18” apart inside the tubing). Note: the box in the General Guidelines chart highlighting 0.4/18” column. This chart gives you important information including:
  - How many inches apart the rows will go (18” - 24”)
  - To what depth you can bury the Techline CV (a maximum of 6”)
  - How long to run the zone to apply ¼” of water (52 minutes for rows spaced 18: apart and 71 minutes for rows spaced 24” apart)

**Refer to the Maximum Length of a Single Lateral Chart**

- Based on the Techline CV you choose (for our continuing example we will use 0.4/18” Techline CV), this chart will tell you how far you can run a length of Techline CV.

**Note:** The maximum length of each lateral is dependent on the pressure at the beginning (also called Lateral (Row) spacing) of the lateral. If the pressure is 25 psi, you can safely run a 0.4/18” Techline CV lateral up to 664’. If the pressure is 20 psi, the maximum length of the run of 459’. The Flow per 100 Feet Chart tells you how many GPM (gallons per minute ) and GPH (gallons per hour) the Techline CV will use.

**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.

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**CLAY SOIL LOAM SOIL SANDY SOIL COARSE SOIL**

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