

Ein-Dor Emitters, Sprinklers & Sprayers



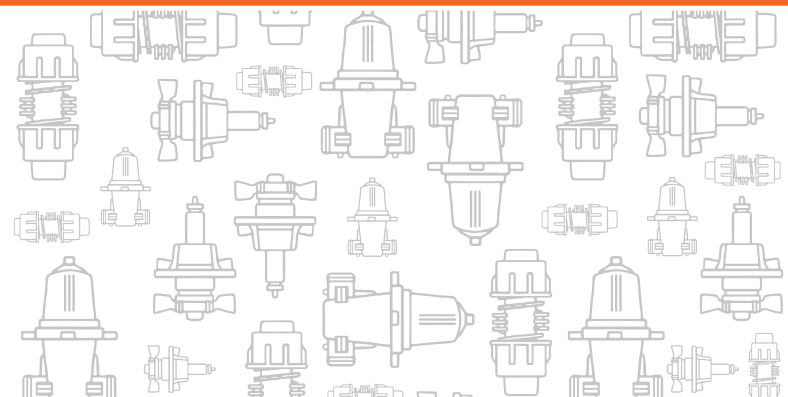
**Agriculture &
Gardening**



**Water
Conduction**



**Industry &
Infrastructures**





Plas-Fit is a company that always thinks outside the box, loves challenges, humble and determined, with a deep history and extensive knowledge of plastics. The story of Plassim Fittings begins in 1960 in Kibbutz Merhaviah, where the company was founded, produced pipes for agriculture and gradually developed into the field of fittings. This combined experience brings many decades of expertise in agriculture and a real connection to the field.

The story of Friedrich Molds begins with Mr. Israel Friedrich, one of the pioneers and founders of the plastics industry in Israel, which founded the company (Friedrich molds) in 1978, dealing in plastics and plastic molds. The joined forces of Friedrich molds and Plassim Fittings created Plas-Fit, an innovative and breaking through company that combines in-depth knowledge of more than 40 years in plastics, together with 60 years of deep knowledge of irrigation and communication solutions.

Tavlit was founded in 1971 by the Nahmias family and combines a tradition of quality, service, personal commitment and responsibility with the aspiration to combine new technologies, innovation and new products development in order to better serve our customers.

For over 50 years Tavlit has been supplying high-quality and innovative products to leading irrigation companies and international companies operating in the water industry and to "DIY" store chains in over 75 countries.

As of 2022, Plas-Fit and Tavlit have merged to one company and together we offer a wide variety of quality products that include:

- High-quality, innovative and patent-protected filters; Manual filters, mesh and semi-automatic disc filters and automatic disc filters
- A wide variety of pipe fittings and connectors for the fields of agriculture, gardening, infrastructures and Telecommunications
- A complete range of sprinklers, foggers and micro sprinklers.

The merged company has over 120 years of professional knowledge in plastics, irrigation and agriculture as well as development and design of products for the water industry and familiarity and a deep connection to the field. We believe it's important to do what we love and love what we do and so we carefully select our employees in order to create an innovative, breaking through company, that is connected to its customers and colleagues, a company that is fun to work in and fun to work with.

We believe in innovation as a way of life and believe that a true connection to our customers and to the field creates innovative, reliable, fast and easy to install products. As a central part of our core values and with deep understanding that each customer is a whole world with different needs, we provide flexible and personal service that derives from a sense of mission.

We are here to develop the next product that will give you peace of mind and confidence and to create simple and fast solutions that will make your work more efficient. We believe you deserve to work in a high quality, simple and carefree way because we know that time is your most valuable resource.

We are connected to your success!

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For the past 40 years Ein-Dor products have been in the forefront of technology and innovation when it comes to micro irrigation. Following the 2009 purchase of Ein-dor/Agridor, Tavlit now supplies a wide range of sprinklers, micro-sprinklers, sprayers and foggers including low pressure/flow rate emitters of the highest quality.

These emitters complement well the time-proven line of TAVLIT classic products of Water and irrigation, and allow us to enhance our value offer to our customers.

All of TAVLIT emitters are known for their excellent performance, accuracy and uniform water distribution and can be supplied in a wide range of flow rates and wetting diameters in order to cover customers' requirements with regards to the following:

- ✓ Irrigation of young and mature trees, orchards, citrus groves, banana plantations, avocado, stone fruits etc.
- ✓ Overlapping irrigation of vegetables such as potatoes, onion, leaves and other vegetables that require uniform distribution and low precipitation rate
- ✓ Seedling and germination
- ✓ Irrigation and misting in hot-houses and nurseries
- ✓ Irrigation of home gardens and parks
- ✓ Frost protection and cooling systems
- ✓ Climate control

The wide selection of solutions offered by TAVLIT emitters' flow rates and wetting diameters enable the users to save water and energy by covering the needed area evenly and without wasting water.

TAVLIT's years of experience in manufacturing and development, backed by our highly capable in-house mold workshop enables us to constantly update our product line and respond quickly and efficiently to our customers' requirements. As a quality brand TAVLIT is an ISO 9001:2008 certified for total quality management.

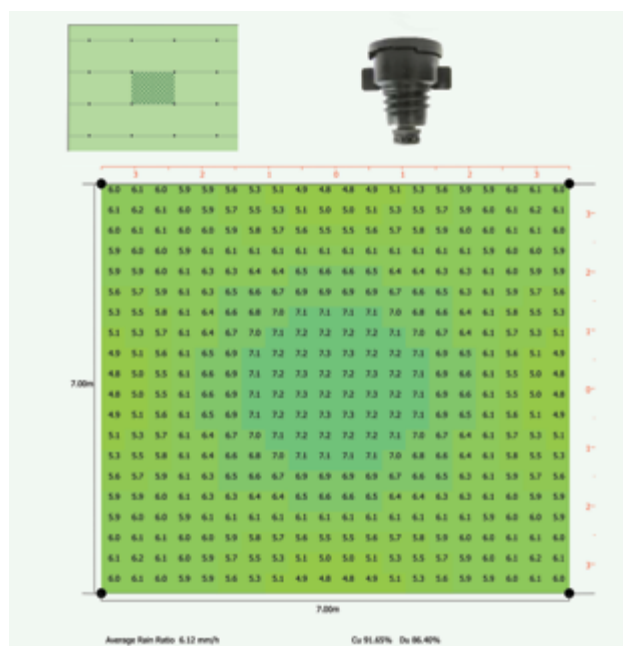


Energy & Water Saving:
Very low flow rates and
low pressure emitters

Computerized Support system

TAVLIT offers its customers an advanced Computerized Support System containing technical specifications and performance data of all emitters, including complete testing information, distribution profiles and overlapping evaluations. The program also incorporates basic irrigation system design and utility calculations which assist in selecting the suitable emitter for any specific project. The software is constantly updated on line. Please refer to our web site (www.tavlit.co.il)

Excerpt from the Software



Download link for the
Emitters software



TAVLIT Emitters and Sprayers are guaranteed to be free from defect in material and/or workmanship and to perform as advertised when properly installed, used and maintained in accordance with current instructions, written or verbal.

Should any item prove defective within the time period set forth for the item(s), but in any case not later than within 12 months of that product having left TAVLIT's premises, and subject to receipt by TAVLIT or its authorized representative, of written notice thereof from the purchaser within 30 days of discovery of such defect or failure - TAVLIT will repair or replace or refund the purchase price, at its sole option, any items proven defective in workmanship or material.

For full details please refer to our International warranty document, available upon request.

Caution

Data is based on tests carried out under laboratory conditions. Some deviation should be allowed under field conditions.

Constant Improvements in TAVLIT products can alter specifications without prior notice and without incurring liability.

Operating Pressure should be considered according to the features of each emitter. Incorrect water pressure interrupts the water distribution uniformity and may cause excessive wear and damage to the emitter. Please consult TAVLIT for operation in very high or very low pressure range.

Chemicals used in irrigation require adequate flushing with clean water immediately after use.

Flushing must be carried out long enough to thoroughly clean the emitters and accessories from any chemicals residue. The use of too high a chemical concentration or the use of prohibited chemicals which attack the plastic product will not be covered under guarantee.

Series 86X

Mini Compact No Bridge Mini Sprinklers



These emitters are the most advanced and time proven mini sprinklers with unique patented mechanism, firm construction without a bridge for uniform distribution and excellent performance even in difficult conditions.

The 86X series includes the following models:

- Model 861** Large wetting diameter. Can also be used in inverted position
- Model 862** Medium wetting diameter. Optional RJC - removable jet converter to reduce the wetting diameter for young plants/trees
- Model 863** Small wetting diameter with low flow rates, from 20L/h (0.09gpm) and large droplets. Optional RJC - removable jet converter to reduce the wetting diameter for young plants/trees
- Model 866** Flat angle with Large wetting diameter for inverted position

Features

- ✓ Unique patented mechanism with strong propulsion-Smooth operation even in harsh conditions
- ✓ Firm construction without a bridge-Uniform water distribution
- ✓ Anti-insect design - swivel seals the nozzle once the water is shut off
- ✓ Integral nozzle filter - Protects the nozzle from debris in the water
- ✓ Special engineering raw materials for long life and durability
- ✓ Large drops for added wind resistance.
- ✓ Special design prevents sprays and water runoff
- ✓ **86X series can be supplied as pressure compensated emitters**
- ✓ **Energy & water saving: Emitters can operate at low pressure of 1bar (14.5psi) and low flow rates**

Technical Specifications

- ✓ Wide range of nozzles to meet all applications 20-160liters per hour (0.09-0.70gpm)
- ✓ **Nominal Flow Rate:** at 2.0bar (29psi)
- ✓ **Optimal Operating Pressure Range:** 1.0-2.2bar (14.5-32.0psi)
- ✓ **Working Pressure Maximum Range:** 1-3bar (14.5-43.5psi)
- ✓ **Optimal Working Pressure Range:** 1.0-2.2bar (14.5-32.0psi)
- ✓ **Wetting Diameter:** 5.5-9.0m (18-30ft)
- ✓ **Recommended Filtration:**
 - 100 mesh for flow rates up to 40lph (0.17gpm)
 - 80 mesh for flows up to 90lph (0.39gpm)
 - 60 mesh for flows up to 160lph (0.07gpm)

Series 86X

Mini Compact No Bridge Mini Sprinklers

86X Wetting Diameter at 2.0bars (29psi)

Nozzle Diameter		Nozzle Color	Flow Rate		861		862		863		866	
mm	inch		lph	gpm	m	ft	m	ft	m	ft	m	ft
0.9*	0.031*	●	20	0.09					3.8	12		
0.8	0.035	●	35	0.15	5.5	18	3.8	12			5.5	18
0.9	0.039	●	40	0.18	5.5	18	4.6	15	4.6	15	5.5	18
1.0	0.043	●	50	0.22	6.3	21	5.5	18			6.3	21
1.2*	0.050*	●	50	0.22					5.0	18		
1.1	0.047	●	60	0.26	6.9	23	5.7	19			6.9	23
1.2	0.050	●	70	0.31	7.0	23	6.0	20			7.0	23
1.3	0.055	●	90	0.39	7.0	23	6.5	21			7.0	23
1.4	0.058	●	105	0.46	7.5	25	6.5	21			7.5	25
1.5	0.066	●	120	0.53	8.1	27	6.5	21			8.1	27
1.7	0.070	●	140	0.62	8.5	28	7.0	23			8.5	28
1.8	0.071	●	160	0.70	9.0	30	7.2	24			9.0	30

*with NFR



Model 861

Large Wetting Diameter

Applications

- ✓ The product is designed for irrigation of mature trees with large root zone
- ✓ Product can be used for low precipitation rate and high uniformity overlapping irrigation in greenhouses
- ✓ Product can be used for upside down irrigation in greenhouses and nurseries in places where a lower angle of throw is required
- ✓ Applicable for landscape, cooling and frost protection systems

Technical Specifications

- ✓ **Wide range of nozzles to meet all applications:** 35-160liters per hour (0.15-0.70gpm)
- ✓ **Nominal Flow Rate:** at 2.0bar (29psi)
- ✓ **Working Pressure Maximum Range:** 1-3bar (14.5-43.5psi)
- ✓ **Optimal Working Pressure Range:** 1.4-2.2bar (20-32psi)
- ✓ **Large Wetting Diameter:** 5.5-9.0m (18-30ft)
- ✓ **Recommended Overlapping Spacing In Wind Protected Areas:**
 - Upright position up to 6 x 6m (20 x 20ft)
 - Inverted: Rectangular overlapping 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
- ✓ **861 series can be supplied as PC (pressure compensated) emitter**



862 Mini Compact Small / Medium Wetting Diameter

Applications

- ✓ The product is designed for irrigation of young or mature trees with medium or small root zone
- ✓ Product can be used for low precipitation rate and high uniformity overlapping irrigation in greenhouses
- ✓ Applicable for landscape and home gardening

Special Features

- ✓ The 862 mini-sprinkler can be supplied with **RJC** (Removable Jet Converter) - a device that converts the water jet into large droplets spread evenly on a small diameter and is intended for irrigation of young plantations
- ✓ This RJC can be removed easily once the tree grows and a larger wetting diameter is required

Technical Specifications

- ✓ **Wide range of nozzles to meet all applications:** 35-160liters per hour (0.15-0.70gpm)
- ✓ **Nominal Flow rate:** at 2.0bar (29psi)
- ✓ **Working pressure maximum range:** 0.8-2.5bar (11.5-36.5psi)
- ✓ **Optimal pressure range:** 1.0-2.0bar (14.5-29.0psi)
- ✓ **Large/Medium wetting diameter:** 3.8-7.2m (12-24ft)
- ✓ **Recommended overlapping spacing:** up to 4 x 4m (13 x 13ft) in wind protected areas
- ✓ 862 series can be supplied as **PC** (pressure compensated) model



863 Mini Compact Small Wetting Diameter

Applications

- ✓ The product is designed for irrigation of young or mature trees with small root zone
- ✓ Applicable for landscape and home gardening

Special Features

- ✓ The product combines very low flow rates, from 20L/h (0.09gpm) with relatively large droplets.
- ✓ The 863 mini-sprinkler can be supplied with RJC (Removable Jet Converter), a device that converts the water jet into large droplets spread evenly on a small diameter and is intended for irrigation of young plantation
This device can be removed easily once the tree grows and a larger wetting diameter is required.
- ✓ Product nozzle is equipped with NFR (nozzle flow reducer), enabling low flow with a relatively large nozzle that prevents clogging

Technical Specifications

- ✓ Product can be supplied with 20, 40, 50 lph, (0.09, 0.18, 0.26gpm), nozzle
- ✓ Nominal Flow Rate: at 2.0bar (29psi)
- ✓ Working Pressure Maximum Range: 1.5-3.0bar (22-43psi)
- ✓ Medium Wetting Diameter: 3.8m (12ft)
- ✓ 863 series can be supplied as PC (pressure compensated) model



866 Mini Compact Large Wetting Diameter for Inverted Position

Applications

- ✓ The product is designed for overlapping irrigation at upside down position
- ✓ The product combines low precipitation rate and high uniformity overlapping irrigation
- ✓ Product can be used in greenhouses, and nurseries for germination and seedling
- ✓ Product can be used for cooling and micro climate systems in chicken coops, animal houses and greenhouses
- ✓ The use of the NDV is highly recommended in order to keep the laterals full of water, preventing dripping from the emitters and saving water

Technical Specifications

- ✓ **Wide range of nozzles to meet all applications:** 35-160 liters per hour (0.15-0.70gpm)
- ✓ **Nominal Flow Rate:** 2.0bar (29psi)
- ✓ **Working Pressure Maximum Range:** 1-3bar (14.5-43.5)
- ✓ **Optimal Working Pressure Range:** 2.0-2.2bar (29-32psi)
- ✓ **Large Wetting Diameter** up to 9.0m (30ft)
- ✓ **Recommended Overlapping Spacing, Inverted:**
 - Rectangular up to 6 x 6m (20 x 20ft)
 - Single row up to 6.5m (21ft) hothouse width
 - Two rows up to 12m (39ft) hothouse width



The newest line by TAVLIT combines our well known high performance mini sprinklers into a flow regulation solution which is easy to use and maintain, yet economical and efficient. The highly reliable solution is based on a new set of nozzles available for 861 and 863 series and for 831 series of mini sprinklers, using a classic silicon rubber design with wide water passages.

Features

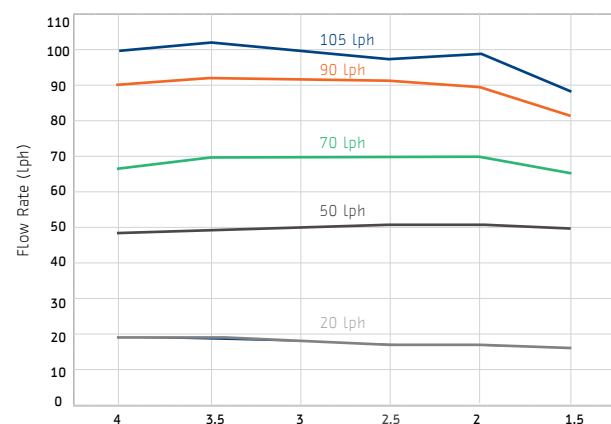
- ✓ Very economic, high performance emitters
- ✓ Uniform flow rates regardless the inlet pressure
- ✓ Wide water passages to prevent clogging
- ✓ Easy disassembly for maintenance

Technical Specifications

- ✓ Wide range of nozzles to meet all applications
- ✓ **Flow regulating range:** 1.5- 4bar (21-58psi)
- ✓ **Available flow rates:**
20, 35, 50, 70, 90, 105lph
(0.09, 0.15, 0.22, 0.31, 0.39, 0.46gpm)
Additional flow rates are under development
- ✓ **Connections:**
 $\frac{3}{8}$ "F x $\frac{4}{7}$ barb adaptor
 $\frac{3}{8}$ "F x $\frac{1}{2}$ "F coupler

Wetting Diameter

Nozzle Diam.		Nozzle Color	Flow Rate		831PC		863PC		861PC	
mm	inch		L/h	gpm	m	ft	m	ft	m	ft
0.8	0.035	●	20	0.09	4.3	14.0	2.3	7.6	3.0	10.0
1.0	0.043	●	35	0.15	6.6	22.0	4.6	15.0	5.0	16.5
1.2	0.050	●	50	0.22	7.4	24.5	5.6	18.5	6.3	21.0
1.3	0.055	●	70	0.31	8.8	29.0	5.9	19.5	6.7	22.0
1.4	0.058	●	90	0.39	8.8	29.0	6.0	20.0		
1.5	0.066	●	105	0.46	9.0	29.7	6.3	21.0		





Flow regulated emitters keep the flow constant regardless changes in the inlet pressure.

Applications

- ✓ Used in irrigation systems installed in slopes and difficult topographic conditions in order to guarantee the right flow in each emitter
- ✓ In irrigation systems where the pressure fluctuate
- ✓ In systems with longer laterals or smaller diameter pipes
- ✓ The 560 flow regulator is a modular flow regulator that can be connected to any TAVLIT emitter
- ✓ Flow rate is determined by the flow regulated and the following chart explains clearly the right combinations
- ✓ For additional combinations please consult TAVLIT customer service

Features

- ✓ Can be connected to a wide range of emitters.
- ✓ Uniform flow rates regardless the inlet pressure
- ✓ Large water passage
- ✓ Includes an integral filter
- ✓ Easy maintenance; debris can be flushed away with water jet from the other

Technical Specifications

- ✓ **Flow regulation range:** 1.5 - 4bar (21-58psi)
- ✓ **Available flow rates:** 20, 25, 32, 50
- ✓ Model 560F - for models 861, 862 and sprayer heads models 44XX
- ✓ Model 560M - For models 831, 841

Flow Regulator	560-020			560-025			560-040			560-050		
Flow Rate	20 lph (0.09gpm)			25 lph (0.11gpm)			40 lph (0.18gpm)			50 lph (0.22gpm)		
Emitter connected to the flow regulator	Model	Wetting Diam.		Model	Wetting Diam.		Model	Wetting Diam.		Model	Wetting Diam.	
		m	ft		m	ft		m	ft		m	ft
861	861-035	4.5	14.8	861-040	5.4	17.7	861-060	5.5	18.0	861-070	6.2	20.3
862	862-035	3.7	12.0	862-040	3.9	12.8	862-060	4.7	15.4	862-070	5.1	16.7
831	831-035	4.1	13.5	831-040	5.5	18.0	831-060	6.1	20.0	831-070	7.5	24.6
841	841-035	4.0	13.0	841-040	5.0	16.4	841-060	5.3	17.4	841-070	6.5	21.3
4460				4560-020	3.2	10.5	4560-040	3.2	10.5	4560-040	3.5	11.5
4461				4561-020	3.2	10.5	4561-040	3.2	10.5	4561-040	3.5	11.5
4462	4562-020	2.4	7.8	4562-020	3.5	11.5	4562-040	3.5	11.5	4562-040	3.5	11.5
4463	4562-020	0.7	2.3	4562-020	0.9	2.9	4562-040	0.9	2.9	4562-040	0.9	2.9

The 45XX is special model of the 44XX suited to the flow regulator.



The 530 NDV is a water pressure valve that opens only when the water opens and pressure reaches the preset pressure and closes when the water is closed and pressure drops.

Applications

- ✓ Prevents drainage of the pipes and dripping from the emitters when opening and closing the water system
- ✓ Used in hot houses and nurseries irrigation, misting and seedlings and rooting
- ✓ When the area is sloped the NDV prevents overflowing from the emitters in the lower end of the field when closing the water
- ✓ Chicken coops and animal houses cooling systems
- ✓ Used in pulse irrigation systems
- ✓ The NDV guarantees that the water pipes are kept full and therefore water is not wasted and cycles can be shorter

Features

- ✓ Wide water passage, low head loss
- ✓ Stainless steel spring ensures long lasting, uniform and accurate operation
- ✓ Can be connected to the emitter from both sides (male or female connection)
- ✓ Can be connected to all mini sprinklers
- ✓ **4 Models are available:**

Model	Opening Pressure		Closing Pressure		Water Flow
	bar	psi	bar	psi	
530-L	1.0 ± 0.1	14.5 ± 1.45	0.4 ± 0.1	5.8 ± 1.45	Bi Directional
530-H	1.5 ± 0.2	21.7 ± 2.9	0.7 ± 0.1	10.1 ± 1.45	Bi Directional
530-X	2.5 ± 0.2	36.2 ± 2.9	1.5 ± 0.1	21.7 ± 1.45	Arrow direction only
530-Y	3.5 ± 0.2	50.7 ± 2.9	2.5 ± 0.1	36.2 ± 1.45	Arrow direction only



The 500 pressure regulator is used in order to maintain constant operating pressure at the emitter inlet despite pressure fluctuations in the irrigation system or higher pressure than required. The pressure regulator is installed at the emitter inlet by "press-fit" connection.

Applications

- ✓ Used in areas with high slopes and difficult topographic conditions
- ✓ Applicable in areas with high inlet pressure. Using the pressure regulator enables the use of smaller diameter pipes and longer laterals

Features

- ✓ Most economic pressure regulator of its type
- ✓ Other pressure pre-sets can be available upon request
- ✓ Contact Tavlit for more information

Technical Specifications

- ✓ The 500 pressure regulator can be connected to all emitters within the range of flow rates
- ✓ **Three models are available:**
 - ✓ **Model 500-14**
Regulated pressure 1.4bar (20psi), used for flow rates: 35 to 160lph (0.15-0.70gpm)
 - ✓ **Model 500-20**
Regulated pressure 2.0bar (29psi), used for flow rates: 35 to 160lph (0.15-0.70gpm)
 - ✓ **Model 500-20H**
Regulated pressure 2.0bar (29psi), used for flow rates: 160 to 300lph (0.70-1.32gpm)
- ✓ The pressure regulator does not affect the uniform water distribution of the attached emitter
- ✓ Wide water passages prevents clogging
- ✓ Modular, connects by "press-fit" design
- ✓ Special engineering raw materials and stainless steel spring for long life & durability



The 900 sprinkler is an economic and high performance sprinkler. The product simple construction and the press fit assembly offers the user a more economical solution for overlapping low flow irrigation since the emitter can be connected directly to the lateral with a plunger. The 900 series operates on a patented concept based on Ein Dor proven water turbine and as a result irrigates with a smooth and balanced operation. The two jets design gives better resistance to wind conditions and ensures uniform water distribution

Applications

- ✓ Ideal for irrigation of green houses and nurseries, in and above the green house for: Nurseries, greenhouses, cooling & frost protection

Available connections

- ✓ Plunger for PE tube $\frac{5}{8}$ "
- ✓ Press fit for collar and $\frac{9}{13}$ PVC tube

Technical Specifications

- ✓ Simple construction
- ✓ **Available in:** 180, 200, 240, 300lph, (0.79, 0.88, 1.06, 1.32gpm)
- ✓ **Optimal Operating Pressure:** 2.0-2.5bar (29-36psi)
- ✓ **Overlapping Spacing:** up 9 x 9m (30 x 30ft)
- ✓ **Wetting Diameter** 14-16m (46-53ft)
- ✓ **Required Filtration** - 60mesh
- ✓ Special engineering raw materials for long life and durability

Technical Data

Model	Nozzle Diameter		Nozzle Color	Flow Rate		Wetting Diameter		Overlapping Spacing	
	mm	inch		L/h	gpm	m	ft	m	ft
961	1.5	0.059	●	120	0.528	12	39	7x7	23x23
961	0.8	0.070	●	160	0.704	12.5	41	7x7	23x23
900/920	1.9	0.074	●	180	0.790	14	46	7x7	23x23
900/920	2.0	0.078	●	200	0.880	14	46	7x7	23x23
900/920	2.2	0.086	●	240	0.060	15	49	10x10*	33x33
900/920	2.4	0.094	●	300	1.320	15	49	10x10*	33x33
920	2.7	0.105	●	400	1.760	14	46	7x7	23x23
920	2.8	0.109	●	450	1.980	14	46	7x7	23x23

Rectangular spacing at 70 cm (2ft) height and operational pressure of 2bar (29psi)

*Model 920



Male thread 1/2"



This series of low volume, double jet sprinklers is ideal for overlapping irrigation of open fields, combining low flow rates, large diameter of throw and uniform distribution. The sprinklers operate on a patented concept, based on a turbine mechanism, as a result it irrigates with a smooth and balanced operation. The two jets design gives better resistance to wind conditions and uniform distribution. The large diameter of throw and the uniform distribution enables large spacing, up to 10 x 10m (33 x 33ft).

Applications

- ✓ Ideal for crops that are sensitive to uniform water distribution, such as vegetables, carrots, potatoes, onions and greens
- ✓ Also applicable for nurseries, greenhouses, cooling and frost protection
- ✓ Full coverage of plantation (banana, avocado, kiwi, mature trees etc.)
- ✓ Parks & gardens

Available connections

- ✓ Female Thread: $\frac{1}{2}$ ", $\frac{3}{4}$ "
- ✓ New - Male thread $\frac{1}{2}$ "
- ✓ Plunger for PE tube $\frac{5}{8}$ "
- ✓ Press fit for collar and $\frac{9}{13}$ PVC tube

Technical Specifications

- ✓ Insect protected - sprinkler shuts off after irrigation
- ✓ Integral inlet filter
- ✓ **Available in:** 180, 200, 240, 300, 400, 450L/h, (0.77, 0.88, 1.06, 1.32, 1.76, 1.98gpm)
- ✓ **Working Pressure Maximum Range:** 2-3 (29-43psi)bars
- ✓ **Optimal Operating Pressure:** 2.2-3.0bar (32-43psi)
- ✓ **Overlapping Spacing:** up to 10 x 10m (33 x 33ft)
- ✓ **Wetting Diameter:** 14-16 m (46-53 ft)
- ✓ Trajectory angle 12°
- ✓ **Required filtration:** 60mesh
- ✓ Special engineering raw materials for long life and durability



This series of low flow rates sprinklers expand the range of sprinklers TAVLIT offers with two flow rates, 120, 160lph (0.53, 0.70gpm), enabling growers to reduce precipitation rate and still enjoy the benefits of TAVLIT sprinklers with regards to uniformity, trouble free operation and simple installation. The 961 series operates on a patented concept based on Ein Dor proven water turbine and as a result irrigates with a smooth and balanced operation. The one jet design enables the use of low flow rates and still keep the large overlapping spacing.

Applications

- ✓ Ideal for crops that are sensitive to uniform water distribution, such as vegetables, carrots, potatoes, onions, greens and other crops that require low precipitation rates
- ✓ Also applicable for nurseries, greenhouses, cooling and frost protection
- ✓ Full coverage of plantation (banana, avocado, kiwi, mature trees etc.)
- ✓ Parks and gardens

Available Connections

- ✓ Plunger for PE tube $\frac{5}{8}$ "
- ✓ Press fit for collar and $\frac{9}{13}$ PVC tube

Technical Specifications

- ✓ Insect protected - sprinkler shuts off after irrigation
- ✓ Integral inlet filter
- ✓ **Available in:** 120, 160 lph (0.53, 0.70gpm). Other flow rates are under development
- ✓ **Optimal Operating Pressure Range:** 2.0-2.5bar (29-36psi)
- ✓ **Overlapping Spacing:** up 7 x 7m (23 x 23ft)
- ✓ **Wetting Diameter** 12.5m (41ft)
- ✓ **Required Filtration** - 60mesh
- ✓ Special engineering raw materials for long life and durability



This product, offered in 120lph (0.528gpm) is an adjustable part circle sprinkler that can be adjusted easily to irrigate any sector for example an arc of 90° or 270°.

Applications

- ✓ For the edge of fields irrigated with full circle sprinklers in order not to wet the road and save water
- ✓ For Home gardens and landscape
- ✓ Can be used to irrigate wide strips and medians by spacing the sprinklers on both sides of the strip at spacings up to 8 x 8m (26 x 26ft)

Available connections

- ✓ Plunger for PE tube 5/8"
- ✓ Press fit for collar and 9/13 PVC tube

Technical Specifications

- ✓ Insect protected - sprinkler shuts off after irrigation
- ✓ Integral inlet filter
- ✓ **Currently Available in:** 120lph (0.53gpm)
Other flow rates are under development
- ✓ **Optimal Operating Pressure:**
2.0-2.5bar (29-36psi)
- ✓ **Overlapping Spacing:** up 8 x 8m (26 x 26ft),
for wide strips and medians
- ✓ **Wetting Radius:** 7m (23ft)
- ✓ **Required Filtration:** 60mesh
- ✓ Special engineering raw materials for long life and durability



Applications

- ✓ Used primarily for climate control - reduction of temp and adding humidity to the air
- ✓ Used for germination, rooting and seedling
- ✓ Applicable for humidity controlled environment
- ✓ Used for reducing high temperature and creating micro climate conditions in greenhouses, chicken coops and animal houses

Features

- ✓ Very small droplets allow in air evaporation and minimal wetting of the ground
- ✓ Incorporates a vortex design, breaking the water droplet to a fine mist
- ✓ Modular, lightweight and easy to install, maintain and configure
- ✓ Three part construction with O-Ring for a tight seal and leak proof

Technical Specifications

- ✓ **Engineering raw materials:** Body - Polyester (PBT), O-Ring - EPDM
- ✓ **Nominal flow rate** at 3.5bar, (51psi)
- ✓ **Operating pressure:** 2.5 to 5.5bar, (36-80psi)
- ✓ **Cover Diameter:** 60-120cm, (2-4ft)
- ✓ Pattern 360°
- ✓ Trajectory angle 80° to 100°
- ✓ **Average droplet size** 60-100micron, (2.5-4.0mil)
- ✓ Installation spacing defers by application, please consult the product technical page or contact TAVLIT
- ✓ **Recommended Filtration:** 200mesh (80micron)
- ✓ The use of NDV is highly recommended in order to prevent dripping, keep the laterals full and save water

Metric / U.S. Units Flow Rates (l/h) Versus Pressure (bar) / (psi), Single Head

Nozzle Size (micron)	Nozzle Color	Nominal Flow Rate (l/h)	2.5 bar	2.8 bar	3.2 bar	3.5 bar	3.9 bar	4.2 bar	4.6 bar	4.9 bar
26	●	3	2.9	3.1	3.2	3.3	3.3	3.4	3.4	3.6
33	●	4	3.3	3.5	3.8	3.9	4.1	4.3	4.4	4.6
51	●	6	5.2	5.7	5.8	6.0	6.2	6.5	6.6	6.9
63	●	8	6.4	6.9	7.3	7.7	7.9	8.3	8.6	8.8
89	●	12	9.2	9.9	10.6	11.1	11.5	12.0	12.4	13.0
Nozzle Size (micro-inch)	Nozzle Color	Nominal Flow Rate (gpm)	36 psi	41 psi	46 psi	51 psi	56 psi	61 psi	67 psi	71 psi
1.02	●	0.013	0.013	0.014	0.014	0.015	0.015	0.015	0.015	0.016
1.30	●	0.018	0.015	0.015	0.017	0.017	0.018	0.019	0.019	0.020
2.01	●	0.026	0.023	0.025	0.026	0.026	0.027	0.029	0.029	0.030
2.48	●	0.035	0.028	0.030	0.032	0.034	0.035	0.037	0.038	0.039
3.50	●	0.053	0.040	0.044	0.047	0.049	0.051	0.053	0.055	0.057

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)

Series 8XX

Insect protected "Bridge" Mini Sprinklers

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

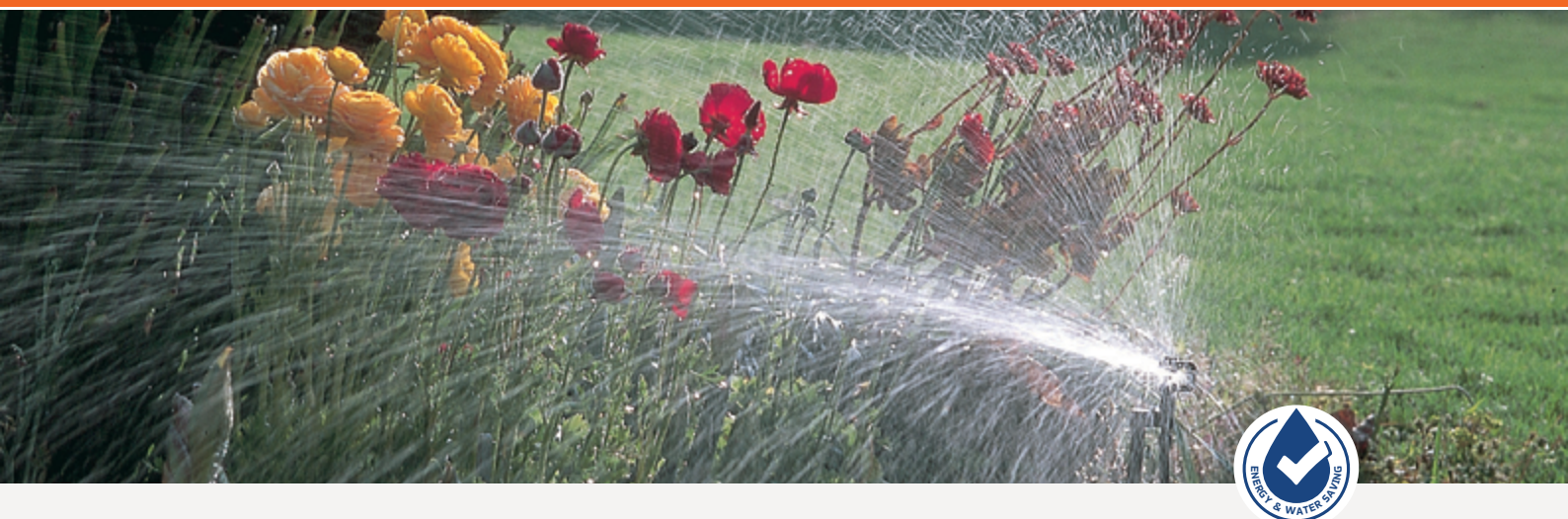
- ✓ Landscape and home gardens
- ✓ Irrigation at the edge of a field in order to prevent water runoff
- ✓ Trees - on both sides of the tree to avoid wetting of the trunk
- ✓ Strip irrigation, by setting the mini sprinklers in overlapping position, on both sides of the strip

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



This series of excellent static emitters includes a wide range of sprayer heads and flow rates to cover various water distribution patterns and wetting diameters. The superb performance offered by the 4XXX series allows its use in speciality requirements of agricultural and landscape irrigation.

Applications

- ✓ For irrigation of: trees, vines and young plantations
- ✓ Applicable for narrow bed, strips, sector areas, potted plants
- ✓ Can be used for Landscape and Home gardening
- ✓ Frost protection

Features

- ✓ NFR - Nozzle Flow Reducer, enabling a low flow with a relatively large nozzle that prevents clogging
- ✓ Firm Construction - For harsh field conditions.
- ✓ Static Operation - No moving parts ensures trouble free operation
- ✓ Excellent Performance-Irrigates with fine drops and no mist

Technical Specifications

- ✓ Range of flow rates to meet various requirements:
12-180lph (0.05-0.79gpm)
Additional flow rates and patterns are possible. Please consult TAVLIT
- ✓ **Nominal Flow Rates** at 2.0bar (29psi)
- ✓ **Operating Pressure:** 1.5-3.5bar (22-52psi)
- ✓ Sprayer head are color coded for easy identification
- ✓ **Series 4xxx can be supplied as PC**
Energy & Water saving - Emitters can operate at low pressure of 1bar (14.5psi) and flow rates as low as 12lph (0.05gpm)
Please consult TAVLIT
- ✓ **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 160 lph (0.70gpm)

Wetting Area (meters / feet) at 2bar / 29psi and 25cm / 10" height

			4460	4461	4462	4463	4452	4454	4442*	4444**
Spreader Head										
Coverage Scheme										
			360°	320° LDE	360°	360°	180°	90°	Twin	360° Ellipse
Nozzle	Nozzle Color	lph								
1.0		20			2.4	0.7			0.5x0.8 dist 1.5m	
1.3		40	3.2	3.2	3.5	0.9	1.8 radius	2.2 radius	0.6x0.9 dist 2.4m	3.8x1.5 strip
1.3		60	4.0	4.0	3.6	0.9	2.0			5.6x1.8 strip
1.8		70	3.8	3.8	3.2	0.9	2.0 radius	2.9 radius	0.8x1.2 dist 2.8m	4.0x2.8 strip
2.0		90	4.0	4.0	3.3	0.9	2.4 radius		1.0x1.8 dist 3.2m	5.0x2.8 Elliptical
0.039		0.09			8	2			2x3 dist 5ft	
0.051		0.18	10	10	11	3	8 radius	7 radius	2x3 dist 8ft	12x5 strip
0.051		0.26	13	13	12	3	7			18x6 strip
0.070		0.31	12	12	10	3	7 radius	10 radius	2.8x4 dist 9ft	13x9 strip
0.078		0.39	13	13	11	3	8 radius		3x6 dist 10ft	16x9 strip
Operating Pressure (bar)			1.5-3.5	1.5-3.5	1.0-3.5	1.5-3.5	1.5-3.5	1.5-3.5	1.5-3.5	1.5-3.5
Operating Pressure (psi)			22-51	22-51	14.5-51.0	22-51	22-51	22-51	22-51	22-51

* Dist = Distance from center to center of 2 ellipses.

** Strip = Strip irrigation, (overlapping).



Jet Sprayer Model 4168

Applications

- ✓ Used for irrigation of trees and orchards
- ✓ Applicable for Parks and home gardens.
Wherever a large wetting diameter with a static emitter is required

Features

- ✓ INF - Integral Nozzle Filter-Protects the nozzle from debris and clogging
- ✓ Firm Construction - For harsh field conditions
- ✓ Static Operation - No moving parts ensures trouble free operation
- ✓ Excellent performance - 12 jets sprayer without mist

Technical Specifications

- ✓ **Large Wetting Diameter:** up to 10m (33ft)
- ✓ **Available Flow Rates:**
35-180lph (0.15-0.79gpm)
- ✓ All nozzles are black, flow rate is imprinted on the bridge
- ✓ **Nominal Flow Rates at 2.0bar (29psi)**
- ✓ **Working Pressure Maximum Range:**
1.0-3.5bar (14.5-51.0psi)
- ✓ **Recommended Working Pressure:**
1.0-2.5bar (14.5-36.0psi)

Technical Data

Nozzle Marking	Nozzle size		4168	
	(mm)	(inch)	Wetting Diameter	
			(m)	(ft)
35	0.8	0.035	3.2	10
50	1.0	0.043	4.1	13
70	1.2	0.050	5.3	17
90	1.3	0.055	6.3	21
160	1.8	0.070	8.5	28
180	2.0	0.078	10.0	33
Spreader Head Color			●	
Irrigated Section			☀ 360°	
Operating Pressur			1.0-3.5bar (14.5-51psi)	

Model 4168 at 2bar and 25cm height
(29psi and 1ft height)

All nozzles are black.

The flow rate is imprinted on the bridge.



Misters Model 4191

Applications

- ✓ Used for germination, rooting and seedling
- ✓ Applicable for humidity controlled environment
- ✓ Used for reducing high temperature and creating micro climate conditions in greenhouses, chicken coops and animal houses
- ✓ For irrigation of single bench plants in single lateral

Features

- ✓ INF - Integral Nozzle Filter-Protects the nozzle from debris and clogging
- ✓ Firm Construction - For harsh field conditions
- ✓ Static Operation - No moving parts ensures trouble free operation
- ✓ Excellent performance - Misters create very fine droplets 0.15mm at 3bar (6micro inch at 43psi). The size of the droplets become smaller when the pressure increases

Technical Specifications

- ✓ **Available Flow Rates:** 12-180lph (0.05-0.79gpm)
- ✓ All nozzles are black, Flow rate is imprinted on the bridge
- ✓ **Nominal Flow Rates:** at 2.0bar (29psi)
- ✓ **Working Pressure Maximum Range:** 1-5bar (14.5-72.0psi)
- ✓ **Recommended Working Pressure:** 2.0-3.5bar (29-51psi)
- ✓ Can be connected to NDV (non-drip device) in order to prevent dripping when opening and closing the water, keeping the pipes full and shortening the pulsing cycle

Technical Data

Nozzle Marking	Nozzle size		4191	
	(mm)	(inch)	Wetting Diameter	
	(mm)	(inch)	(m)	(ft)
20	0.6	0.023	2.2	7
35	0.8	0.035	2.5	8
50	1.0	0.043	2.8	9
70	1.2	0.050	3.0	10
90	1.3	0.055	3.2	10
160	1.8	0.070		
180	2.0	0.078		
Spreader Head Color			●	
Irrigated Section			⊗ 320° LDE	
Operating Pressure			1.0-5.0bar (14.5-72.0psi)	

Model 4191 at 2bar and 200mm height inverted (29psi and 7ft height).

All nozzles are black .

The flow rate is imprinted on the bridge.

Model 4442 - Twin Sprayer



Features

- ✓ Irrigates two small elliptical areas on both sides of the sprayer
- ✓ Irrigates two plants or vines with one sprayer, available flow rate from 10lph (0.044gpm) per each irrigated side
- ✓ Can be spaced in overlapping achieving uniform water distribution in a narrow strip
- ✓ The product can be assembled for upright or upside down assembly
- ✓ **Available Flow Rates:** 20, 40, 70, 90 lph (0.09, 0.17, 0.31, 0.39gpm)
- ✓ **Recommended Working Pressure:** 2bar (29psi)

Model 4444 Elipse / Strip Sprayer



Features

- ✓ 4444-40, 60lph (0.18, 0.26gpm) irrigates a narrow strip
- ✓ 4444-70, 90lph (0.31, 0.39gpm) irrigates an elliptical area up to 5.0 x 2.8m (16 x 9ft)
- ✓ **Recommended Working Pressure:** 2bar (29psi)

Model 4452



Features

- ✓ **Wetting Area:** 180°
- ✓ **Wetting Radius:** 1.8 up to 2.4m (6-8ft)
- ✓ **Available Flow Rates:** 40-90lph (0.18-0.39gpm)
- ✓ **Recommended Working Pressure:** 2.0bar (29psi)

Model 4454



Features

- ✓ **Wetting Area:** 90°
- ✓ **Wetting Radius:** 2.2 up to 2.9m (8-10ft)
- ✓ **Available Flow Rates:** 40, 70lph (0.18, 0.31gpm)
- ✓ **Recommended Working Pressure:** 2.0bar (29psi)

Model 4460



Features

- ✓ Full circle irrigation
- ✓ **Diameter:** up to 4.0m (13ft)
- ✓ **Available Flow Rates:** 40-90lph (0.18-0.39gpm)
- ✓ **Recommended Working Pressure:** 2.0bar (29psi)

Model 4461



Features

- ✓ Irrigates 320° (maintains the area around the trunk of the tree dry).
- ✓ **Wetting Diameter:** up to 4.0m (13ft).
- ✓ **Available flow Rates:** 40-90lph (0.17-0.39gpm)
- ✓ **Recommended Working Pressure:** 2.0bar (29psi)

Model 4462



Features

- ✓ Full circle irrigation
- ✓ **Wetting Diameter:** up to 3.3m (11ft)
- ✓ **Available Flow Rates:** 20-90lph (0.09-0.39gpm)
- ✓ **Recommended Working Pressure:** 2.0 bar (29 psi)

Model 4463



Features

- ✓ Full circle irrigation
- ✓ **Very Small Wetting Diameter:** 0.7 up to 0.9m (2-3ft)
- ✓ **Available Flow Rates:** 20-90lph (0.09-0.39gpm)
- ✓ **Recommended Working Pressure:** 2.0bar (29psi)



The 700 series is an exceptional dynamic sprayer, constructed with a thin needle located inside the orifice and vibrates when in operation and distributes evenly fine droplets on a medium area.

Applications

- ✓ Applicable for irrigation of trees with Small/medium root zone
- ✓ The emitter can be installed in upside down position for reduced wetting diameter. This is applicable for young plantation, enabling the grower to irrigate only the root zone and thus save water. After the tree grows the emitter can be set upright to irrigate the larger root zone
- ✓ For greenhouses irrigation

Features

- ✓ No bridge emitter
- ✓ Vibrating needle constantly cleaning the orifice and prevents accumulation of debris inside the nozzle
- ✓ Insect protected- Needle shuts the nozzle off at the end of the irrigation
- ✓ Uniform distribution in wide range of flow rates
- ✓ Special engineering raw materials for long life and durability

Technical Specifications

- ✓ **Available Flow Rates:**
40-160liters per hour (0.18-0.70 gpm)
- ✓ **Nominal Flow Rate:** at 2.0bar (29psi)
- ✓ **Recommended Working Pressure Range:**
1.5-2.2bar (21-32psi)
- ✓ **Wetting Diameter:** 3.0-5.4m (10-18ft)
- ✓ **Recommended Filtration:**
100mesh for flow rates up to 40lph (0.176gpm)
80mesh for flows up to 90 lph (0.396gpm)
60mesh for flows up to 160 lph (0.704gpm)

Technical Data

(Max. Wetting Diameter*)

Nozzle Diameter			Flow Rate		700	
mm	inch		lph	gpm	m	Ft
0.9	0.039	●	40	0.18	3.0	10
1.1	0.047	●	60	0.26	4.0	13
1.2	0.050	●	70	0.31	4.4	14
1.3	0.055	●	90	0.39	4.6	15
1.4	0.058	●	105	0.46	5.0	16
1.5	0.066	●	120	0.53	5.2	17
1.8	0.071	●	160	0.70	5.4	18

*At 2bar (29psi)

Series 80X

"Bridge Design" Mini Sprinklers



This time proven series offers a wide range of dynamic spray heads and swivels with a wide range of flow-rates, constructed in a robust bridge. Series 80x include the following models.

Mini Sprinklers

Series 800	Large wetting diameter
Series 801	Low pressure & Large wetting diameter
Series 803	for green houses irrigation, the emitter is installed inverted

Spraying Heads

Series 806/806S	Static sprayer for medium/small wetting diameter
Series 807	Bubbler
Series 809	Mister

Features

- ✓ Robust bridge design for harsh field conditions
- ✓ Uniform distribution in wide range of flow rates
- ✓ Special engineering raw materials for long life and durability

Technical Specifications

- ✓ Wide range of nozzles to meet all applications 20-240lph (0.09-1.06gpm)
- ✓ **Nominal Flow Rate:** at 2.0bar (29psi)
- ✓ **Recommended Working Pressure Range:** 1.0-2.5bar (14.5-36.0psi)
- ✓ **Wetting Diameter:** 0.2-10.5m (1-33ft)
- ✓ **Recommended Filtration:**
 - 100 mesh for flow rates up to 40lph (0.18gpm)
 - 80 mesh for flows up to 90lph (0.39gpm)
 - 60 mesh for flows up to 240lph (1.06gpm)

Series 80X

"Bridge Design" Mini Sprinklers

Technical Data

Nozzle Diameter		Color	Flow Rate		Max. Wetting D at 2bar (29psi)											
					800		801		803		806		807		809	
mm	inch		lph	gpm	m	Ft	m	Ft	m	Ft	m	Ft	m	Ft	m	Ft
0.6	0.023	●	20	0.09			5.3	17					0.2	1	1.8	6
0.8	0.035	●	35	0.15	5.0	16	5.7	19	6.9	23	2.6	9	0.2	1	2.3	8
0.9	0.039	●	40	0.18	5.5	18	6.0	20	7.0	23	2.7	9	0.2	1	2.3	8
1.0	0.043	●	50	0.22	6.4	21	6.3	21	7.2	24	2.9	10	0.3	1	2.4	8
1.1	0.047	●	60	0.26	6.7	22	6.7	22	7.5	25	2.9	10	0.4	1	2.6	9
1.2	0.050	●	70	0.31	7.0	23	7.5	25	7.8	26	3.0	10	0.5	2	3.1	10
1.3	0.055	●	90	0.39	7.5	25	7.8	26	8.2	27	3.2	10	0.6	2	3.2	10
1.4	0.058	●	105	0.46	7.7	25	8.0	26	8.6	28	3.5	11	0.8	3	3.4	11
1.5	0.066	●	120	0.53	8.0	26	8.1	27	8.8	29	3.9	13	1.4	5	3.5	11
1.7	0.070	●	140	0.62	8.5	28	8.8	29	9.2	30	4.3	14	1.6	5		
1.7	0.071	●	160	0.70	9.5	31	8.9	29	9.2	30	4.5	15	1.8	6		
2.0	0.078	●	200	0.88	10.0	33	10.0	33	10.1	33	5.3	17				
2.2	0.086	●	240	1.06	10.0	33	10.5	34	10.2	33	5.4	18				



Models 800-801

Applications

- ✓ Products are 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
- ✓ Full coverage irrigation in greenhouses, flower beds and vegetables
- ✓ Products can be used for frost protection and cooling systems

Technical Specifications

- ✓ Wide range of nozzles to meet all applications 20-240liters per hour (0.09-1.06gpm)
- ✓ Nominal Flow rate at 2.0bar (29psi)
- ✓ Optimal pressure range 1.0-2.5bar (14.5-36.0psi)
- ✓ Large wetting diameter: 5.3-10.5m (17-34ft)
- ✓ Recommended overlapping spacing up to 5 x 5m (16 x 16ft)
- ✓ Trunk Protector can be added in order to avoid wetting of the tree trunk

Model 800

- ✓ **Optimal Operating Pressure:** 2.0bar (29psi) for overlapping irrigation spacing up to 5 x 5m (16 x 16ft)

Model 801

- ✓ **Optimal Operation Pressure:**
 - 1.4bar (20psi) for single emitter irrigation
 - 2.0bar (29psi) for overlapping irrigation at spacing up to 5 x 5m (16 x 16ft)



Model 803

Upside Down Irrigation

Applications

- ✓ Applicable for overlapping irrigation in greenhouses and nurseries
- ✓ For seedling and germination
- ✓ Cooling and micro climate

Technical Specifications

- ✓ Wide range of nozzles to meet all applications 35-240lph (0.15-1.06gpm)
- ✓ Nominal Flow rate at 2.0bar (29psi)
- ✓ Optimal working pressure range 2.0-2.5bar (29-36psi)
- ✓ Large wetting diameter 6.9-10.2m (23-33ft)
- ✓ Recommended overlapping spacing (Inverted)
- ✓ Rectangular spacing up to 5 x 5m (16 x 16ft)
- ✓ One row of emitters up to 6.0m (20ft) hot house width
- ✓ Two rows of emitters up to 15m (49ft) hot house width
- ✓ Can be connected to NDV (non-drip device) in order to prevent dripping when opening and closing the water, keeping the pipes full and shortening the pulsing cycle

Series 80X

"Bridge Design" Mini Sprinklers

Series 806 - Static Sprayer



Applications

- ✓ Applicable for irrigation of trees with small medium root zone
- ✓ Can be used in home gardens
- ✓ Also available 806S - Small diameter static sprayer
- ✓ Applicable for irrigation of young plantations

Series 807 - Bubbler



Applications

- ✓ Applicable for irrigation of young plantations
- ✓ Specially designed for irrigation of palm trees and large pots

Technical Specifications

- ✓ Dynamic operation
- ✓ Insect protected
- ✓ Large drops without mist

Series 809 - Mister



Applications

- ✓ Used for germination, rooting and seedling
- ✓ Applicable for humidity controlled environment
- ✓ Used for reducing high temperature and creating micro climate conditions

Technical Specifications

- ✓ Creates fine mist with very small droplets
- ✓ **Optimal Working Pressure:** 2-3bar (29-43psi)
- ✓ Droplets become smaller when pressure increases
- ✓ Can be connected to NDV (non-drip device) in order to prevent dripping when opening and closing the water, keeping the pipes full and shortening the pulsing cycle.



An innovative series of emitters specifically designed for irrigation of young plantation of oil palm trees and other trees planted in wide spacing. The emitters throw a jet of water directly into the root zone, thus eliminating the waste of water and minimize growth of weeds.

Available in three configurations:

BJet - 2 jets

TriJet - 3 jets

QuadJet - 4 jets

For irrigation of 2, 3 and 4 trees accordingly.

The emitter is connected to the P.V.C. riser with a specially designed base. The base is used for gluing it to the riser on one side and the other side is a specially designed connector enabling easy and quick connecting of the emitter. When the tree grows, the user can replace the TriJet emitter with a 920 sprinkler equipped with a bayonet connector for full coverage of the plantation. Thus enabling easy replacement of the emitter without cutting the pipe and gluing a new emitter, saving time and money.

Features

- ✓ Ideal for oil palm trees, rubber, citrus and other fruits
- ✓ Adjustable nozzles that can be locked at the right position in order to guarantee that the water jet will direct the water to the root zone and the nozzle will not change its position during irrigation
- ✓ The emitters are equipped with bayonet connection for easy installation and cleaning
- ✓ The Bayonet connection enables the grower to change quickly, easily and without cutting the riser and economically, to the 920 series which enable full coverage of the area
- ✓ The emitter adaptor is a $\frac{3}{4}$ " (20mm) socket adaptor that can be glued to the riser and has a bayonet connector on the other side where the emitter is connected
- ✓ Recommended filtration - 60 mesh

Technical Data

BJet Configuration	Operating Pressure	bar (psi)	0.7 (10)	1.0 (14.5)	1.5 (22)	2.0 (29)	2.5 (36)
BJet							
	Flow rate	L/h (gpm)	135 (0.59)	165 (0.72)	205 (0.90)	235 (1.03)	309 (1.36)
	Jet range at 0°	m (ft)	7 (23)	7.5 (25)	8 (26.5)	11 (36)	11 (36)
	Jet range at 30°	m (ft)	11.5 (38)	12 (40)	12 (40)	12.5 (41)	12.5 (41)
TriJet							
	Flow rate	L/h (gpm)	200 (0.88)	245 (1.07)	306 (1.34)	360 (1.58)	400 (1.75)
	Jet range at 0°	m (ft)	7.5 (25)	8 (26.5)	8 (26.5)	9 (30)	9 (30)
	Jet range at 30°	m (ft)	11 (36)	11 (36)	11.5 (38)	12 (40)	12 (40)
QuadJet							
	Flow rate	L/h (gpm)	200 (0.88)	245 (1.07)	306 (1.34)	360 (1.58)	400 (1.75)
	Jet range at 0°	m (ft)	7.5 (25)	8 (26.5)	8 (26.5)	9 (30)	9 (30)
	Jet range at 30°	m (ft)	11 (36)	11 (36)	11.5 (38)	12 (40)	12 (40)



TAVLIT offers a new range of adjustable emitters for residential gardens, planter boxes, large pots, flowerbeds, ground covers, shrubs and trees.

Emitters are offered in two models; on a small spike and as a button configuration for direct insertion to the pipe. An adjustable cap enables the user to control flow rates. The Peleg emitters are constructed of UV-resistant, durable plastic materials.

The Peleg series include the following models:

- Adjustable Drip Emitters
- Adjustable spray Jet
- Adjustable Bubbler
- Fan Spray Jets
- Jet sprayers

Adjustable Drip Emitters



Product Description

Full circle and half circle models are offered, both with adjustable head

Technical Specifications

- ✓ Flow Rates: 0 - 70lph (0 - 20gph)
- ✓ Wetting Diameter: up to 1m (3.5')
- ✓ Recommended Working Pressure: 0.7 - 2bar (10 - 30psi)

Fan Spray Jets



Product Description

One piece jet with threaded base and wide wing edges for easy installation

Technical Specifications

- ✓ Available in 90° - blue, 180° - green, 360° - red spraying pattern
- ✓ Flow Rates Range: 40 - 160lph (11 - 45gph)
- ✓ Max Wetting Diameter: 3.0m (10')
- ✓ Recommended Working Pressure: 1 - 2.4bar (15 - 35psi)

Adjustable Bubbler



Product Description

Full circle irrigation, gentle stream and an umbrella pattern

Technical Specifications

- ✓ Flow Rates: 0 - 120lph (0 - 33gph)
- ✓ Wetting Diameter: up to 1m (3.5')
- ✓ Recommended Working Pressure: 1 - 2bar (15 - 30psi)

Jet Sprayers



Product Description

Two piece micro sprayer consisting of a removable spray cap and threaded base for installation flexibility and easy cleaning

Technical Specifications

- ✓ Available in 90° - black, 180° - blue, 360° - red
- ✓ Flow Rates Range: 50L/h (14gph) at 2bar (30psi)
- ✓ Max Wetting Diameter: 4.5m (14')
- ✓ Recommended Working Pressure: 1-2bar (15-30psi)

Adjustable Spray Jet



Product Description

Vortex type emitter with large water passage to prevent clogging

Technical Specifications

- ✓ Flow Rates: 0 - 70L/h (0 - 20gph)
- ✓ Wetting Diameter: 0 - 3.5m (0 - 11.5')
- ✓ Recommended Working Pressure: 1-2.0bar (15 - 30psi)

Plunger	
	Product Description
	To connect Ein dor (m) components to P.E. pipe
	Catalog Number
PLUN	

Double Plunger	
	Product Description
	To connect 4/7 PVC tube to P.E. pipe (in permanent connection of the assembly)
	Catalog Number
PLUN-D	

Plunger 800	
	Product Description
	To connect Ein dor (f) components to P.E. pipe. Also to insert into 5/8 P.E. tube
	Catalog Number
PLUN-M	

Plunger 12	
	Product Description
	To connect 7/12 & 9/13 PVC TUBE or 12mm P.E. tube to P.E. pipe
	Catalog Number
PLUN-12	

Plunger 1/4	
	Product Description
	1/4" w threaded plunger to connect (m) components to rigid PVC pipe
	Catalog Number
PLUN-14	

Plunger 3/8	
	Product Description
	3/8p threaded plunger to connect (m) components to rigid PVC pipe
	Catalog Number
PLUN-38P	

Plunger m11	
	Product Description
	11mm Threaded plunger to connect (m) components to rigid PVC pipe
	Catalog Number
PLUN-M11	

Coupler	
	Product Description
	Head 670 assembly for (m) components
	Catalog Number
HEAD-8	

Super Coupler	
	Product Description
	Head for 270 assembly (with irod rod)
	Catalog Number
HEAD-8S	

920 Head (f)	
	Product Description
	Integral head of 920 sprinkler for assembly 261f composed of 5/8 P.E. tube with collar (plun-m)
	Catalog Number
92080F	

920 Head (m)	
	Product Description
	Integral head of 920 sprinkler for assembly 261m composed of 5/8 P.E. tube without collar
	Catalog Number
92080M	

Coupler 6	
	Product Description
	Head for sets with 3/5 PVC tube and 6.0mm rod (for pot planted plants)
	Catalog Number
PH-6	

Threaded Head



Product Description

1/2" Threaded (out) head for assembly 280. Also for connecting (m) component to 1/2" riser

Catalog Number

HEAD-12-8

Nut - 1/2" (f)



Product Description

Nut 1/2" (in) threaded for Ein Dor (m) components

Catalog Number

NUT-12F

Nut - 3/4" (f)



Product Description

Nut 3/4" (in) threaded for Ein-Dor (m) components

Catalog Number

NUT-34F

Nut - 1/2" (m)



Product Description

Nut 1/2" (in) threaded for Ein dor (f) components

Catalog Number

NUT-12M

Nut - 3/4" (m)



Product Description

Nut 3/4" (in) threaded for Ein dor (f) components

Catalog Number

NUT-34M

Weight 25g



Product Description

Weight 25gr for inverted assembly

Catalog Number

W-025G

Weight 38g



Product Description

Weight 38gr for inverted assembly

Catalog Number

W-038G

ADAP



Description

Fitting 4.0-8.0mm rod

Catalog Number

ADAP-4.0

Fitting 4.5-8.0mm rod

ADAP-4.5

Fitting 5.8-8.0mm rod

ADAP-5.8

Fitting 6.0-8.0mm rod

ADAP-6.0

Collar



Product Description

To insert into 4/7 PVC tube in assembly: 670, 680, etc.

Catalog Number

COLL

Collar 12



Product Description

To insert into 7/12 or 9/13 PVC tube, and into 12mm P.E. tube

Catalog Number

COLL-12

Double Nipple



Product Description

2-way (out) connector for (f) components

Catalog Number

CONN-2M

Double Nipple



Product Description

2-way (in) connector for (m) components

Catalog Number

CONN-2F

T Connector	
	Product Description
	3-way (in) connector for (m) components
	Catalog Number
TCOF6	

Dan Connector	
	Product Description
	To adapt (m) emitters to "Dan" stand
	Catalog Number
DAN-MF	

Plug	
	Product Description
	To plug plungers: plun, plun- ¹ / ₄ , plun- ³ / ₈ p, plun-m11
	Catalog Number
PLUG	

Plug M	
	Product Description
	To plug plunger plun-m
	Catalog Number
PLUG-M	

Sealer 5	
	Product Description
	To seal small hole
	Catalog Number
HP5	

Sealer 8	
	Product Description
	To seal large hole
	Catalog Number
HP8	

Key	
	Product Description
	All purpose key for dismantle and assemble Ein dor components
	Catalog Number
KEY	

Puncturer	
	Product Description
	Tool to punch 3.5mm hole in P.E. pipe and insert a plunger into the hole
	Catalog Number
PUNC	

Inserter	
	Product Description
	Tool to insert collars into PVC or P.E. tube and to insert plun-m into P.E. pipe
	Catalog Number
KEY	

Plastic Wedge / Iron Rod		
	Description	Catalog Number
	Plastic wedge 25cm	WEDG-25
	Plastic wedge 35cm	WEDG-35
	5.8mm galvanized iron rod 1m	IRON-100

$\frac{4}{7}$ PVC Tube	
Recommendations	
4/7-ROLL	in roll of 100m
4/7-060	60cm with collars
4/7-100	100cm with collars
4/7-060D	60cm with coll and plun-d
4/7-100D	100cm with coll and plun-d
4/7-030PC	30cm with coll and plun
4/7-060PC	60cm with coll and plun
4/7-030PD	30cm with plun and plun-d
4/7-060PD	60cm with plun and plun-d
4/7-030PCW	30cm with coll, plun & weight

$\frac{3}{5}$ PVC Tube	
Recommendations	
3/5 roll in rolls of 100m	

$\frac{5}{8}$ P.E. Tube	
Recommendations	
5/8 roll in roll of 500m	
5/8-100mm 100cm with plun-m x2	

Assemblies	
Recommendations	
670	Assembly with wedge 35cm. long for (m) emitters 86X, 4XXX, 700
680	Assembly with wedge 35cm long for (F) emitters 8XX
261F	Assembly with Iron rod 100 cm long for 920 sprinkler
270	Assembly with Iron rod 100cm long for (m) emitters 900, 961, 961P
ZL866-030P	Inverted set, detachable connection, 4/7-030PC with 530-L non drip, weight 25g
ZL866-030D	Inverted set, permanent connection, 4/7-030PC with 530-L non drip, weight 25gr
ZL4191-030P	Inverted set, detachable connection, 4/7-030PC with 530-L non drip, weight 25gr
ZL4191-030D	Inverted set, permanent connection, 4/7-030PC with 530-L non drip, weight 25gr



Connected to your success!



Plas-Fit



Tavit



Rainline

Plas-Fit Orders Center

Bar-Lev industrial Park
P.O box 21 Misgav,
2015600 Israel

Phone: (+972)4-6445585
Fax: (+972)4-6438399
Email: orders@plas-fit.com
Site: www.plas-fit.com

Tavit Orders Center

13 Nahal Snir St.,
North Industrial Zone,
Yavne, Israel 8122450

Phone: (+972)8-9328010
Fax: (+972)8-9328020
Email: export@tavlit.co.il
Site: www.tavlit.co.il