

LANDSCAPE & TURF TECHLINE® CV & TECHLINE® QUICK INSTALL GUIDE

Typical Netafim Techline CV / Techline Dripperline On-Surface Layout Tips and Recommendations

Selecting the correct Netafim Techline CV and Techline Dripperline

Use the appropriate General Guidelines chart to determine which dripperline to use, and how far apart to space rows. Techline CV and Techline dripperline are designed to be used either on-surface or subsurface. When designing a subsurface zone, a "grid" layout is recommended. This on-surface method requires only two fittings. One tee fitting is used at the beginning of the zone. The second tee fitting is used to connect the dripperline to a line flushing valve.

Estimating Total Length of Dripperline (ft.) =

$$\frac{\text{Irrigated Area (sq. ft.)} \times 12}{\text{Minimum Recommended Row Spacing (in.)}}$$

Fittings

- Techline CV or Techline fittings are recommended. They are the fastest and most economical fittings to use, and do not require clamps when used as recommended.
- 1/2" Poly insert fittings with clamps can be used.

Staples

- Use 1 **TLS6** staple for:
- Every 3' of Techline CV or Techline in sand, every 4' in loam and every 5' in clay.
 - Use 2 staples over each tee, elbow or cross. **Caution - Landscape fabric staples and other non-stainless steel staples rust away quickly and are not recommended.**

Pressure Regulating Valve (PRV)

Install *after* the zone valve and filter.

- Use PRV075LF42V2K from 0.25 - 4.4 GPM
- Use PRV075HF45V2K from 3.5 - 17.6 GPM

Filters

Placed before or after the zone valve. Filter size is based on zone flow:

- 3/4" filter - up to 17 GPM
- Use 120 or 140 mesh
- Netafim USA sells a large variety of filters - up to 4,400 GPM - Call Netafim USA Customer Service for more information.

Start rows 2" from hardscapes and 4" from softscapes.

Low Volume Control Zone Kits

For easy installation of a valve, filter and pressure regulator use Netafim USA's Low Volume Control Kit. Two pre-assembled models are available:

- LVCZ10075-LF: Low Flow, 0.25 - 4.4 GPM
- LVCZ10075-HF: High Flow, 3.5 - 17.6 GPM

Line Flushing Valves

- Normally placed at the point farthest away from the source.
- Install in a valve box with a gravel sump able to drain about one gallon of water.

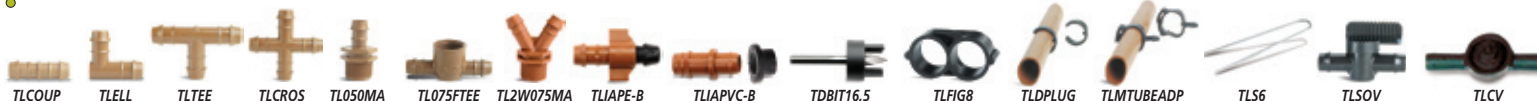
With Techline CV Dripperline

- Use TLSOV or TLFIG8.
- An automatic line flushing valve may be used but some water may drain from it after zone shutdown.

With Techline Dripperline

- Use one Line Flushing Valve for every 15 GPM of zone flow.
- TLSOV or TLFIG8 may be substituted.

Fittings



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TECHLINE® CV & TECHLINE® DRIPPERLINE

Deciding Which Product to Use

Techline CV Dripperline Features:

- Pressure compensating from 14.7 - 70 psi
- Continuous self-flushing drippers
- Flow rates: 0.26, 0.4, 0.6, 0.9 GPH
- On-surface or subsurface installations
- Check Valves in each dripper hold back a 4 1/2 feet column of water:
 - requires 14.7 psi to open the dripperline
 - dripperline closes at 2-psi

Techline Dripperline Features:

- Pressure compensating from 7 - 70 psi
- Continuous self-flushing drippers
- Flow rates: 0.4, 0.6 and 0.9 GPH
- On-surface or subsurface installations

Techline CV

TECHLINE CV® General Guidelines

	TURF			SHRUB AND 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 inches					
Application Rate (inch/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

Maximum spacing recommendations: Following these spacing guidelines, dripper flow selection can be increased if desired by the designer.

Techline

TECHLINE® General Guidelines

	TURF			SHRUB AND GROUND COVER		
	Clay Soil	Loam Soil	Sandy Soil	Clay Soil	Loam Soil	Sandy Soil
Dripper Flow	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 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 inches					
Application Rate (inch/hour)	.29 - .23	.64 - .53	1.44 - 1.08	.29 - .21	.43 - .32	1.08 - .87
Time to Apply 1/4" of Water (minutes)	52 - 65	23 - 28	10 - 14	52 - 71	35 - 47	14 - 17

Maximum spacing recommendations: Following these spacing guidelines, dripper flow selection can be increased if desired by the designer.

TECHLINE CV® 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 (psi)	15	127	109	86	65	177	151	120	91	152	116
	25	427	325	256	194	604	459	361	274	458	348
	35	539	409	322	244	763	579	456	346	580	440
	45	618	469	369	280	877	664	523	397	666	506

TECHLINE® Maximum Length of a Single Lateral (feet)

Dripper Spacing	12"			18"			24"		
Dripper Flow Rate (GPH)	0.4	0.6	0.9	0.4	0.6	0.9	0.6	0.9	
Inlet Pressure (psi)	15	292	233	175	410	322	247	405	308
	25	397	312	238	558	438	335	553	423
	35	486	365	279	656	514	394	649	497
	45	520	407	311	732	574	439	725	555

TECHLINE CV® Flow per 100 Feet

Dripper Spacing	0.26 GPH Dripper		0.4 GPH Dripper		0.6 GPH Dripper		0.9 GPH 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"	N/A	N/A	N/A	N/A	31.00	0.51	46.00	0.77

TECHLINE® Flow per 100 Feet

Dripper Spacing	0.4 GPH Dripper		0.6 GPH Dripper		0.9 GPH Dripper	
	GPH	GPM	GPH	GPM	GPH	GPM
12"	40.00	0.67	61.00	1.02	92.00	1.53
18"	26.67	0.44	41.00	0.68	61.00	1.02
24"	N/A	N/A	31.00	0.51	46.00	0.77



For more information call your Authorized Netafim USA Distributor or call Netafim USA Customer Service at (888) 638-2346.