

700 Series Minisprinkler

Dynamic Mini Sprinkler for Greenhouses and Nurseries



Excellent Performance with Uniform Water Distribution

DIG's 700 series insect-proof, dynamic mini sprinkler offers excellent distribution uniformity for irrigation of seedlings, mature trees, and under orchard canopies. The sprinkler is available with seven, color-coded flow rate bases and varying configurations to fit a wide range of applications.

Features

- Excellent performance with uniform water distribution
- Press-fit configuration for easy maintenance
- Head closes downwards after operation, preventing dirt and insects from entering the mini sprinkler (insect-proof)
- Firm construction without a bridge gives a complete 360° circle
- Made of high-impact plastic material to withstand chemicals and all weather conditions
- Features dynamic, self-cleaning, vibrating operation that prevents accumulation of deposits, making it suitable for irrigation with water containing iron and calcium
- Available on 1/2", 10-32 thread or completely assembled with 13" spike, 24" or 36" (.160"ID x .270" OD) micro tubing and barb
- Can operate in an inverted position to reduce wetting diameter for young trees

Applications

- Suits all applications of seedling and young sapling irrigation
- Good for under tree canopies
- Ideal for orchards, greenhouses and nurseries

Benefits

- Low precipitation rate for any soil structure
- Can be used for frost protection and cooling



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Performance and Technical Data

- Flow rates: 10-42 GPH (40 l/h - 160 l/h)
- Diameter of coverage: 6' - 17' (1.8 m - 5.1 m)
- Operating pressure: 25 - 35 PSI (1.7 - 2.4 Bar)
- Operating pressure in overlapping irrigation:
- 35 PSI (2.4 BAR)
- Pattern: 360°
- Trajectory angle: Approximately 8° to 10°
- Filtration requirements: 80 to 120 mesh depending on flow rates and water quality
- Material: polyacetal



How to specify

Model	Description
52-700-xx-0	Mini sprinkler on 1/2" FNPT base
52-700-xx-24	Mini sprinkler assembly with 24" micro tubing, .270 OD barb and weight
52-700-xx-36	Mini sprinkler assembly with 36" micro tubing, .270 OD barb and weight

Accessories

The 700 series mini sprinkler has a range of accessories for complete assembly that includes 1/2" bases, micro tubing assemblies and stakes



Flow rate & diameter

Model	52-700-10	52-700-15	52-700-18	52-700-24	52-700-27	52-700-32	52-700-42
Nozzle color	Silver	Gray	Black	Green	Dk. blue	Red	Brown
Nozzle size (in)	.035	.043	.047	.051	.055	.059	.071
Nominal flow rate at 29.4 PSI (2 BAR)							
Flow rates (GPH)	10	15	18	24	27	32	42
Wetting diameter (ft)	10	11	13	14	15	16	17

Performance & technical data reverted at 6' (1.8 m) height

Nozzle color	Silver	Gray	Black	Green	Dk. blue	Red	Brown
Performance at 25 PSI (1.7 BAR)							
Flow rates (GPH)	9.9	14.9	17.4	22.3	26.0	29.7	39.7
Wetting diameter (ft)	6	10	11	12	13	14	15
Performance at 30 PSI (2.1 BAR)							
Flow rates (GPH)	10.9	16.3	19.0	24.4	28.5	32.6	43.4
Wetting diameter (ft)	7	11	12	14	16	15	16
Performance at 35 PSI (2.4 BAR)							
Flow rates (GPH)	11.7	17.6	20.5	26.4	30.8	35.2	46.9
Wetting diameter (ft)	10	11	13	14	15	16	17
Rectangular spacing (ft x ft)	6 x 4	7 x 6	7 x 6	8 x 6	8 x 6	10 x 6	10 x 6
Application rate (in/h)	0.78	0.62	0.78	0.88	1.02	0.94	1.25

How to specify

Model	Description
52-882-0	1/2" FPT threaded base 700 female
50-550-0	Press-fit adapter with barb
50-430-0	Press fit stake, 13"
52-156-0	1/2" MPT threaded base 700 female
50-156-xx	24" and 36" (60 cm and 90 cm) micro tubing with .160 IDx .270 OD, barb and adapter to fit mini sprinklers and compact micro sprinklers