LANDSCAPE & TURF



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

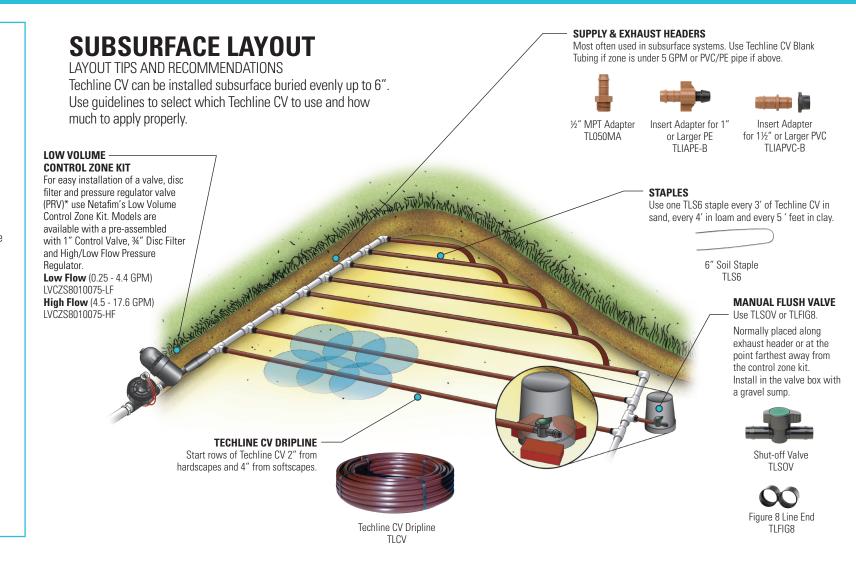
- Techline CV fittings are recommended. They are the fastest to install, most economical and do not require clamps at pressures less than 50 psi.
- ½" Poly insert fittings with clamps can be used.
- 700 Series compression fittings can also be used.

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)



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 Lateral (Row) spacing)

This number is found in the General Guidelines chart. While this guick 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 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 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 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: 0.4/18" example - every 100' will use 26.67 GPH or 0.44 GPM.

PRODUCT SELECTION GUIDELINE CHARTS

	TURF				SHRUB & GROUNDCOVER																			
GENERAL GUIDELINES	CL	AY S	OIL	LO/	AM S	OIL	SAN	IDY S	SOIL	COA	RSE	SOIL	CL	AY S	OIL	LOA	M S	OIL	SAN	IDY S	SOIL	COA	RSE S	SOIL
EMITTER FLOW	0.2	26 GF	РΗ	0.	.4 GP	Ή	0.	6 GP	Н	0.	9 GP	Н	0.2	26 GF	Ή	0.4	I GP	Н	0.	6 GP	Н	0.9	9 GPI	Н
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 ¼" 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.																								

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)

EMI	TTER SPACING		12	2"			18	24"			
EMI	TTER FLOW (GPH)	0.26	0.4	0.6	0.9	0.26	0.4	0.6	0.9	0.6	0.9
뿔	20 psi	320	235	185	135	455	330	260	195	330	245
PRESSURE	25 psi	405	295	235	175	575	420	330	250	420	315
	35 psi	515	375	295	225	730	535	420	320	535	405
IN LEI	45 psi	590	435	340	260	840	615	485	370	620	470

FLOW PER 100 FEET

EMITTER	0.26 EN	MITTER	0.4 EM	IITTER	0.6 EN	IITTER	0.9 EMITTER		
SPACING	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 Sta	andard	30.50	0.51	46.25	0.77	

NETAFIM COIL LABEL CODE KEY

FLOW RATE / SPACING	12"	18"	24"
0.26			
0.4	\blacksquare		•
0.6	▼		•
0.9	\blacksquare		•

Netafim Coil Label Code Kev

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.

FITTINGS















Model TL050MA



Model TI 075MA



Combination Tee Ins x Ins x 3/4" FPT Model TL075FTFF



36" MPT X "V" Model TL2W075MA



Insert Adanter Model TDRIT16 5



In-Line Check Valve Model TI CV050M1-R



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