

# 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:

- Item # 76601-005320 or Model # LVCZ10075-LF (0.25 - 4.4 GPM)
- Item # 76601-005300 or Model # LVCZ10075-HF (4.5 - 17.6 GPM)

## SURFACE/SUBSURFACE LAYOUT

### LAYOUT TIPS AND RECOMMENDATIONS

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

### 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. Two models are available with a pre-assembled 1" valve, ¾" disc filter.

**Low Flow** (0.25 - 4.4 GPM)

LVCZ10075-LF

**High Flow** (4.5 - 17.6 GPM)

LVCZ10075-HF



Techline CV Drinkerline  
TLCV

### TECHLINE CV DRIPPERLINE

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

### EXHAUST HEADERS

Most often used in subsurface systems - may not be necessary if Techline CV is laid on-surface. Use Techline CV Blank Tubing if zone is under 5 GPM or PVC/PE pipe if above.

### SUPPLY HEADERS

Most often used in subsurface systems - may not be necessary if Techline CV is laid on-surface. 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 1½" or Larger PVC  
TLIAPVC-B

### STAPLES

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



6" Soil Staple  
TLS6

### LINE FLUSHING VALVE

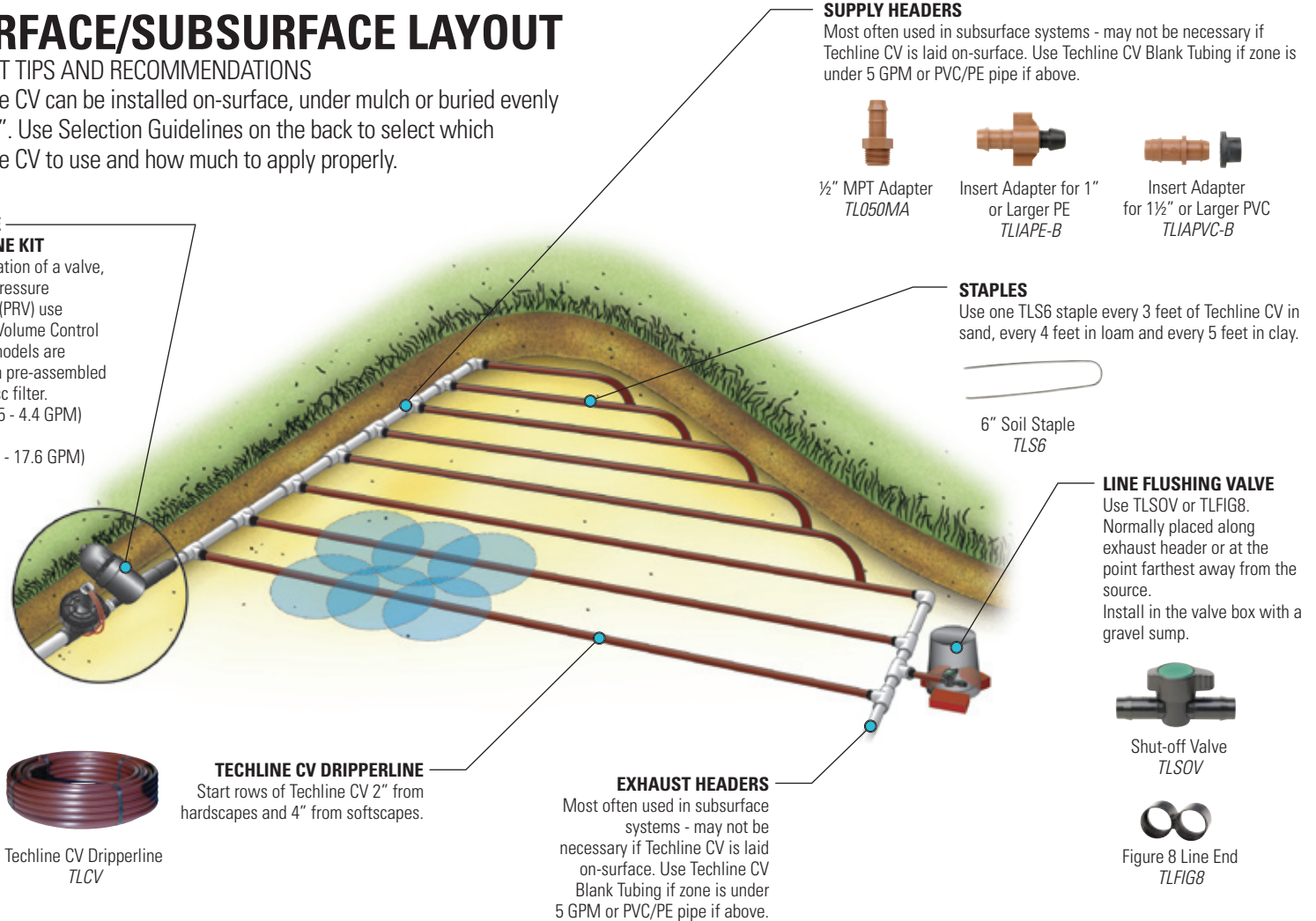
Use TLSOV or TLFIG8. Normally placed along exhaust header or at the point farthest away from the source. Install in the valve box with a gravel sump.



Shut-off Valve  
TLSOV



Figure 8 Line End  
TLFIG8



# STEPS FOR CHOOSING AND APPLYING TECHLINE® CV

To determine the proper Techline CV to use on your project, you will need to know the following:

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 Techline CV Lateral Spacing).

This number is found on the Techline CV 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 dripperline you will need.

## Refer to the Techline CV General Guidelines Chart

For example, when irrigating shrubs in loam soil, choose Techline CV with 0.4 GPH (gallons per hour) drippers and 18" dripper spacings (drippers are spaced 18" apart inside the tubing). Note: the box on the General Guidelines chart highlighting the 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")
- What the application rate is (0.29 in/hour with rows 18" apart and 0.21 in/hour with rows 24" apart)
- How long to run the zone to apply 1/4" of water (52 minutes for rows spaced 18" apart and 71 minutes for rows spaced 24" apart)

## Refer to the Techline CV 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 of the lateral. If the pressure is 45 psi, you can safely run a 0.4/18" Techline CV lateral up to 664'. If the pressure is 25 psi, the maximum length of the run is 459'.

**The Techline CV Flow per 100 Feet Chart** tells you how many GPM (gallons per minute) and GPH (gallons per hour) the Techline CV will use. Note: 0.4/18 example - every 100' will use 26.67 GPH or 0.44 GPM.

## PRODUCT SELECTION GUIDELINE CHARTS

### GENERAL GUIDELINES

	TURF			SHRUB & GROUND COVER		
	Clay Soil	Loam Soil	Sandy Soil	Clay Soil	Loam Soil	Sandy Soil
Dripper Flow	0.26 GPH	0.4 GPH	0.6 GPH	0.26 GPH	0.4 GPH	0.6 GPH
Dripper Interval	18"	12"	12"	18"	18"	12"
Lateral (Row) Spacing	18" - 22"	18" - 22"	12" - 16"	18" - 24"	18" - 24"	16" - 20"
Burial Depth	On-surface or bury evenly throughout the zone to a maximum of 6"					
Application Rate (inches/hour)	.19 - .15	.43 - .35	.96 - .72	.19 - .14	.29 - .21	.72 - .58
Time to Apply 1/4" of Water (minutes)	79 - 100	35 - 43	16 - 21	79 - 107	52 - 71	21 - 26

Following these maximum spacing guidelines, dripper 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.

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

DRIPPER SPACING	12"			18"			24"				
Dripper Flow Rate (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	367	277	218	166	502	323	299	227	283	373
	25 psi	427	325	256	194	604	459	361	274	458	348
	35 psi	539	409	322	244	763	579	456	346	580	440
	45 psi	618	469	369	280	877	664	523	397	666	506

Dripperline available in 100, 250 and 1,000 foot coils.

### FLOW PER 100 FEET

DRIPPER SPACING	0.26 DRIPPER		0.4 DRIPPER		0.6 DRIPPER		0.9 DRIPPER	
	GPH	GPM	GPH	GPM	GPH	GPM	GPH	GPM
12"	26.40	0.44	40.00	0.67	61.00	1.02	92.00	1.53
18"	17.58	0.29	26.67	0.44	41.00	0.68	61.00	1.02
24"	Not Available		Not Available		31.00	0.51	46.00	0.77

### NETAFIM COIL LABEL CODE KEY

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

Each coil has a label that is coded with color and graphic shapes for easy flow rate and dripper spacing identification.



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