



# Primerus Products, LLC

## SPOT-SPITTER®

### Installation Instructions

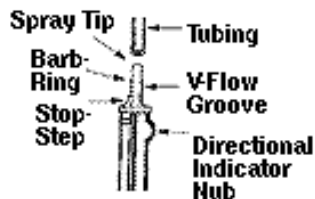
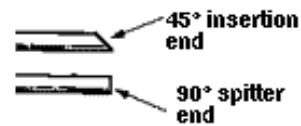
#### 1. SELECT A SPOT-SPITTER MODEL

Select the SPOT-SPITTER model (AboveGround, Short or DownSpray) that suits your application. For flow rate information, refer to the product data sheet for your SPOT-SPITTER model. For guidelines regarding the number of SPOT-SPITTERS permitted per hose lateral, refer to the following page.

#### 2. INSTALL TUBING ON SPOT-SPITTER

Determine the length of tubing required to reach from the hose lateral to the desired location of the SPOT-SPITTER. Length should be adequate to allow for thermal expansion and contraction of laterals, but should not exceed 5 feet.

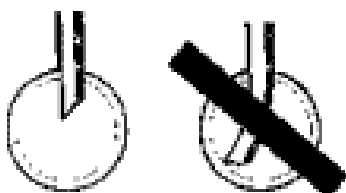
Cut one end (insertion end) at a 45° angle and the opposite end (spitter end) at a square 90° angle as shown. Confirm that both cuts are clean to ensure a water-tight fit. A clean 45° cut facilitates insertion and reduces the chance of tube blockage if inserted too deeply. A clean 90° cut ensures a proper flow pattern when fitted to the spray tip.



To install an AboveGround SPOT-SPITTER: insert the spray tip of the SPOT-SPITTER into the square-cut 90° end (spitter end) of the tubing as shown. Twist while pushing the tubing until its end passes the barb-ring on the spray tip. Do NOT push the tubing end past the stop-step. Twist the SPOT-SPITTER until the directional indicator nub (flat surface on SPOT-SPITTER SHORTS) faces the desired direction, and push the base of the SPOT-SPITTER into the soil to the desired depth.

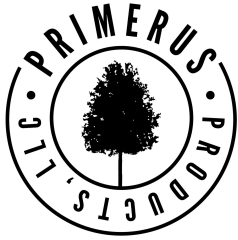
#### 3. CONNECT TO SUPPLY HOSE

Using a Primerus hole punch, create a hole in wall of the supply hose by pushing and twisting the punch into the hose. The hole punch has been specially designed to quickly create a large, clean hole that contracts within moments to create a leak-proof seal around inserted tubing.



Immediately after punching, insert the angled end of the tubing into the hole. Push until the angled end penetrates to about one third the diameter of the hose. No glue or fittings are needed.

**IMPORTANT:** the angled insertion end of the tubing must not touch the opposite side of the hose, as this may block flow.



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## SPOT-SPITTER® Lateral Design Guidelines

Use the tables below as a guideline to select appropriate lateral diameters given number of required SPOT-SPITTERS and lateral length.

Black High Flow 160° Spray Pattern	MAX NUMBER OF SPOT-SPITTERS			
	PE Supply Hose ID			
	0.580	0.620	0.830	1.049
Operating Pressure (PSI)				
15	19	22	40	64
20	16	18	33	53
25	14	16	29	46

Brown Low Flow 90° Spray Pattern	MAX NUMBER OF SPOT-SPITTERS			
	PE Supply Hose ID			
	0.580	0.620	0.830	1.049
Operating Pressure (PSI)				
15	45	52	93	149
20	37	42	76	122
25	31	36	64	103

Dk Green Low Flow 160° Spray Pattern	MAX NUMBER OF SPOT-SPITTERS			
	PE Supply Hose ID			
	0.580	0.620	0.830	1.049
Operating Pressure (PSI)				
15	25	29	52	84
20	21	24	44	70
25	18	21	38	61

Grey Mini Flow 90° Spray Pattern	MAX NUMBER OF SPOT-SPITTERS			
	PE Supply Hose ID			
	0.580	0.620	0.830	1.049
Operating Pressure (PSI)				
15	103	117	211	337
20	82	94	168	269
25	68	78	140	224

Avocado Low Flow 160° Spray Pattern	MAX NUMBER OF SPOT-SPITTERS			
	PE Supply Hose ID			
	0.580	0.620	0.830	1.049
Operating Pressure (PSI)				
15	45	52	93	149
20	37	42	76	122
25	34	39	70	112

Blue Med Flow 90° Spray Pattern	MAX NUMBER OF SPOT-SPITTERS			
	PE Supply Hose ID			
	0.580	0.620	0.830	1.049
Operating Pressure (PSI)				
15	27	31	56	89
20	22	26	46	74
25	19	22	40	64

Terra Cotta Mini Flow 160° Spray Pattern	MAX NUMBER OF SPOT-SPITTERS			
	PE Supply Hose ID			
	0.580	0.620	0.830	1.049
Operating Pressure (PSI)				
15	68	78	140	224
20	58	67	120	192
25	51	58	105	168

The number of emitters per lateral is valid for up to 250 feet with no change in slope or lateral elevation based on maximum head loss of 2.5 PSI. For each additional 50 feet of lateral length subtract 10% from the number of allowable emitters per single lateral. Flow rate should be determined by the requirements of the plant, tree or shrub being irrigated, not by the number of emitters that can be used with a given hose size.