

“Why is pressure so important for CV Dripline?”

When installing dripline with a check valve the pressure is critical to insure that the emitters open and provide the specified flow rate. Landscape Products EZ-ID CV requires a minimum opening pressure of 12.0 psi at the emitter. Other CV dripline emitters require higher opening pressures - (Techline CV is 14.5 psi and Rain Bird XFCV is 20 psi.) Non-check valve pressure compensated dripline is a little more forgiving as it has a lower opening pressure and will emit water at lower pressures. Contractors must be aware when adding or replacing dripline with CV on an existing PC installation.

Dripline Selection Guidelines

	Clay	Loam	Sand
Nominal Emitter Flow Rate	0.4 gph	0.6 gph	1.0 gph
EZ-ID Color Code	Orange	Blue	White
Emitter Spacing	18"	12"	12"
Dripline Row Spacing	18"	18"	12"
Application Rate (Inches/Hour)	0.29	0.64	1.60
Time to Apply 1/4" of Water	53 mins.	23 mins.	10 mins.

Flow Rate Conversion gph to gpm per 100'

Emitter Spacing	Nominal Flow Rate (gph/gpm)		
	0.4	0.6	1.0
12"	40 / 0.67	60 / 1	100 / 1.67
18"	26.67 / 0.44	40 / 0.67	66 / 1.11

Single Lateral Maximum Run Length (Feet)

Inlet Pressure (psi)	12" Spacing			18" Spacing		
	Nominal Flow Rate (gph)			Nominal Flow Rate (gph)		
	0.4	0.6	1.0	0.4	0.6	1.0
15	220	170	125	285	240	170
25	326	255	195	495	370	275
35	410	330	238	572	470	335
45	474	360	270	640	515	375

As with sprinklers & rotary heads, two factors come into play with dripline installations, the available flow and the outlet pressure from the drip control zone kit. Let's use an example of 12 GPM available and a 25 psi control zone kit. If we use 0.6 gph dripline with 12 inch emitter spacing we can only install a maximum 1200' of dripline with no single run greater than 255'.

A great rule of thumb for dripline installation challenges is to ask yourself ***“how would I do this if I was installing sprinklers?”*** The hydraulic solutions are the same.