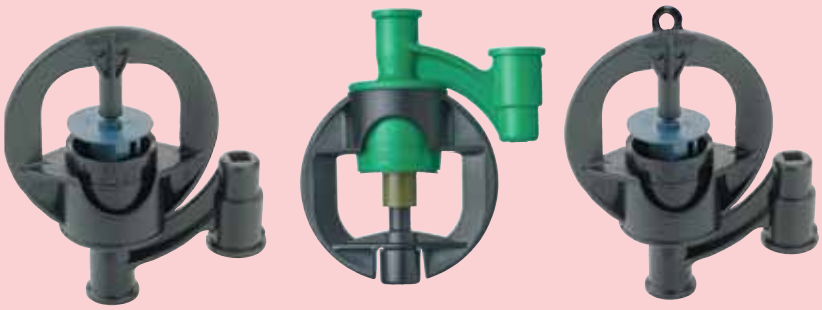
NAANDANJAIN
A JAIN IRRIGATION COMPANY

AQUAMASTER 2005

Economical solution for undertree and greenhouse and overhead irrigation



APPLICATIONS

- For widely-spaced plantations such as walnut, almond, avocado and mango
- For overhead irrigation of vegetables and nurseries
- IrriStand systems (up to 6 x 6 m spacing)

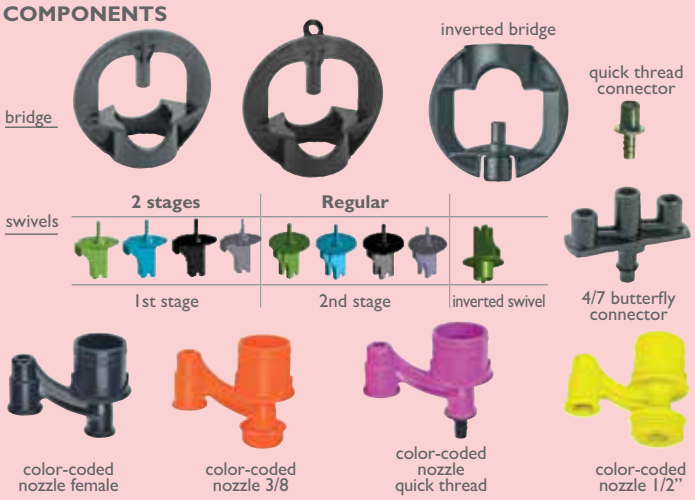
STRUCTURE AND FEATURES

- Extra-long range
- Simple, user-friendly structure
- Uniform coverage over a wide range of spacings, flow rates and pressures
- Insect-resistant nozzle
- Large droplets
- Innovative spike
- Inverted version available for tunnels and greenhouses

TECHNICAL DATA

- Recommended working pressure: 1.5-3.0 bar
- Recommended working pressure (inverted version): 2.0-3.0 bar
- Flow rate: 30-365 l/h
- Wetted diameter: 5.5-12.5
- Filtration requirements: purple and brown nozzles -130 microns
  other nozzles -200 microns

COMPONENTS



FLOW RATE (l/h) VS. PRESSURE (bar)

Nozzle Color	Nozzle Ø mm	Pressure (bar)		
		1.5	2.0	2.5
Violet	0.80	30	35	39
Brown	0.94	43	50	56
Grey	1.14	61	70	78
Turquoise	1.34	78	90	101
Green	1.40	91	105	117
Orange	1.50	104	120	134
Black	1.74	139	160	179
Blue	1.94	173	200	224
Yellow	2.16	215	250	305
Red	2.36	260	300	335

FLOW RATES AND WETTED DIAMETER (m) AT 2.0 BAR

Nozzle color	Flow rate (l/h)	Swivels - Wetted diameter (m)							
		Black		Blue		Grey		Green	
		1st stage	Regular (2nd stage)	1st stage	Regular (2nd stage)	1st stage	Regular (2nd stage)	1st stage	Regular (2nd stage)
Violet	35	2.0	5.5						
Brown	50	2.0	6.5						
Grey	70			2.5	7.0				
Turquoise	90			2.5	9.0				
Green	105			3.0	9.0				
Orange	120					2.0	5.5		9.5
Black	160					2.5	6.0	2.5-3.5	10.0
Blue	200					2.5	6.0		10.5
Yellow	250					3.0	6.0		11.5
Red	300					3.0	7.0		12.5

* Tested under laboratory conditions at 0.25m height.
* 2 stages Green swivel only for 120-200 lph.

PERFORMANCE TABLE FOR IRRISTAND APPLICATION

Swivel Color	Nozzle Color	Flow Rate (l/h)	D (m)	Precipitation rate (mm/h) Spacing (m) 3x3	4x4	5x5	6x6
Blue	Grey	70	7.0	7.8	4.4		
	Turquoise	90	9.0	10	5.6		
	Green	105	9.0	11.6	6.5		
Green	Orange	120	9.5	13.3	7.5	4.8	3.3
	Black	160	10.0	17.8	10	6.4	4.5
	Blue	200	10.5	22.3	12.6	8	5.6
	Yellow	250	11.5	27.8	15.7	10	7
	Red	300	12.5	32.9	18.5	11.8	8.2

*Tested under laboratory conditions at 0.6 m height and 2.0 bar

INVERTED MODEL - FLOW RATES AND WETTED DIAMETERS AT PRESSURE 2.0 BAR

Swivel color	Nozzle color	Flow rate (l/h)	D (m)
Green inverted	Violet	35	6.5
	Brown	50	7.5
	Grey	70	9.0
	Turquoise	90	10.0
	Green	105	10.0
	Orange	120	10.5
	Black	160	11.0
	Blue	200	11.5

*Tested under laboratory conditions at 1.8 m height

PERFORMANCE TABLE FOR INVERTED APPLICATION

Nozzle color	Flow rate (l/h)	Precipitation rate (mm/h) Spacing (m) 3x3	4x4	4x6	5x5
Grey	70	7.7	4.4	2.9	2.8
Turquoise	90	10	5.6	3.8	3.6
Green	105	11.7	6.6	4.4	4.2
Orange	120	14.0	7.9	5.3	5.1
Black	160	17.5	9.9	6.6	6.3

*Tested under laboratory conditions at 1.8 m height and 2.0 bar

Color code distribution uniformity	CU>92%	CU=89-92%	CU=85-88%	CU<85%

HEAD LOSS (m) 1.0m Tube Length

Nozzle color	Flow rate (l/h)	3/8" thread, 1/2" thread & female connections			Quick thread connection
		4/7 PVC tube	5/8 PE tube	7/10 PVC tube	4/7 PES tube
Violet	35	0.8	0		0.9
Brown	50	1.2	0.1		1.1
Grey	70	1.3	0.5		1.7
Turquoise	90	1.5	0.7		2.6
Green	105	1.7	0.9		3.7
Orange	120	2.6	1.4		4.5
Black	160	4.6	2.4		
Blue	200			1.2	
Yellow	250			1.3	
Red	300			1.6	