

## Bubbler Heads

### Adjustable Full-Circle Bubbler

#### 1300A-F

Designed for tree, shrub and flower areas.

#### Operating Range

- Flow: 1.0 to 2.3 gpm (0.23 to 0.52 m<sup>3</sup>/h; 0.06 to 0.14 l/s)
- Spacing: 1 to 3 feet (0.3 to 0.9 m)
- Pressure: 10 to 60 psi (0.7 to 4.0 bar)

#### Dimensions

- 3/8 inch (15/21) female threaded inlet
- Height: 1 inch (2.5 cm)
- Top diameter: 1 inch (2.5 cm)



1300A-F

1300A-F		
Nozzle	Pressure psi	Flow gpm
F	10	1.0
	20	1.4
	30	1.7
	40	1.9
	50	2.1
	60	2.3

### Pressure Compensating Full-Circle Bubblers

#### 1400 Series

Designed for irrigating tree, shrub and flower areas where pressure compensation is required.

#### Operating Range

- Flow: 0.25 to 2.0 gpm (0.06 to 0.46 m<sup>3</sup>/h; 0.02 to 0.13 l/s)
- Spacing: 1 to 3 feet (0.3 to 0.9 m)
- Pressure: 20 to 90 psi (1.5 to 6.0 bar)

#### Dimensions

- Same as 1300A-F

#### Models and Specifications

- 1401: 0.25 gpm (0.06 m<sup>3</sup>/h; 0.02 l/s); full circle, trickle pattern
- 1402: 0.5 gpm (0.11 m<sup>3</sup>/h; 0.03 l/s); full circle, trickle pattern
- 1404: 1.0 gpm (0.23 m<sup>3</sup>/h; 0.06 l/s); full circle, umbrella pattern
- 1408: 2.0 gpm (0.46 m<sup>3</sup>/h; 0.12 l/s); full circle, umbrella pattern



1400 Series

1300A-F		METRIC	
Nozzle	Pressure bar	Radius m <sup>3</sup> /h	Flow l/m
F	0.7	0.23	3.6
	1.0	0.26	4.2
	1.5	0.30	4.8
	2.0	0.34	5.4
	2.5	0.39	6.0
	3.0	0.43	7.2
	3.5	0.48	7.8
	4.0	0.52	8.4
	4.1	0.53	8.4

### How To Specify

#### 1404

Model  
1300A-F  
1401  
1403  
1404  
1408