

## 800-801 "Bridge Design" Mini Sprinklers

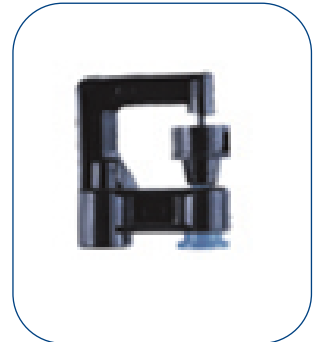
The 800-801 "Bridge Design" Mini Sprinklers with large wetting diameter are designed for irrigation of mature trees with large root zone.

### Applications:

- Due to the high uniformity and large diameter, the emitter can be installed between two trees.
- Full coverage irrigation in greenhouses, flower beds and vegetables.
- Products can be used for frost protection and cooling systems

### Features:

- Robust bridge design for harsh field conditions.
- Uniform distribution in wide range of flow rates.
- Fine droplets without mist.
- Special engineering raw materials for long life and durability



## Technical Specifications:

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- Wide range of nozzles to meet all applications:
  - 20-240 liters per hour (0.088-1.06 gpm).
- Nominal Flow rate at 2.0 bar (29 psi).
- Recommended working pressure range:
  - 1.4-2.5 bar (20-36 psi).
- Large wetting diameter: 5.3-10.5 m (17-34 Ft).
- Trunk Protector can be added in order to avoid wetting of the tree trunk.
- Recommended Filtration\*:
  - 100 mesh for flow rates up to 40 lph (0.176 gpm).
  - 80 mesh for flows up to 90 lph (0.396 gpm).
  - 60 mesh for flows up to 240 lph (1.06 gpm.)

\* TAVLIT manufactures a range of plastic filters.

**Model 800:**

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- Optimal operation pressure 2bar (29 psi).

**Model 801:**

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- Optimal operation pressure:
  - 1.4 bar (29 psi) for single emitter irrigation.
  - 2.0 bar (29 psi) for overlapping irrigation at spacing up to 5X5 m (16X16 Ft).

**801 Overlapping charts:**

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Metric Units:

Nozzle Diameter	Flow Rate	Wetting Diameter	Precipitation Rate (mm/hr)			
			Spacing (mXm)			
mm	lph	m	2X2	3X3	4X4	5X5
0.8	35	5.7	8.75	3.89	2.19	1.40
0.9	40	6.0	10.00	4.44	2.50	1.60
1	50	6.3	12.50	5.56	3.13	2.00
1.1	60	6.7	15.00	6.67	3.75	2.40
1.2	70	7.5	17.50	7.78	4.38	2.80
1.3	90	7.8	22.50	10.00	5.63	3.60
1.4	105	8.0	26.00	11.67	6.56	4.20
1.5	120	8.1	30.00	13.33	7.50	4.80
1.7	140	8.8	35.00	15.56	8.75	5.60
1.8	160	8.9	40.00	17.78	10.00	6.40
2	200	10.0	50.00	22.22	12.50	8.00
2.2	240	10.5	60.00	26.67	15.00	9.60

U.S. Units:

Nozzle Diameter	Flow Rate	Wetting Diameter	Precipitation Rate (inch/hr)			
			Spacing (FtXft)			
inch	gpm	Ft	7X7	10X10	13X13	16X16
0.035	0.154	19	0.34	0.15	0.09	0.06
0.039	0.176	20	0.39	0.17	0.10	0.06
0.043	0.220	21	0.49	0.22	0.12	0.08
0.047	0.264	22	0.59	0.26	0.15	0.09
0.050	0.308	25	0.69	0.31	0.17	0.11
0.055	0.396	26	0.89	0.39	0.22	0.14
0.058	0.462	26	1.02	0.46	0.26	0.17
0.066	0.528	27	1.18	0.52	0.30	0.19
0.070	0.616	29	1.38	0.61	0.34	0.22
0.071	0.704	29	1.57	0.70	0.39	0.25
0.078	0.880	33	1.97	0.87	0.49	0.31
0.086	1.056	34	2.36	1.05	0.59	0.38

- Nominal flow rate and max wetting diameter at 2 bar (29 psi).
- The above spacing is recommended for overlapping irrigation with high CU.
- Above 90% up to 5X5 m (16X16 Ft), depends on the flow rate.

\*For more information please refer to the technical software.