

# Opal



## Undertree sprinklers

Sprinkler with silicone motion controller, 1/2" or 3/8" male thread and female Acme thread

- Silicone motion controller for longer radius of throw
- Various angles: 5°, 9° & 15° for wide range of applications
- Unique swivel for protecting against snails
- Optimal water stream and droplet size for high resistance to wind

**Applications:** For irrigation of orchards, nurseries, greenhouses and very low growing crops

### Main features

- Available with three different low angles:
  - 5° & 9° for very low growing crops
  - 15° for under tree irrigation with uniform distribution.
- Unique swivel design protects damage caused by snails.
- Low impact droplet and low application rate
- Recommended working pressure: 2.0 - 3.0 bar
- Flow range: 65 - 455 l/h
- High resistance to breakage, corrosion, UV radiation and fertilizers



1/2" male thread

female acme thread

3/8" male thread

### OPAL PERFORMANCE TABLE

5° and 9° low angles for low growing crops and very low canopy

Swivel	Nozzle	Color	Flow in l/h				D (m)	msh (cm)
			P (Bar)					
			1.5	2	2.5	3		
<b>Z7</b> 5° red	1.1	L. Blue	60	65	75	80	9.0-9.5	20-30
	1.2	L. Purple	70	80	90	100		
	1.3	Dk.Green	80	90	100	110		
<b>Z8</b> 9° white	1.4	L. Yellow	95	110	120	135	12.0-12.5	50-60
	1.5	Red	105	125	140	150		
<b>Z9</b> 9° blue	1.6	Grey	125	150	165	180	12.0-13.0	70-85
	1.8	White	155	180	200	220		
	2.0	Blue	190	215	245	265		

15° for undertree application such as banana irrigation and fertigation

<b>Z10</b> 15° purple	1.6	Grey	125	150	165	180	13.0-14.0	135-145
	1.8	White	155	180	200	220		
	2.0	Blue	190	215	245	265		
<b>Z10J</b> 15° light purple*	1.6	Grey	125	150	165	180	17.0-18.0	100-110
	1.8	White	155	180	200	220		
	2.0	Blue	190	215	245	265		
<b>Z11</b> 15° orange	2.2	Orange	230	265	295	325	15.0-16.0	135-145
	2.4	Purple	270	315	350	380		
	2.6	Yellow	320	370	415	455		
<b>Z10J</b> 15° light purple*	2.2	Orange	230	265	295	325	16.0-18.0	115-135
	2.4	Purple	270	315	350	380		
	2.6	Yellow	320	370	415	455		

\* Special swivel Z10J for windy conditions

\* Performance table prepared under laboratory conditions

\* For windy conditions use closer spacing

