

# Hunter®

## Pressure Compensating Bubblers

### Small Area Irrigation

All the Precision of Drip with None of the Maintenance Hassles



Plants that require deep watering have long been stuck with irrigation products that perform at the same level of inefficiency. That all changes now, since Hunter has developed a bubbler that works under the same concept as drip irrigation. With the ability to compensate for pressure differences, the PCB (and the PCN, made specifically for attachment to pop-up spray bodies) allows the output of water to remain

constant regardless of the input pressure, resulting in a precise application previously unheard of in bubblers. Every plant, shrub or tree can receive the exact amount of water required with no excess runoff or waste. As if that was not enough, these new products provide yet another advantage over drip – simple installation means no fancy filtration, no unsightly above-ground tubes and considerably less chance of damage.



#### PCB: Precise Watering Every Time

Hunter has taken the guesswork out of using bubblers by giving you a choice of four different PCB models. With a selection that offers flow rates of either .25, .50, 1.0 or 2.0 gallons per minute, you can choose precisely the one that you need to meet each individual plant's requirements and be assured that all of your greenery will get exactly the amount of water they require.



#### PCN: Pop-up Spray Sprinkler Bubbler Nozzle

With our new pressure compensating nozzle (PCN), there is now a solution for deep watering needs that provides all the benefits of drip irrigation, with none of the hassles...plus, the decided advantage of sitting atop a riser that retracts into the ground when not in use. More appealing to look at, less likely to be tampered with – in short, a product that specifiers will love.

#### PRODUCT EXPLANATION

EXAMPLE: **PCB - 25**

MODELS	FLOW
PCB – ½" FIPT	25 – .25 GPM
PCN – Standard female nozzle thread	50 – .50 GPM
	10 – 1.0 GPM
	20 – 2.0 GPM
AFB – ½" FIPT	Adjustable Flow

#### PCB/PCN Bubbler

Model	Pressure PSI	Flow GPM
25	25	0.25
50	25	0.50
10	25	1.0
20	25	2.0

#### PCB/PCN Bubbler – Metric

Model	Pressure		Flow	
	Bars	kPa	m <sup>3</sup> /hr.	l/min
25	1.7	172	0.06	0.9
50	1.7	172	0.11	1.9
10	1.7	172	0.23	3.8
20	1.7	172	0.45	7.6



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## Micro-Spray Nozzles

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For shrubs and flower beds, sometimes the deep watering provided by bubblers or a drip irrigation system is not the type of watering that you're looking for. Until now, the only alternative was to use a standard spray head with a standard nozzle and hope for the best. Hardly the best way to go about your business. But now, with the revolutionary new Hunter Micro-Spray Nozzles, excellent coverage with an accurate distribution of water is the norm for a 4-6 foot radius. Plus, unlike regular sprays that discharge water with too much force, these

nozzles send out a finer spray that will not disturb or damage plants with which they might come in contact (when used with a 12-inch SRS pop-up, they rise well above most shrubbery and provide the maximum amount of coverage). The nozzles attach directly to an SRS spray body, so no special installations or retrofits are required. And because the Micro-Spray is a pop-up, the nozzle retracts and hides from view when not in use – eliminating safety hazards, making them vandal-proof and creating a more eye-pleasing appearance.






### A Pop-up Within a Pop-up




The unique pop-up design of the Hunter Micro-Spray Nozzle, coupled with the fact that it attaches directly to a pop-up sprinkler, makes this alternative to drip a winner – both in the ground and out. When not in use, both the nozzle and the spray head body retract, so nothing sticks up above the surface. And when it's in operation, the pop-up nozzle gives nearly an extra inch of clearance over plants and shrubs.



### Micro-Spray Nozzles

MS-Q (Quarter Circle – 90°)				MS-H (Half Circle – 180°)				MS-F (Full Circle – 360°)			
	PSI	Radius	GPM		PSI	Radius	GPM		PSI	Radius	GPM
	25	5'	0.12		25	5'	0.25		25	5'	0.50
	40	5'	0.14		40	5'	0.28		40	5'	0.56
<b>90°</b>	60	5'	0.14	<b>180°</b>	60	5'	0.29	<b>360°</b>	60	5'	0.58

### Micro-Spray Nozzles – Metric

MS-Q (Quarter Circle – 90°)					MS-H (Half Circle – 180°)					MS-F (Full Circle – 360°)				
	Pressure Bars	kPa	Radius m	Flow m³/hr l/min		Pressure Bars	kPa	Radius m	Flow m³/hr l/min		Pressure Bars	kPa	Radius m	Flow m³/hr l/min
	1.7	172	1.5	.03 .45		1.7	172	1.5	.06 .95		1.7	172	1.5	.11 1.89
	2.8	275	1.5	.03 .53		2.8	275	1.5	.06 1.06		2.8	275	1.5	.13 2.12
<b>90°</b>	4.1	413	1.5	.03 .53	<b>180°</b>	4.1	413	1.5	.07 1.10	<b>360°</b>	4.1	413	1.5	.13 2.20

### PRODUCT EXPLANATION

EXAMPLE: **MS - H**

MODEL  
MS – Micro-spray

OPTIONS  
Q – Quarter Circle – 90°  
H – Half Circle – 180°  
F – Full Circle – 360°

Available from:

