

Series 8XX

Insect protected "Bridge" Mini Sprinklers



A series of high performance "single-bridge" mini sprinklers with a robust design and a nozzle protection swivel which shuts off after operation to prevent insects and dirt from entering the water passages and disturbing regular irrigation. The variety of models and flow rates and the uniform distribution covers a wide range of applications.

The 8XX series includes the following models:

Model 831 Large wetting diameter

Model 841 Large/Medium wetting diameter

Model 850 Part circle - This unique product covers a sector of 200°. Adding a deflector enables to reduce the sector and irrigate 180°

Features

- ✓ Robust bridge design for harsh field conditions
- ✓ Anti-insect design - Swivel seals the nozzle once the water is shut off
- ✓ Uniform distribution in wide range of flow rates
- ✓ Special engineering raw materials for long life and durability
- ✓ Large drops for added wind resistance
- ✓ Special bridge design prevents dripping
- ✓ **8XX series can be supplied as PC (pressure compensated) emitter**
- ✓ **Energy & Water Saving** - Emitters can operate at low pressure of 1bar (14.5psi) and flow rates as low as 14lph (0.06gpm). Please consult TAVLIT

Technical Specifications

- ✓ Wide range of nozzles to meet all applications 14-240 liters per hour (0.06-1.06gpm)
- ✓ **Nominal Flow Rate:** 2.0bar (29psi)
- ✓ **Optimal Operating Pressure Range:** 1.0-2.5bar (14.5-36.0psi)
- ✓ **Wetting Diameter:** 5.5-10.4m (18-33ft)
- ✓ **Recommended Filtration:**
 - 100 mesh for flow rates up to 40 lph (0.18gpm)
 - 80 mesh for flows up to 90 lph (0.39gpm)
 - 60 mesh for flows up to 240 lph (1.06gpm)

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Max. Wetting D at 2bar (29psi)

Nozzle Diameter		Nozzle Color	Flow Rate		831		841		850	
mm	inch		lph	gpm	m	ft	m	ft	m	ft
0.8*	0.035	○	14	0.06	2.5	8.2				
0.8*	0.035	○	16	0.07			4.1	13.5		
0.8*	0.035	○	18	0.08			3.9	12.8		
1.0*	0.043	○	21	0.09	4.0	13.1				
0.8*	0.035	○	25	0.11	5.5	18				
0.8	0.035	●	35	0.15	5.7	19	4.9	16		
0.9	0.039	●	40	0.18	6.1	20	5.3	17		
1.0	0.043	●	50	0.22	6.8	22	6.0	20	3.0	10
1.1	0.047	●	60	0.26	6.9	23	6.1	20		
1.2	0.050	●	70	0.31	8.0	26	6.8	22	3.5	11
1.3	0.055	●	90	0.39	8.0	26	6.9	23	3.5	11
1.4	0.058	●	105	0.46	8.5	28	7.1	23		
1.5	0.066	●	120	0.53	8.9	29	7.9	26		
1.7	0.070	●	140	0.62	9.8	32	7.9	26		
1.8	0.071	●	160	0.70	10.0	33	8.0	26		
2.0	0.078	●	200	0.88	10.2	33				
2.2	0.086	●	240	1.06	10.4	34				

* with NFR



Model 831

Insect protected, Large Wetting Diameter

Applications

- ✓ The product is designed for irrigation of mature trees with large root zone
- ✓ Due to the high uniformity and large diameter, the emitter can be installed between two trees
- ✓ Product can be used for low precipitation rate and high uniformity overlapping irrigation in greenhouses, flower beds and vegetables
- ✓ Can be used for frost protection and cooling systems
- ✓ Applicable for Parks and home gardens

Technical Specifications

- ✓ Wide range of nozzles to meet all applications 16-240 liters per hour (0.07-1.06gpm)
- ✓ **Nominal Flow Rate** at 2.0bar (29psi)
- ✓ **Optimal Operating Pressure Range:** 1.0-2.5bar (14.5-36.0psi)
- ✓ **Insect protected:** nozzle shuts off after operation
- ✓ Single jet swivel. Strong propulsion which increases whenever disturbed by any obstacle:
Operates smoothly even in harsh conditions
- ✓ **Large Wetting Diameter:** 5.5-10.4m (18-33ft)
- ✓ Recommended overlapping spacing in wind protected areas
Upright position:
Rectangular spacing up to 6 x 6m (20 x 20ft)
One row of emitters up to 6.0m (20ft) hot house width
Two rows of emitters up to 12m (39ft) hot house width
- ✓ **831 series can be supplied as PC (pressure compensated) emitter**
- ✓ **Energy & Water Saving:** Series 831 can operate at low pressure of 1bar (14.5psi) and flow rates as low as 16lph (0.07gpm). Please consult TAVLIT.



Model 841

Insect protected, Medium/Large Wetting Diameter

Applications

- ✓ The product is designed for irrigation of Orchards, Avocado, Mango Kiwi etc.
- ✓ Product can be used in systems where working pressure is low or regular
- ✓ Applicable for parks and home gardens

Technical Specifications

- ✓ Wide range of nozzles to meet all applications 14-240 liters per hour (0.06-1.06gpm)
- ✓ **Nominal Flow Rate** at 2.0bar (29psi)
- ✓ **Optimal Operating Pressure Range:** 1.0-2.5bar (14.5-36.0psi)
- ✓ Insect protected - nozzle shuts off after operation
- ✓ Single jet swivel. Strong propulsion which increases whenever disturbed by any obstacle- operates smoothly even in harsh conditions
- ✓ **Large/Medium Wetting Diameter:** 4.9-8.0m (16-26ft)
- ✓ Recommended overlapping spacing in wind protected areas:
 - Upright position -
 - Rectangular spacing up to 5X5m (16 x 16ft)
 - One row of emitters, up to 6.0m (20ft) hot house width
 - Two rows of emitters, up to 12m (39ft) hot house width
- ✓ **841 series can be supplied as PC (pressure compensated) emitter**
- ✓ **Energy & Water Saving:** Series 841 can operate at low pressure of 1bar (14.5psi) and flow rates as low as 14lph (0.06gpm). Please consult TAVLIT



Model 850

Part Circle Dynamic Mini Sprinkler

Applications

- ✓ Landscape and home gardens
- ✓ Irrigation at the edge of a field in order to prevent water runoff
- ✓ Trees - on both sides of the tree to avoid wetting of the trunk
- ✓ Strip irrigation, by setting the mini sprinklers in overlapping position, on both sides of the strip

Special Features

- ✓ The 850 model is a dynamic mini sprinkler that irrigates uniformly a part circle area with fine drops without creating mist
- ✓ Standard operation - 200° part circle
- ✓ With deflector (Model 850D) the irrigated circle can be reduced to 180°.
This device can be added and removed easily

Technical Specifications

- ✓ Product can be supplied with 50, 70, 90 lph, (0.26, 0.39, 0.46gpm), nozzle
- ✓ **Nominal Flow Rate:** at 2.0bar (29psi)
- ✓ **Optimal Operating Pressure Range:** 1.4-2.0bar (20-29psi)
- ✓ **Wetting Radius:** 3.0-3.5m (10-11ft)
- ✓ Insect protected - nozzle shuts off after operation