

# 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, 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)

## LITE LAYOUT

### LAYOUT TIPS AND RECOMMENDATIONS

Techline CV can be installed on-surface, under mulch or subsurface buried evenly up to 6". Use guidelines to select which Techline CV to use and how much to apply properly.

### MULCH OR DECOMPOSED GRANITE

Add weed barrier as needed.

### LOW VOLUME CONTROL ZONE KIT

For easy installation of a valve, disc filter and pressure regulator valve (PRV)\* use Netafim's Low Volume Control Zone Kit in a standard 12" Valve Box. Models are available with a pre-assembled with 1" Control Valve, ¾" Disc Filter and High/Low Flow Pressure Regulator.

- Low Flow** (0.25 - 4.4 GPM)  
LVCZS8010075-LF  
LVCZNV10075-LF (No Control Valve)
- High Flow** (4.5 - 17.6 GPM)  
LVCZS8010075-HF  
LVCZNV10075-HF (No Control Valve)

### SUPPLY LATERAL

Use Techline CV Blank Tubing if zone is under 5 GPM or PVC/PE pipe if over 5 GPM.

### TECHLINE CV DRIPLINE

Start rows of Techline CV 2" from hardscapes and 4" from softscapes.



Techline CV Dripline TLCV

### 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



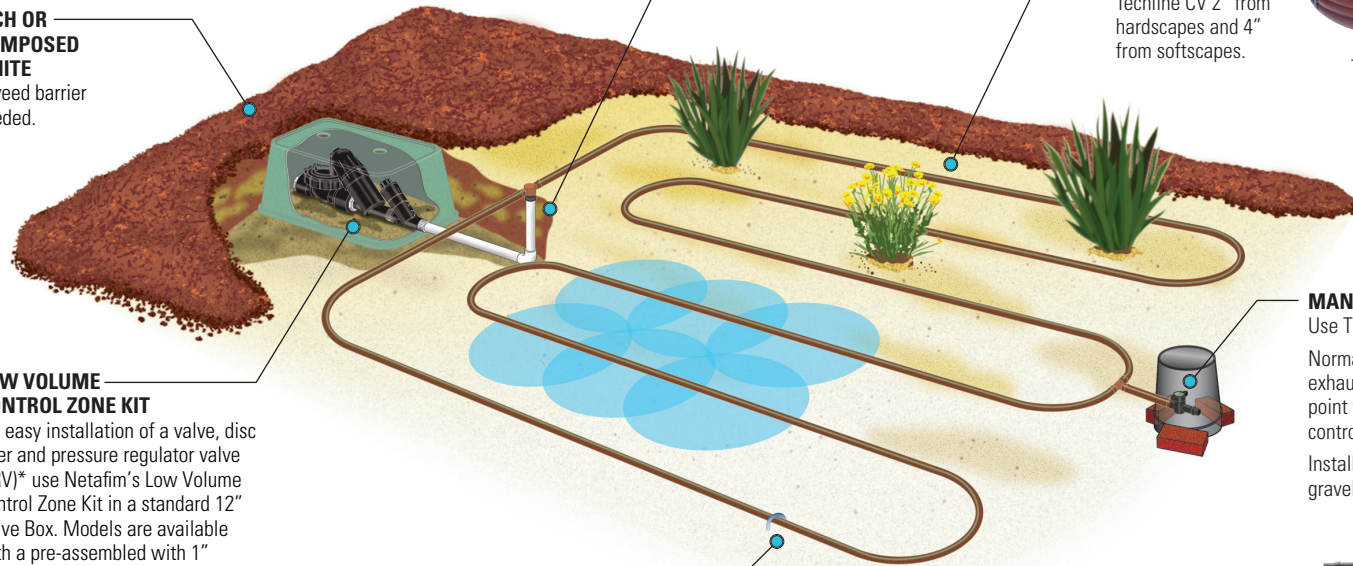
Figure 8 Line End TLFIG8

### STAPLES

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



6" Soil Staple TLS6



# STEPS FOR CHOOSING AND APPLYING TECHLINE® CV

## FITTINGS



Insert Coupling  
Model TLCOUP



Insert Elbow  
Model TLELL



Insert Tee  
Model TLTEE



Insert Cross  
Model TLCROS



1/2" MPT Adapter  
Model TL050MA



3/4" MPT Adapter  
Model TL075MA



Combination Tee  
Ins x Ins x 1/4" FPT  
Model TL075FTEE



3/4" MPT X "V"  
Model TL2W075MA



Insert Adapter for 1"  
or Larger PE  
(requires 11mm or 7/16" punch)  
Model TLIAPE-B



Insert Adapter  
for 1 1/2" or Larger PVC  
(requires TDBIT16.5)  
Model TLIAPEC-B



Drill Bit for PVC  
Insert Adapter  
Model TDBIT16.5



Figure 8 Line End  
Model TLFIG8



In-Line Check Valve  
1/2" MPT  
Model TLCV050M1-B



Dripper Micro-Tubing Adapter  
Model TLMTUBEADP



6" Soil Staple  
(Place approximately every 3'-5'  
of tubing, plus two on each  
tee, elbow or cross)  
Model TLS6



Manual Flush Valve  
Model TLSOV

## PRODUCT SELECTION GUIDELINE CHARTS

GENERAL GUIDELINES	TURF												SHRUB & GROUND COVER											
	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"	18"	20"	22"	12"	14"	16"	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	0.45	0.41	0.37	0.96	0.83	0.72	1.44	1.24	1.08	0.19	0.16	0.14	0.29	0.24	0.21	0.72	0.64	0.58	1.08	0.96	0.87
TIME TO APPLY 1/4" OF WATER (MINUTES)	81	90	99	33	37	41	16	18	21	10	12	14	81	94	108	53	61	70	21	23	26	14	16	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.

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

EMITTER SPACING	12"				18"				24"	
	0.26	0.4	0.6	0.9	0.26	0.4	0.6	0.9	0.6	0.9
INLET PRESSURE										
20 psi	320	235	185	135	455	330	260	195	330	245
25 psi	405	295	235	175	575	420	330	250	420	315
35 psi	515	375	295	225	730	535	420	320	535	405
45 psi	590	435	340	260	840	615	485	370	620	470

### 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"	26.40	0.44	42.00	0.70	61.00	1.02	92.50	1.54
18"	17.58	0.29	28.00	0.47	40.67	0.68	61.67	1.03
24"	Not Standard		Not Standard		30.50	0.51	46.25	0.77

### NETAFIM COIL LABEL CODE KEY

FLOW RATE / SPACING	12"	18"	24"
0.26	▼	■	●
0.4	▼	■	●
0.6	▼	■	●
0.9	▼	■	●

#### 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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