Drip Irrigation Kit

Click on this link and search for each item number in the “website search box” adding the appropriate quantity to your cart and then check out. This kit is designed in sections. Each section is designed to irrigate one 30”bed. If you want to link kits together to irrigate a 4 bed block for example, order 4 times the parts. The only items you will need to order 1 of regardless of number of beds in the block is the ball valve and its perma-loc connector as this is how the system is closed. Drip systems operate on low pressure. I run this system on a 15psi reducer and the manifold system listed on my website.

The link above https://aff.dripdepot.com/aff/idevaffiliate.php?id=360 is an affiliate link. This link will not charge you any more for the listed products but will give me a small percentage of the total sale. While this website is the company I use to purchase my irrigation supplies, it is not the only option for purchasing these supplies; however, I would greatly appreciate you using the affiliate link for your purchases.

Part Image	Part	Diagram Label	Quantity (per 50’ bed)	Drip Depot Item #
	¾ inch black poly tubing	I	Approximately 35” for the manifold head. You will need additional tubing for your water line or joining multiple manifolds.	3552
	¾ permaloc valve tee	J	1	9963
	8” wire staple	B	7	1503
	15mil P1 Ultra ⅝ drip tape with 8” emitter spacing at 0.25GPH	C	200’ per 50’ bed. emitter spacing and output can change based on your requirements/ water limitations. See the formula for help with this calculation..	2060
	Perma-Loc Tubing Male Pipe Threads Adapter ¾ MPT x ¾ Perma-Loc	K	1	1518

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	⅝ drip tape end with loop	A	4	13729
	PVC ¾ FPT Ball Valve	L	1	3409
	⅝ 3.6mm barb valve fitting	D	2	1225
	⅝ 3.6mm barb fitting	E	2	1075
	1/2" x 520" Thread Seal Tape by Orbit	-	1	2660
	¾ permaloc to MHT connector with cap	F	2	1522
	¾ barbed tee fitting	G	1	1785
	¾ stainless steel worm clamp	H	3	11254

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	¼ poly tubing punch	-	Optional: makes punching barb holes snap. This can be done with other tools though.	1174
	goof plug	-	Optional: used to patch holes punched in tubing in the wrong location.	1176
	permaloc tape coupling	-	Otional: used to splice drip tape together or repair a torn piece.	1224

This drip system is a modular system designed to be built off… you can run one bed or multiple beds by just adding additional poly tubing. Each manifold header controls a bed which gives you excellent control over the system. The drip tape listed in this particular system when paired with a 15PSI pressure reducer (like the one on the Red Fern Farm manifold kit) is designed to efficiently run with low yielding water systems.

Use the below formula to convert GPM/100' to GPH of one emitter. This will allow you to determine how much flow/ what tape you should use in this system. Any 5/8ths tape will work in this manifold system.

The **Flow Rate** will be the listed flow rate in GPM/100ft and the **Emitter Spacing** will be the listed emitter spacing in inches.

$$\left(\frac{\text{Flow Rate}}{(1200 / \text{Emitter Spacing})}\right) \times 60 = \text{GPH of 1 Emitter}$$