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Stay connected to your garden: even when you're on the go. Use your smartphone to check what's happening in your garden. Take action on the move. Start, control or stop mowing and irrigation.

Page 40





WATER CONTROL - AT THE TAP

The control system is fitted straight to the tap and the automatic irrigation process starts in no time at all.

Page 32



HEDGES AND ROWS OF PLANTS

water supply to hedges, borders or rows of plants.

Always at the source: Drip irrigation lines provide a permanent

Works simply and like clockwork: Irrigation for rows of plants, such as seedlings.

Page 18

TERRACES AND BALCONIES

Automatically water flower pots and flower boxes. Great for every day and for when you're on holiday.

Page 16



WATER YOUR PLANTS WITHOUT WATER **OR POWER SUPPLY**

The water is pumped from the bucket via pump.







NatureUp!



In bloom and upwards

"Relaxing in the garden makes the soul soar," said Voltaire. NatureUp! allows you to grow plants up your wall, transforming space in front of your front door or French windows into an area where you can relax. Intelligent irrigation means you do not have to water.







Space-saving and decorative

- · Turns small areas into oases of well-being
- · Adds a lot of greenery and a fresh design
- · It is weatherproof
- Is a design feature for corners or side ends



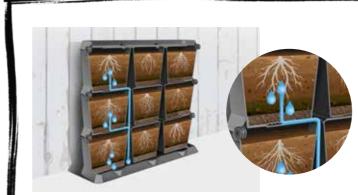
Clever irrigation

- · Can be watered automatically
- With and without a water supply
- · Prevents waterlogging thanks to the drip tray in the baseplate, walls and floors stay clean



Simple assembly and modular design

- Tool-free and simple assembly; easy to put
- Can be flexibly extended to the right, left, above and around corners
- As simple to hang on the wall as a picture



The trick with the water

Each module is watered individually. Excess water flows into a drainage system and then into the lower drip tray, without coming into contact with the other plants. This is a rather clever feature should there happen to be any germs or pathogens.

Product overview

NATUREUP!



Outdoor Cooling Mist Set

Tingling freshness for hot summer days

Where does it come into its own?

Wherever it gets hot and a gentle cooling mist becomes a blessed relief, such as on your balcony, terrace, under your pergola or gazebo etc.







What do I need to do to get started?

The set contains everything you'll need. Easy to clamp on to your sunshade, or pergola etc., connect to a tap and you're done.



Mounting clip for quick installation

This allows you to easily clamp the Cooling Mist Set wherever you need it. It is also really quick to change position.



Mounting clip for fixed installation

Fixed installation allows you to use a screw to permanently attach the Cooling Mist Set.



Control valve coupling

Connect easily to the hose.

How does it work?

It uses a spray nozzle and a water stopper. The Outdoor Cooling Mist Set cools the temperature by up to 6 degrees.



What does it look like?

The light grey of the hose blends in harmoniously with the architecture and design.



city gardening Outdoor Cooling Mist Set

consis

10 m hose, 7 Micro Mist Nozzles (incl. 1 Micro Mist Nozzle with water stop), 13 fixing clamps, hose connector and Control valve coupling.

Product overview see page

OUTDOOR COOLING MIST SET



Plant care for when you're not there.

Water flows even without a connected water supply

Indoor



Holiday Irrigation

For up to 36 pot plants and indoor plants

- Irrigation is activated for one minute each day for dosed irrigation.
- 3 drip-distributors with different flow rates for plants with a different need of water.
- Incl. sustainable and extendable Water Reservoir.







Outdoor



AquaBloom Set

For up to 20 balcony and terrace plants

- · No tap connection needed.
- No mains power needed.
- Solar-powered: tapless and plugless.
- 3in1 main unit (pump, control unit, solar panel).
- 14 pre-set irrigation programmes.
- Optional sustainable and extendable Water Reservoir.



Balcony Watering For flower boxes with a total length of 5-6 m

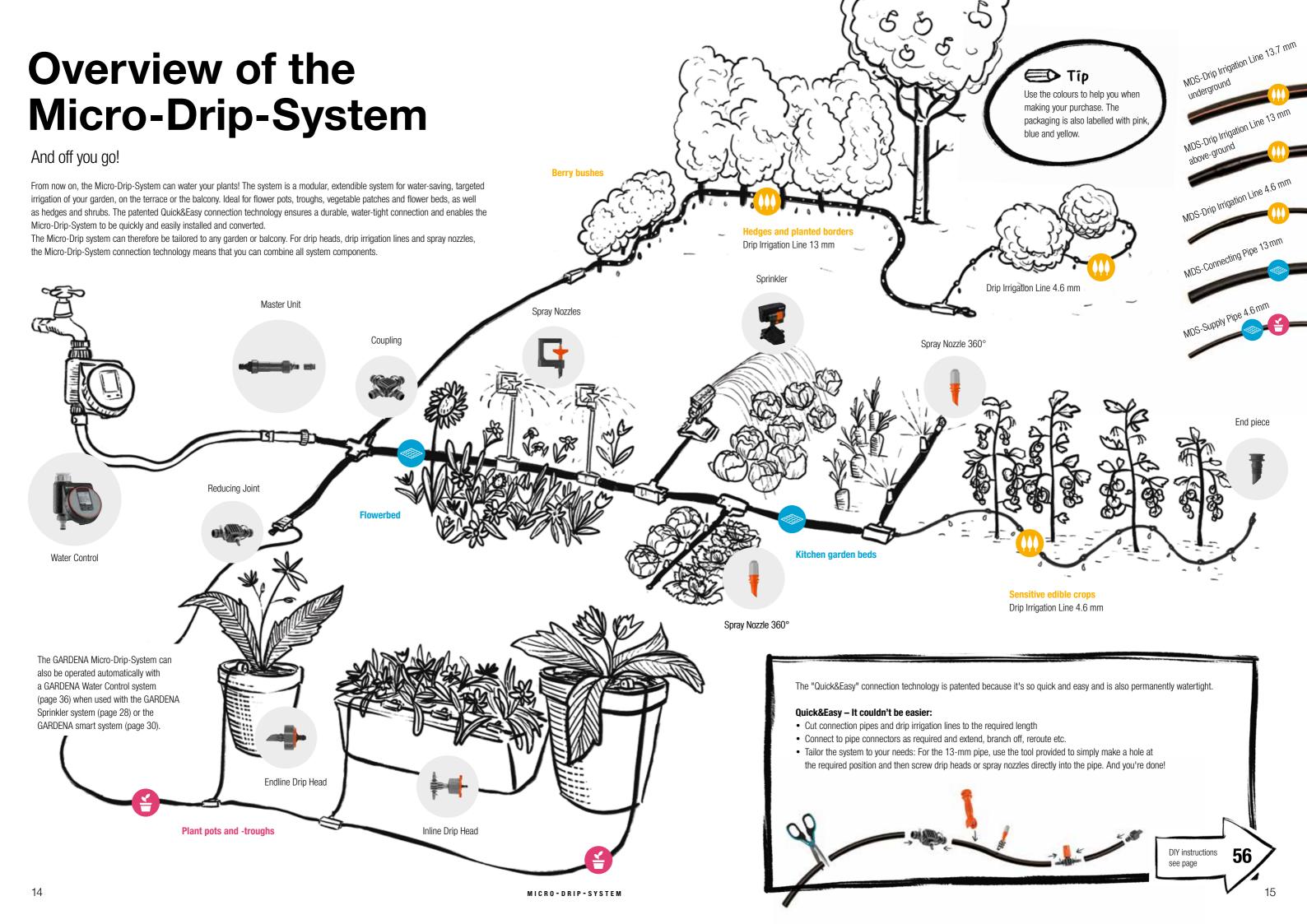


- The pump pumps the water from the container. • The Water Control for the pump allows you to choose from 14 irrigation programmes.
- Inline Drip Heads supply water to your plants accurately and help to conserve water (2 I /hour).











The best time to let something else do the hard work is now!

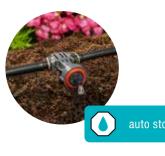


Features of drip heads









Ideal water supply

Either constant or adjustable water flow.

Reliable water supply

Constant water flow across the entire system. Thanks to pressure equalisation in the drip heads. Where there is a longer row of plants or water needs to reach a second row of highly-positioned balcony boxes, it guarantees that all plants are consistently watered.

No calcification

Self cleaning – a labyrinth technology in the drip head prevents limescale.

Efficient solution

Saves water, because the drip head self-closes when the power is turned off and does not leak afterwards.

Types of drip heads

Inline Drip Head

Fitted between the pipeline. They are particularly suited to plant troughs and flower boxes.





Endline Drip Head

Fitted to the end of the pipe. They are particularly suited to watering individual plants. Endline Drip Heads can also be inserted directly into the MDS-Connecting Pipe 13 mm.





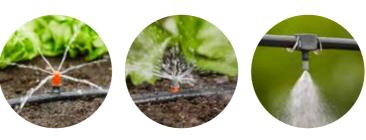


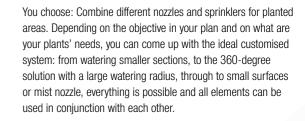
Individually water planted areas

The Micro-Drip-System provides a host of options for areas in your garden: You can combine different spray nozzles or use the oscillating sprinkler to water larger sections. The system offers great freedom in combining the ideal irrigation system.



Spray nozzles











Thicker pipe: better pressure, more water.

Extending and regulating



Fit regulator i

Fit regulator in front of the nozzle.

The extension pipe can be used to extend the spray nozzles. You can regulate the flow rate and the reach.

Use a pipe clip to secure to the ground.



With the T-Joint for Spray Nozzles (8332) spray nozzles can be fixed in the MDS-Supply Pipe 4.6 mm.

Product overview see page

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Wellness for you and for your garden

It is important to keep the root balls moist right after planting. And these "green walls" do not stop needing water later either. Decide whether you want to lay the drip irrigation line above or below ground. Either option works. The Micro-Drip-System provides continuous, regulated and efficient irrigation. Plants thrive particularly well, as the drip irrigation lines water the soil right at the plants and roots.

Above-ground for small hedges or borders

4,6 mm (3/16") drip irrigation line for small hedges or sensitive vegetables and ornamental plants

Max. pipe length: 30 m.* You can add extra branches and extensions.







Above-ground for hedges

13 mm (1/2") drip irrigation line for hedges and plants at the edge of the garden

Max. pipe length: 100 m.*

You can add extra branches and extensions.





Underground for hedges or borders

13,7 mm drip irrigation line for hedges

Max. pipe length: up to 200 m.* Laid depth in planting area approx. 20 cm. Can also be used above-ground.





Above-ground for hedges or borders with Endline Drip Heads





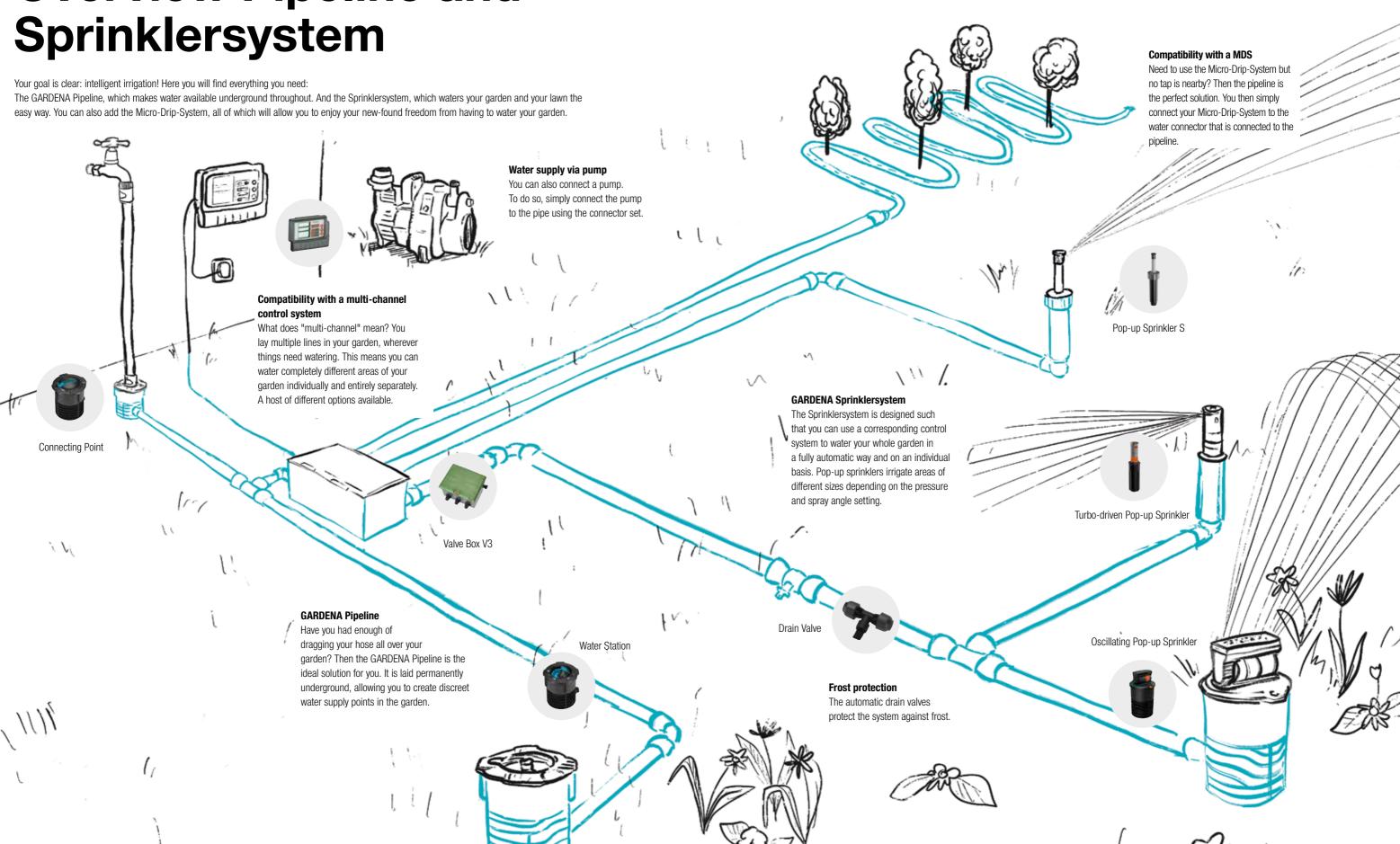
MDS-Connecting Pipe 13 mm for hedges and borders

This allows you to turn the Endline Drip Head directly into the Connecting Pipe at irregular intervals to water the plant directly.





Overview Pipeline and



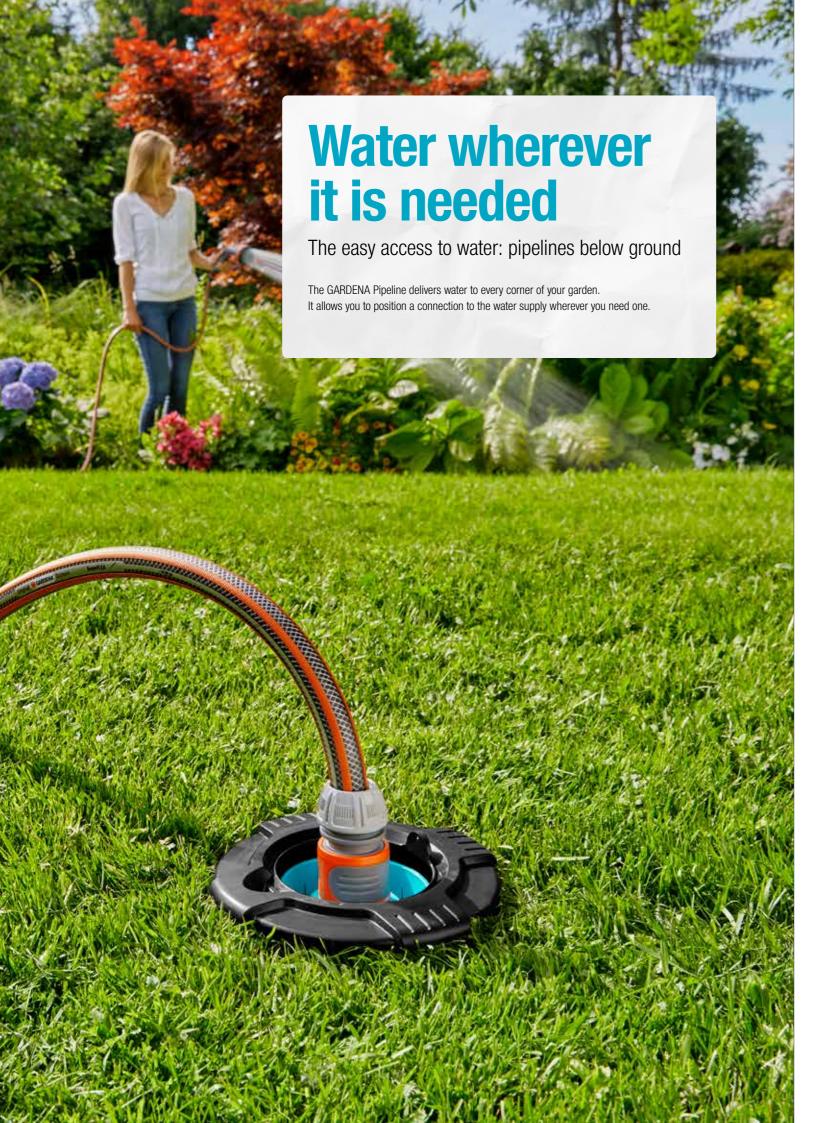
PIPELINE + SPRINKLERSYSTEM

PIPELINE + SPRINKLERSYSTEM

above-ground

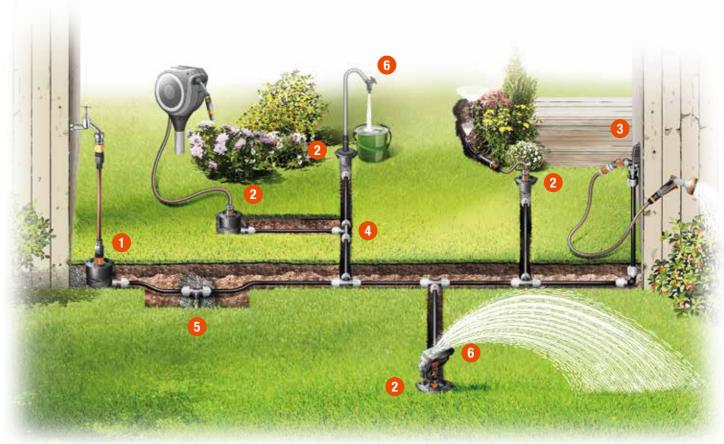
underground

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Invisible, underground installation

GARDENA Pipeline is installed below ground to transport water to parts of the garden that require water. A Water Station is installed at important watering points in the garden. Connect the Pipeline devices, a Garden Hose Box RollUp, a short piece of hose and devices such as a spray lance, spray gun, sprinkler, garden shower or Micro-Drip-System to the Water Station and draw water. No metres of hose lying around, no obstructions and no pressure marks in the lawn. GARDENA Pipeline: Convenient, reliable and easy to plan.













System start

Connecting Point - the water inlet into the system. Connected to the water tap with GARDENA Profi System for maximum water flow.

Water Station 2 and Water Plug 3 – the water outlet into Pipeline devices (connected to 2), Original GARDENA System products and Micro-Drip-System (connected to 2 or 3).

2 3 Water outlet

Patented Connection Technology "Quick & Easy"

Connecting Pipe and Connectors – a perfectly tight connection between the Pipeline components.

5 Frost-proof

Drain Valve - installed on the lowest points the entire system becomes frost-proof.

Additional flexibility with the

6 Pipeline devices

Garden Water Tap and the Oscillating Sprinkler. The devices can be attached to the Water Station.





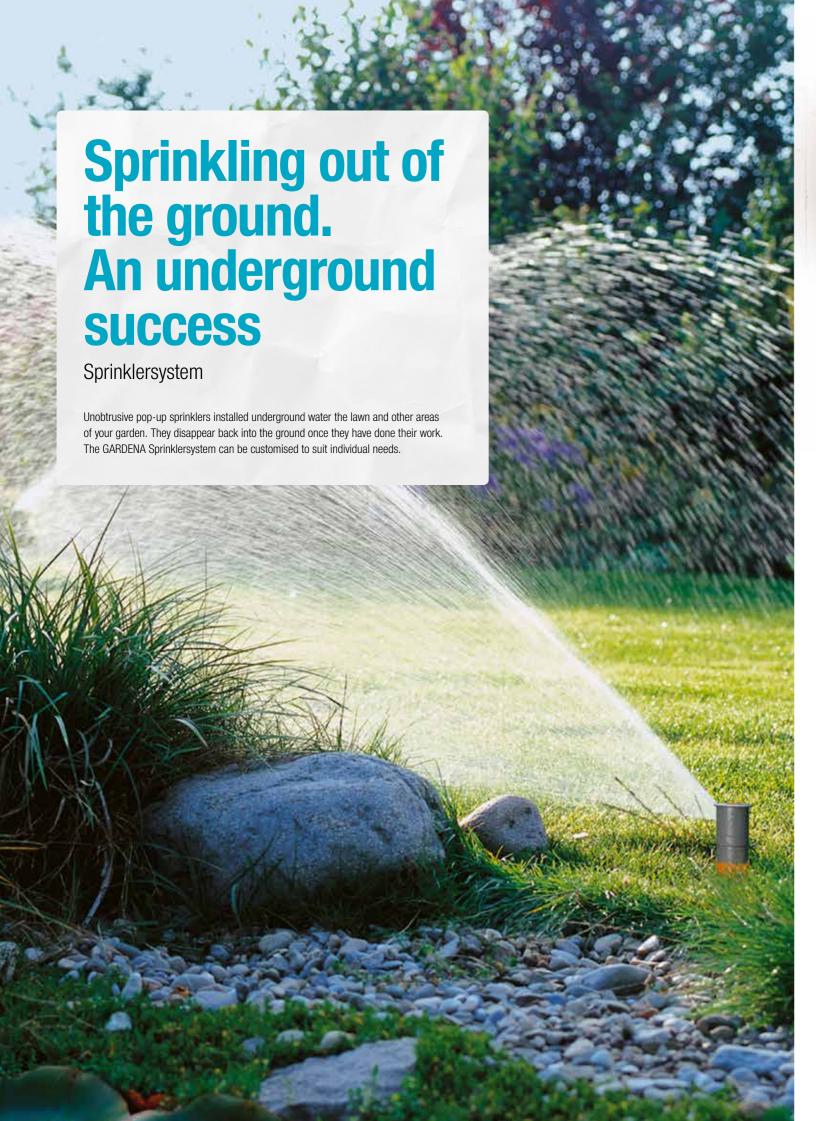




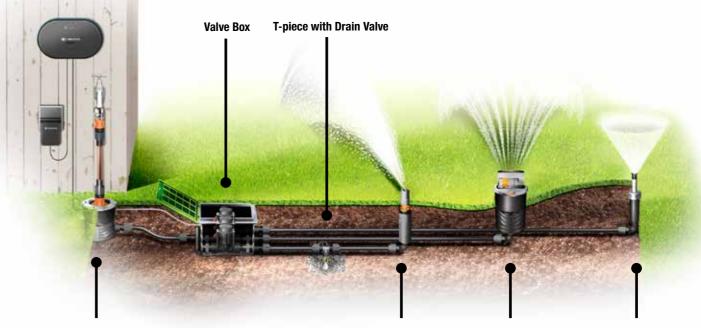
Oscillating Sprinkler just needs to be

clicked on the Water Station.

26 27 PIPELINE + SPRINKLERSYSTEM PIPELINE + SPRINKLERSYSTEM



As if by magic: It's raining from below



Connecting Point

T-model sprinklers Oscillating sprinklers

S-model sprinklers





Ideal for watering square and rectangular areas. Ideal for watering even the smallest areas and narrow areas of your garden.



T-Sprinklers

For medium-sized lawns

up to 380 m². An ideal

partner for other turbo-

driven pop-up sprinklers



Drain valve

Winter frost? No

Valve Box For ease of assembly and to enable irrigation

problem! valves to be installed The automatic drain underground. valves protect the system against frost.



S-Sprinklers

For smaller lawns up to 80 m². Can be used with other S-model pop-up sprinklers within a pipeline. For narrow irrigation areas through to 360°.



Connecting Point

Connects the water tap to the belowground GARDENA Sprinklersystem or to the GARDENA Pipeline.



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Do it yourself

Tip

GARDENA Irrigation Planner "My Garden" on

www.gardena.com/mygarden

Here you can find tips for useful planning and do-it-yourself projects:

Service

Phone +49 (0)7 31/4 90-246 Telefax +49 (0)7 31/4 90-389 service@gardena.com



Connection technology

Can be assembled in no time thanks to patented Quick&Easy quick connection technology. With the new Flexible Connection, the sprinklers can be adjusted easier and stay flexible in case of ground submergence.



PIPELINE + SPRINKLERSYSTEM

Overview Automatic control

Automatic garden irrigation provides the ideal solution when it comes to providing your garden with a reliable supply of water.

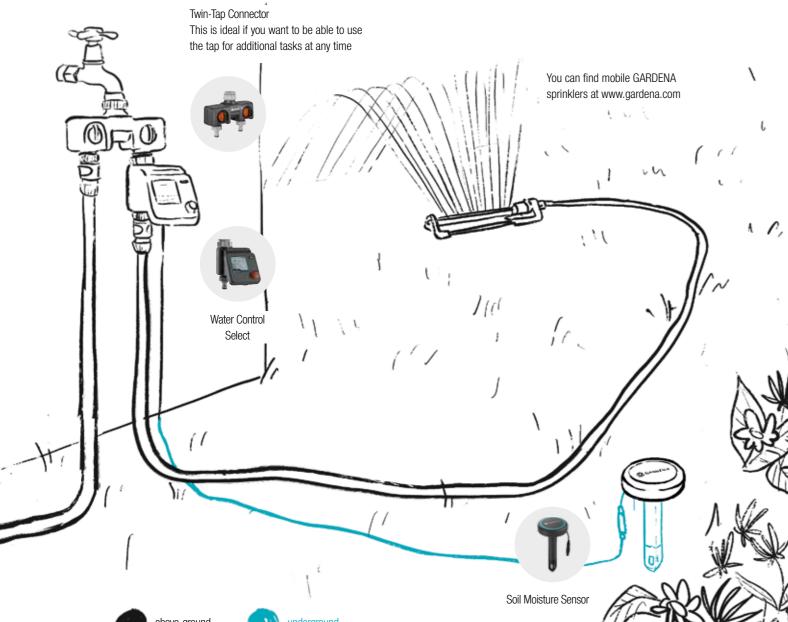
The automatic control system is at the heart of this process. How so? Because the automatic control system controls the irrigation functions in the garden. You have two options: the above-ground Water Control or the underground multi-channel control system.

Water Control – at the water tap

The benefit: is that it's all very simple. You fit the control system straight to a tap and the automatic irrigation process starts in no time at all.

If you wish to water a specific area of your garden, simply connect a GARDENA Micro-Drip-System or your mobile sprinkler to a Water Control system.

The water starts to flow, fully automatically, according to your time settings.



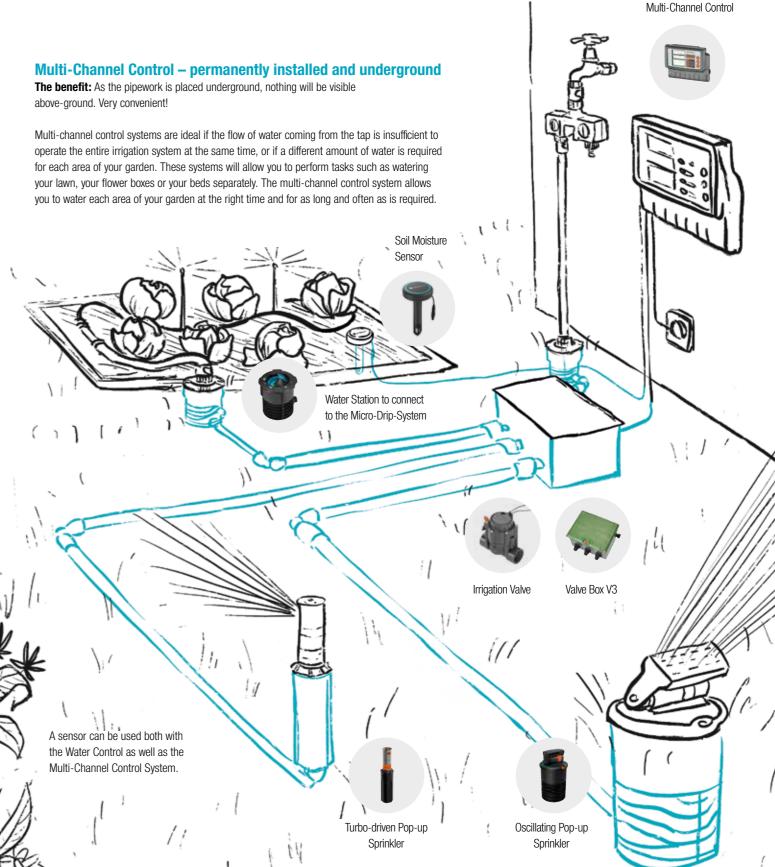


WATER CONTROL

Enhance your automatic irrigation system with our Bluetooth® devices to control your garden via app from up to 10 m.



To unleash the full potential of an intelligent automated garden combine your irrigation system with our GARDENA smart system and control your irrigation system from anywhere.





Get the right model for your needs

GARDENA offers an extensive range of Water Controls, easy to use and reliable. From analogue Water Controls to connected Water Controls. GARDENA offers the right product for every application.



Analogue Water Controls

Benefits

- Detachable Control pannel for convenient programming
- Push and turn principle for easy and intuitive programming
- Option to connect a soil moisture sensor



Water Control Bluetooth®

Benefits

- Easy configuration from up to 10 min distance with GARDENA Bluetooth App
- Easy scheduling with step by step guidance
- Option for soil moisture sensor connection

smart Water Control

Benefits

- Easy configuration from everywhere with GARDENA smart App
- Auto Schedule with scheduling assistance
- smart Home possibility with Apple Home Kit or Amazon Alexa

Special Features



High quality

Weather resistant electronics and corrosion resistant valve. Pressure resistance 0.5–12 bar.



Water-saving

An optional Soil Moisture Sensor prevents scheduled watering if the soil is already sufficiently moist.



Safe Stop

The unique technology prevents watering if the battery level is too low.



"Manual watering" function

Enables manual watering or lets you fill up a bucket without having to unscrew the Water Control.

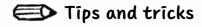
WATER CONTROL 33

Water Control Master

Your analogue watering aid

Plants in smaller pots need watering more frequently, using small amounts of water. Lawns, on the other hand, should be watered less often, but need the water to penetrate the ground, allowing the roots to grow deep. The Water Control Master takes charge of coordinating the different requirements.





For those who appreciate efficiency

You can use the twin-tap connector to connect two connection devices to a tap at the same time.

Fit a GARDENA Water Control or Manual Tap Timer to the distributor. This allows you to keep the other outlet free.



Water Control Bluetooth®

The app configurable Water Control

Connected Water Controls, flexible for all garden areas, can be easily programmed with the smartphone via App. Water Control Bluetooth® – using the GARDENA Bluetooth® App from up to 10 m from the product. smart Water Control in combination with a Gateway – using the GARDENA smart App, can be controlled from anywhere.





EasyApp Control

Easy way to control your watering with the GARDENA Bluetooth® App from up to 10 m.



Auto Schedule

The GARDENA Bluetooth® App helps you with a scheduling assistant to keep your garden just right.



EasyConfig

Easy and guided set up.
The GARDENA Bluetooth® App
provides step-by-step guidance
for setting up and configuring your
Bluetooth® device.



combined with a sensor - irrigation is

paused if the soil is already sufficiently moist

Bluetooth® Connection

Simply pick up your smartphone, open the GARDENA Bluetooth®
App and you're ready to go with zero fuss.

34 WATER CONTROL WATER CONTROL 35

Product comparison

Analogue Water Controls

Flex



Balcony & terraces | micro irrigation

- For watering plant pots/balcony plants
- · Very short watering durations and high irrigation frequencies can be set (up to every four hours)
- Ideal when used with the GARDENA Micro-Drip-System

Irrigation schedules	1
Start	flexible
Duration	1 sec99 min.
Frequency	every 4/6/8/12/24/48/72 hours
Days of the week selectable	-
Watering cycles per day	up to 6 (every 4 hours)
Water-saving option	with Soil Moisture Sensor
Manual watering	•
Art. No.	1890

Select



3 schedules | all garden areas

Application

- For convenient and flexible irrigation
- Three individual irrigation schedules consisting of start time, duration and days of the week - ideal for pre-watering soil, for example
- · Ideal when used with sprinklers or Micro-Drip-System

Irrigation schedules	3
Start	flexible per schedule
Duration	1 min7 hrs. 59 min. per schedule
Frequency	days of the week per schedule
Days of the week selectable	• per schedule
Days of the week selectable Watering cycles per day	per schedule up to 3
	•
Watering cycles per day	up to 3

MultiControl duo



Up to two areas

Application

- · To water two areas separately
- · For example, the lawn behind the house and the flower beds in front of it

Irrigation schedules	2 x 1
Start	flexible per outlet
Duration	1 min3 hrs. 59 min. per outlet
Frequency	Free selection of watering days or in cycles 8h/12h/24h every 2nd/3rd/7th day
Days of the week selectable	• per schedule
Days of the week selectable Watering cycles per day	• per schedule up to 3 (every 8 hours)
	·
Watering cycles per day	up to 3 (every 8 hours)

Master



6 schedules | most flexible settings | up to 6 areas

Application

- To automatically water a larger area in your garden with maximum timing flexibility
- Six individual irrigation schedules consisting of start time, duration and day of the week
- · Water up to six irrigation zones when used with the Water Distributor automatic
- · Ideal when used with sprinklers or Micro-Drip-System

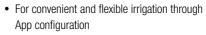
6
flexible per schedule
1 sec4 hrs. per schedule
days of the week
• per schedule
up to 6
with Soil Moisture Sensor
•
1892

Connected Water Controls

Bluetooth®



Control via GARDENA Bluetooth® App | all garden areas



- Three individual irrigation schedules
- · Ideal when used with sprinklers or Micro-Drip-System

App Benefits







rrigation schedules	3
Start	flexible per schedule
Duration	1 min.–8 hrs.per schedule
Frequency	days of the week per schedule
Days of the week selectable	• per schedule
Vatering cycles per day	up to 3
Vater-saving option	with Soil Moisture Sensor
Manual watering	•
Art. No.	1889

smart Water Control



Control via GARDENA smart App

smart Water Control

Irrigation times can be flexibly set and adjusted as required at any time using the GARDENA smart App.

App Benefits







For more information on the GARDEN	Α
smart system, turn to page 40.	

	smart
Irrigation schedules	freely selectable
Start	flexible per schedule
Duration	1 sec10 hrs.
Frequency	Days of the week
Days of the week selectable	•
Watering cycles per day	individually
Water-saving option	with smart Sensor
Manual watering	•
Art. No.	19031 or available in smart system Sets

Extensions for analogue and connected Water Controls



Soil Moisture Sensor

Measures and skips scheduled watering cycles when a preset moisture level is reached. For optimized water saving irrigation when connected to a GARDENA analogue or Bluetooth® Water Control.

Art.	No.	1867	



smart Sensor

Garden Pump.

Detects soil moisture and ground temperature and transmits this information to the GARDENA smart App. Can be used with the smart Water Control, the smart Irrigation Control and the smart Home &

Art. No.	19040

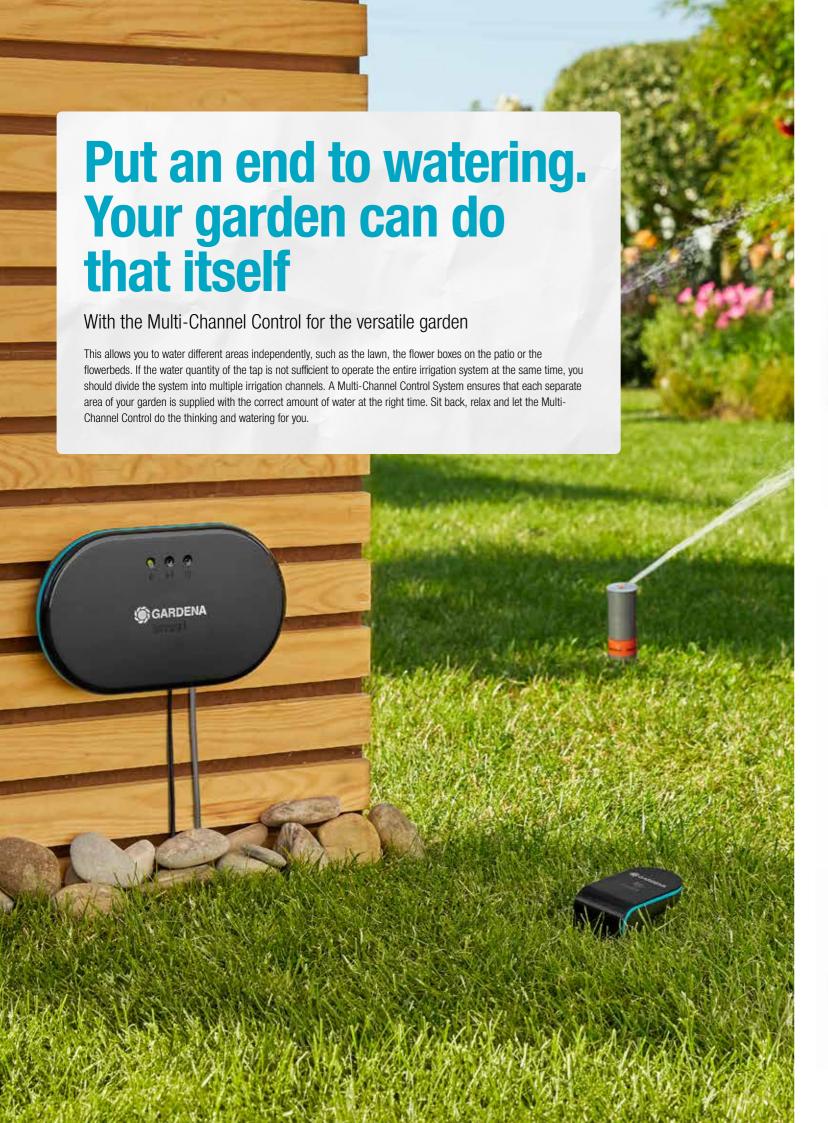


Water Distributor automatic - for 2-6 areas of the garden

Makes a perfect match with Water Control Master. Comes with several irrigation lines, such as for GARDENA sprinklers, Micro-Drip-System or Sprinklersystem. Each line can be activated from the model Master once a day. Ideal for planted areas that require different amounts of water or if the water pressure is too low for simultaneous irrigation.



WATER CONTROL WATER CONTROL



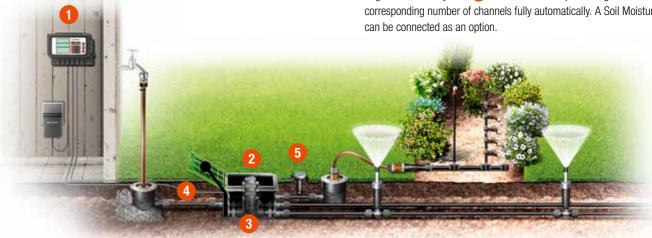
Make the most of every opportunity

Installing a multi-channel solution, such as when planting a new plot or when making things easier for you in an existing garden, helps you to create a host of irrigation options for different areas in your garden. It makes no difference whether you use them now or add them later. The irrigation control system can be used individually and can be expanded if necessary.

Electricity supply available



This is how you control your entire irrigation system from a central location in your garden: The 24 V Irrigation Valves 2 in the Valve Box 3 get signals over the Connection Cables 4 to open and close the water flow from the GARDENA Irrigation Control System 1. You can control up to 6 Irrigation Valves and the corresponding number of channels fully automatically. A Soil Moisture Sensor 5



No electricity supply available





Thus you can control any number of irrigation channels app configured, automatically and wireless with the GARDENA Bluetooth® App 1: Just enter the data and transmit them via the App to the Irrigation Valve. The Irrigation Valve 9 V Bluetooth® 2 fits into a GARDENA Valve Box 3. A Soil Moisture Sensor 4 can be connected to the Controller as an option. Battery operation makes GARDENA Irrigation Valves independent from the power supply. You can install the valve boxes anywhere in the garden.





EasyApp Control

WATER CONTROL



Auto Schedule





EasyConfig



Bluetooth® Connection

Product overview



GARDENA smart system

Start with the application of your choice

The GARDENA smart system offers much more than just smart products for irrigation and lawn care: The GARDENA smart App is constantly being further developed and helps provide the garden with an optimal supply of water, such as by means of a library of plants containing more than 2000 plants, by taking data about the weather and from sensors into account during the watering process, or by providing helpful tips about the garden.



300





smart Water Control – at the tap

Water a single garden area with tap water. The smart Water Control lets you remotely control your garden taps for perfect results – simply controlled via the GARDENA smart App.

Using it with a smart Sensor, you can save water and ensure the right level of watering.





smart Irrigation Control – permanently installed and underground

Effortlessly water multiple areas of your garden with an underground irrigation system. The smart Irrigation Control manages up to six irrigation valves — each of which can be independently controlled via the GARDENA smart App.

Using it with a smart Sensor, you can save water and ensure the right level of watering.





smart Sensor

Measure the soil moisture and temperature in your garden or in planters and check it in the GARDENA smart App.
Using the smart Sensor with a smart Water Control, a smart Irrigation Control or a smart Pump, you can save water and ensure the right level of watering.





smart Gateway

Connecting your GARDENA smart App to your smart garden, via your home WiFi or LAN cable.





smart Robotic Lawnmowers

Mow the lawn automatically the smart way. With the GARDENA smart App, you can control your smart SILENO Robotic Lawnmower to achieve a carpet-like cut for all lawn sizes up to 1,500 m². NEW: Now with unique LONATM Intelligence, taking smart lawn care to the next level.





smart Power Adapter

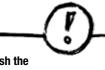
Plug any electrical device into the GARDENA smart Power Adapter, e.g. your lights or fountain pumps and switch them on or off whenever you want, wherever you are via the GARDENA smart App. Keep your garden looking smart day and night.





smart Pump

Use rain water for your domestic needs with the smart Automatic Home & Garden Pump. Controlled via the GARDENA smart App, you can water your garden based on pre-set schedules, or even provide water to your toilet and washing machine. Using it with a smart Sensor, you can save water and ensure the right level of watering.



To establish the connection to the smart system, you need the GARDENA smart App and the smart Gateway

Product overview see page 53

SMART SYSTEM

The smart system stars

Use the GARDENA smart App to control what happens in your garden

smart **Water Control**



What for

For small gardens

· For one irrigation area

· Connected directly to the tap

• GARDENA smart App helps to save

water, because it will never over-

· Can be used with a smart Sensor

Water Control

Manually switch on/off directly at the

smart **Irrigation Control**



What for

- · For diversified gardens with different irrigation areas and tasks
- For up to six completely independent irrigation zones

What for

smart

Sensor

moisture exactly where it matters most: near the root of the plant

Measures temperature and soil

- · Controls an underground, permanently installed irrigation system with 24 V valves in a simple, flexible and clear way
- Usefully combines systems such as Micro-Drip-System and Sprinklersystem
- · Can be used with up to six smart Sensors

- · Planted beside the plants in the soil
- Shows the measured values from your own garden via the GARDENA smart App
- The app uses the measured values, together with other parameters, to control irrigation using smart Water Control or Irrigation Control
- · Saves water, as the plants are only watered when they really need it

Home and Garden Pump



What for

- · Can be used as a time-controlled garden pump with individual watering times
- · For service water supply in the house, such as to flush toilets or for the washing machine

- · Integrated Water Control for time-controlled garden irrigation
- · Quickly and quietly discharges up to 5000 litres per hour. Sends information about the pressure. flow rate or any faults via the **GARDENA** smart App
- Explains how to troubleshoot any
- Can be left in the garden regardless of the weather conditions
- · Can be used with a smart Sensor



EasyApp Control

Easy way to control your garden from anywhere with the GARDENA smart App. Take care of your garden wherever you are.



GARDENA smart App

Your entire garden is always at your fingertips with the free GARDENA smart App. Mowing the lawn and watering has never been so convenient. Even lights or other

• Reliable – the wizard guides you step-by-step to the best watering programme.

electrical devices in the garden are now easy to control.

• Intelligent – the GARDENA smart App provides intelligent irrigation, frees you up to do other things and does your garden good. Relaxed – you will be instantly absolved of all watering duties!

• Environmental – your plants are always provided with the ideal

• Economical! - you save on water and therefore on costs.

Why use the GARDENA smart App?

water supply that they need to thrive.

Explore the key features of the GARDENA smart App

EasyConfig

Easy and guided set up. The GARDENA smart App provides step-by-step guidance for setting up your own smart system. With clear illustrations, tips and helpful setup wizards.



Auto Schedule

The GARDENA smart App helps you with a scheduling assistant to keep your garden just right. All under control: when to mow your lawn. water your plants and more, wherever you are, with remote scheduling.



App Store

Get IT ON Google Pla

Sensor Control

The smart Sensor tracks temperature and soil moisture in your garden to optimise the irrigation and save water.



Tips and tricks

You already have an irrigation system?

The smart irrigation Control also quite simply turns existing (older) irrigation systems into a smart system:

- Simply swap the existing Irrigation Control for the smart Irrigation Control and smart Gateway
- · Works with virtually all standard 24 V irrigation valves, and not just GARDENA ones
- · This means you can also very simply integrate irrigation systems from other brands into the GARDENA smart system, where they can be smart controlled



smart Home

smart Home meets smart garden. Integrate smart garden devices into your Apple HomeKit or control them by voice using Amazon Alexa.



Weather Forecast

Rain is coming? The GARDENA smart App adapts your schedules based on weather data.



Plant Library

Discover everything you need to know about plants, from when they bloom to the climate they thrive in.



LONA™ Intelligence

The next level of smart lawn care: Al-based technology with location tracking that learns, maps and adapts to individual gardens. Only featured in smart SILENO Robotic Lawnmowers.



Product overview

NatureUp!



Sets with automatic irrigation

MADE IN GERMANY	NatureUp! Basic Vertical Set with Irrigation	NatureUp! Vertical Watering Set Tap	NatureUp! Corner Watering Set Tap	NatureUp! Extension Watering Set Water Container¹
Contents	5 vertical planters (including 5 covers and 20 clips), 1 base plate, 2 fixings, 1 NatureUp! Vertical Watering Set Tap (13156)	1 Master Unit 1000, 1 Shut-Off Valve 4.6 mm (¾16"), 6 Connectors 4.6 mm (¾16"), 7 T-Pieces 4.6 mm (¾16"), 1 Cross Fitting 4.6 mm (¾16"), 2 L-Pieces 4.6 mm (¾16"), 10 Plugs 4.6 mm (¾16"), 9 Drip Irrigation Lines 65 cm, 8 Supply Pipes 15.5 cm, 1 x Supply Pipe 150 cm (all Pipes 4.6 mm (¾16")	1 Master Unit 1000, 1 Shut-Off Valve 4.6 mm (¾6"), 12 Connectors 4.6 mm (¾6"), 10 T-Pieces 4.6 mm (¾6"), 1 Cross Fitting 4.6 mm (¾6"), 13 L-Pieces 4.6 mm (¾6"), 13 Plugs 4.6 mm (¾6"), 12 Drip Irrigation Lines 14 cm, 11 Supply Pipes 15.5 cm, 3 Supply Pipes 4 cm, 9 Supply Pipes 8.5 cm, 1 x Supply Pipes 150 cm (all Pipes 4.6 mm (¾6")	Water Control for pump with integrated timer and 14 selectable programs, integrated AUTO STOP function switches the pump off as soon as the water container is empty. 14 V low voltage pump with dirt filter, 1 inline drip head 2 I
Number of plants	For up to 15 plants	For up to 27 plants	For up to 12 plants	-
Art. No.	13151	13156	13157	13158

Outdoor Cooling Mist Set







	III Praire		
	city gardening Outdoor Cooling Mist Set automatic	city gardening Micro Mist Nozzle	
Contents	Water Control Easy ^{Fus} , 10 m hose, 3.5 mm internal diameter, 7 Micro Mist Nozzles (incl. 1 Micro Mist Nozzle with water stop), 13 fixing clamps, 13 screws, coupling with control valve and hose connector	3 replacement Micro Mist Nozzles	
Art. No.	13137	13136	

Holiday and Balcony Watering













Holiday Irrigation Set

Automatic watering whilst you are on holiday for up to 36 pot plants





Automatic holiday watering for up to 36 pot plants, 10.5 I extendable water reservoir included in the scope of delivery





city gardening Balcony Watering

Automatic holiday watering for flower boxes up to 5-6 m in length or 25 plants

Use outdoor/indoor	Indoor	Indoor	Outdoor
Water connection required	-	-	-
Power connection required	•	•	•
Art. No.	1265	13366	1407











The solar-powered irrigation set for balcony and terrace for up to 20 plants





Solar-powered Irrigation

AquaBloom Water Reservoir Set

The solar-powered irrigation set for balcony

and terrace for up to 20 pot plants, 10.5 I





Water Reservoir^{1, 2}

10.5 I extendable water reservoir

		scope of delivery	
Use outdoor/indoor	Outdoor	Outdoor	Outdoor
Water connection required	_	-	-
Power connection required	_	-	-
Art. No.	13300	13301	13367

45 44 PRODUCT OVERVIEW PRODUCT OVERVIEW ¹ Plastic elements made from >80 % recycled plastic

Micro-Drip-System System start and accessories



Pipes and accessories

MADE IN GERMANY	5 Connecting Pipe				New!		
			6 Supply Pipe		7 Shut-Off Valves ¹		
Usage	Central supply line for the micro-drip system, can be laid above-ground or underground		Feed pipe for drippers and spray nozzles, can be laid above-ground or underground		Shut-off device for individual strands of the connecting pipe 13 mm (½") (Art. No. 1346/1347)	Shutting off individual pipelines 4.6 mm (3/16") (Art. No. 1348/1350)	
	13 mm (½")	13 mm (½")	4.6 mm (³ / ₁₆ ")	4.6 mm (³ / ₁₆ ")	13 mm (½")	4.6 mm (³ / ₁₆ ")	
Contents	15 m	50 m	15 m	50 m	1 piece	2 pieces	
Art. No.	1346	1347	1350	1348	8358	13217	

Pipe pegs

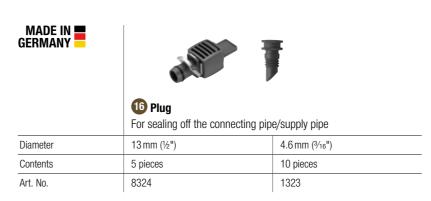
MADE IN GERMANY	T		New!		<i>></i>		
En rue	8 Pipe Clips		9 Pipe Pegs¹ The Pipe Peg is used to route and securely fasten the supply pipe in the ground.		10 Pipe Guide To fasten the pipes in the ground.		
Usage	For fastening pipes in hard ground; defined spray nozzle fastening in connecting pipes/supply pipes. Adjusts the height of the spray nozzles in connection with a T-piece for spray nozzles and extension pipes		For guiding and fastening the connecting pipe/ supply pipe		For fastening pipes in soil; defined spray nozzle fastening in the connecting pipe/supply pipe. Adjusts the height of the spray nozzles in connection with a T-piece for spray nozzles and extension pipes		
	13 mm (½")	4.6 mm (³ / ₁₆ ")	13 mm (½")	4.6 mm (³ / ₁₆ ")	13 mm (½")	4.6 mm (³ / ₁₆ ")	
Contents	2 pieces	5 pieces	10 pieces	15 pieces	3 pieces	3 pieces	
Art. No.	8380	8379	13208	13218	8328	8327	

Micro-Drip-System Connection technology

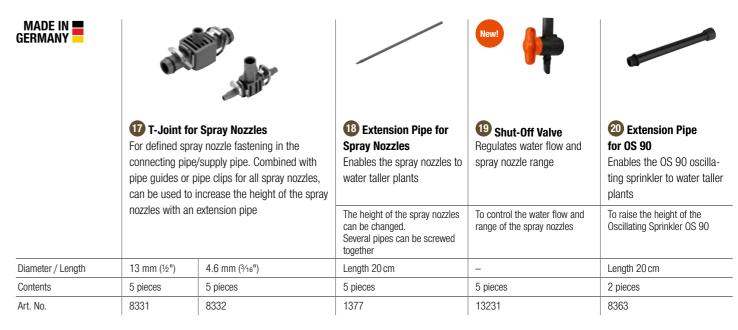
Pipe connectors

MADE IN GERMANY				13 T-pieces Junction for the connecting pipe/supply pipe		14 L-pieces For accurately changing the direction of the connecting pipe/supply pipe		15 Connectors For extending the connecting pipe/ supply pipe	
4-Way Co Junction for the pipe/supply pig		the connecting	12 Reducing T-Joint Adapter from the connecting pipe to the supply pipe						
Diameter	13 mm (½")	4.6 mm (³ / ₁₆ ")	13 mm (½")	13 mm (½")	4,6 mm (³ / ₁₆ ")	13 mm (½")	4.6 mm (³ / ₁₆ ")	13 mm (½")	4.6 mm (³ / ₁₆ ")
Contents	2 pieces	10 pieces	5 pieces	2 pieces	10 pieces	2 pieces	10 pieces	3 pieces	10 pieces
Art. No.	8339	8334	8333	8329	8330	8382	8381	8356	8337

Plug



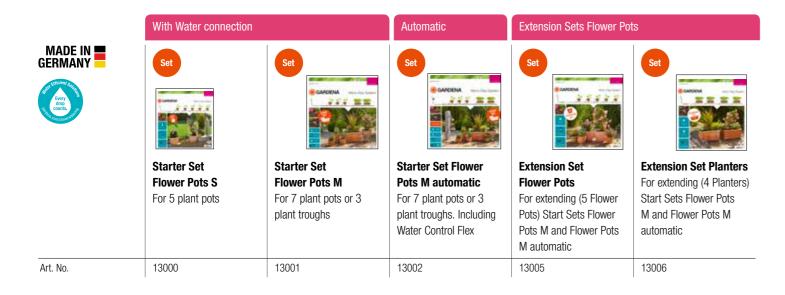
Accessories for spray nozzles and sprinklers



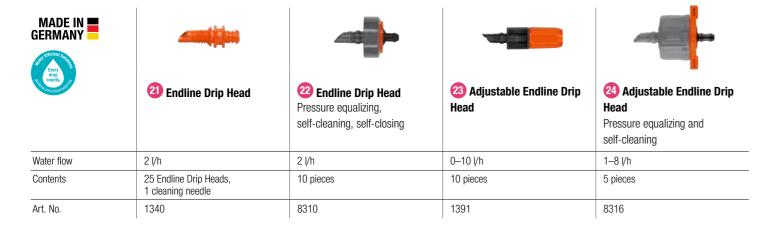
46 Plastic elements made from >80 % recycled plastic PRODUCT OVERVIEW PRODUCT OVERVIEW 47

Micro-Drip-System for Flower Pots and Planters

Starter Sets



Endline drip heads



Inline drip heads for plant troughs



Micro-Drip-System for Planted areas

Starter Sets



Starter Set Planted Areas



For 40 m² flower/kitchen garden beds

Art. No. 13015



Start Set for Raised Beds and Beds automatic

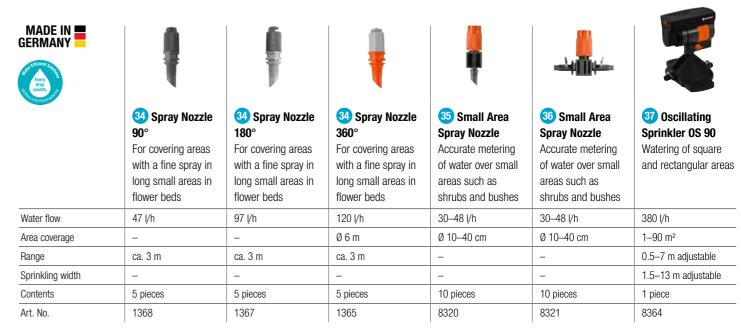
For a bed/raised bed with up to 35 plants including Water Control Flex

Art. No. 13016

Spray nozzles for planted beds



Spray nozzles and sprinklers for planted beds



48 PRODUCT OVERVIEW PRODUCT OVERVIEW 49

Micro-Drip-System for rows of plants

Starter sets drip irrigation line

	to 15 m	to 25 m	Automatic	to 50 m	to 50 m underground
	Set	Set	Set	Set	Set
	Start Set for Rows of Plants S Above Ground Drip Irrigation Line 15 m row of plants or sensitive vegetables/ ornamental plants	Start Set for Rows of Plants M Above Ground Drip Irrigation Line 25 m plant row (e. g. hedges or planted borders)	Start Set for Rows of Plants M automatic Above Ground Drip Irrigation Line 25 m plant row (e. g. hedges or planted borders)	Start Set for Rows of Plants L Above Ground Drip Irrigation Line 50 m plant row (e. g. hedges) or planted borders	Start-Set Drip Irrigation for Rows of Plants Below Ground Drip Irrigation Line For boundary planting or lawn areas
Internal pipe diameter	4.6 mm (3/16")	13 mm (½")	13 mm (½")	13 mm (½")	13.7 mm
Contents	With Master Unit and Pipe Peg	With Master Unit and Pipe Peg	With Water Control, Master Unit and Pipe Peg	With Master Unit	With Master Unit
Art. No.	13010	13011	13012	13013	1389

Extension sets drip irrigation line

	above-ground	above-ground			
	Extension for Rows of Plants Above Ground Drip Irrigation Line 4.6 mm (¾/16") For extending the starter set for plant rows S	Extension for Rows of Plants Above Ground Drip Irrigation Line 13 mm (½") For extending the starter set for plant rows M	Extension Drip Irrigation for Rows of Plants Below Ground Drip Irrigation Line 13.7 mm For the extension of the Below Ground Drip Irrigation Line for boundary plants or lawn areas		
Internal pipe diameter	4.6 mm (³ / ₁₆ ")	13 mm (½")	13.7 mm		
Compatible with art.	13010	13011 / 13012 / 13013	1389		
Contents	15 m Drip line, without fittings	25 m Drip line, without fittings	50 m Drip line, 1x Connector and 1x end piece		
Art. No.	1362	13131	1395		

Couplers for 13.4-mm drip pipes underground can be obtained via the Service team

50 PRODUCT OVERVIEW

Underground Water distribution

System Start and Pipes



Connections and Pipe connectors

	Connections	Connections			Pipe connectors				
MADE IN GERMANY	Connector 25 mm x ¾" female thread	Connector 25 mm x 1" female thread	Connector 25 mm x 1" male thread	T-Piece 25 mm	L-Piece 25 mm	Connector 25 mm	Reduction Connector 32–25 mm	End-Piece 25 mm	
Usage	For pipe connection to the Connecting Point, the Water Station, the Regulator and Shut off Valve, the Central Filter, the Popup Sprinkler S 80/300 and for directly connecting the sprinkler system to the domestic water supply	For pipeline connection to the Valve Boxes V1 and V3 and for directly connecting the sprinkler system to the domestic water supply	For pipe connection to the irrigation valves and for directly connec- ting the sprinkler system to the domestic water supply	Pipe branching for Connecting Pipe	Direction change of the Connecting Pipe	Extension for the Connecting Pipe	Connection from 32 mm to 25 mm Connecting Pipe	Terminating the Connecting Pipe	
System	Pipeline, Sprinklersystem	Sprinklersystem	Sprinklersystem	Pipeline, Sprinklersystem	Pipeline, Sprinklersystem	Pipeline, Sprinklersystem	Pipeline, Sprinklersystem	Pipeline, Sprinklersystem	
Art. No.	2761	2762	2763	2771	2773	2775	2777	2778	

Accessories for Pipeline and Sprinklersystem

MADE IN E	"Profi" Maxi-Flow System Connector Set	"Profi" Maxi-Flow System Connection Set	Adapter Piece	Drain Valve	Drain Valve Set
Usage	For the connection of the Pipeline and the Sprinkler- system to the water tap	Complete set for connection of Pipeline and Sprinkler-system to the water supply	For creating a permanently pressure-resistant hose connection	For draining water automatically when shutting down the system (Connection Art-No. 2790, 2761)	For making GARDENA products and systems manually frost proof
Art. No.	1505	2713	1513	2760	2770

PRODUCT OVERVIEW 51

Sprinklersystem

Pop-up Sprinklers



	T models			
MADE IN GERMANY				
	Turbo-driven Pop-up Sprinkler T 100 ¹	Turbo-driven Pop-up Sprinkler T 200 ¹	Turbo-driven Pop-up Sprinkler T 380 ¹	Pop-up Oscillating Sprinkler OS 140
				← ‡ →
Watering areas	Up to 100 m ²	Up to 200 m ²	Up to 380 m ²	Up to 140 m ²
Watering sector	Fully adjustable from 70–360°	Fully adjustable from 25–360°	Fully adjustable from 25–360°	-
Range	Can be adjusted from 4–6 m	Can be adjusted from 5–8 m	Can be adjusted from 6–11 m	2–15 m
Connection thread	½" -female thread	½" -female thread	3/4" -female thread	34" -female thread
Art. No.	8201	8203	8205	8223

Connection for Pop-up Sprinklers and Accessories

MADE IN GERMANY	Sprinkler Connection	Sprinkler Connection 3/4" x 3/4" 1	Sattle Clamp 25 mm	Cutter for Sattle Clamp %" thread
Use	For flexible "outline" sprinkler connection in combination with the Sattle Clamps or the T/L-Pieces with female thread 1552 1553 1554 1555 1569 8201 8203	For flexible "outline" sprinkler connection in combination with the Sattle Clamps or the T/L-Pieces with female thread 8205 8223	Sprinkler connection within the run of the pipe, in combination with the flexible connectors 2739 and 2740, for flexible outlining of the Pop-up Sprinklers S 30, S 50, S 80, S-ES and S-CS, Turbo-driven Pop-up Sprinklers T 100, T 200 and T 360	Simple pipe perforation without drilling machine
Art. No.	2739	2740	2728	2765

Connections for Pop-up Sprinklers

MADE IN E	½" male thread			34" male t	34" male thread			³ 4" female thread			
	L-Piece 25 mm	Angle Piece 25 mm	T-Piece 25 mm	L-Piece 25 mm	Angle Piece 25 mm	T-Piece 25 mm	Connector 25 mm	T-Piece 25 mm	L-Piece 25 mm	Angle Piece 25 mm	
Connection for Art. No.	15521	1553 1554 15 8201 8203	55 I 1569	8205 8223	8205 8223	8205 8223	2722 8250 2724 1510 1566 8254	1566	5 2739 2740	12760	
Art. No.	2780	2782	2786	2781	2783	2787	2761	2790	2784	2764	

GARDENA smart system – Irrigation



Starter sets

Jul 101 0010				
	Irrigation Control		Multi-Channel	Home & Garden Pump
reddot award 2016 winner				
	smart Sensor Control Set Water plants using the smart App	smart Water Control Set 1 Water plants using the smart App	smart Irrigation Control Sensor Set Water plants using the smart App	smart Automatic Home & Garden Pump 5000/5 Set Automatic utilisation of non-potable water – for garden irrigation or domestic use
Contents	smart Water Control, smart Sensor, smart Gateway	smart Water Control, smart Gateway	smart Irrigation Control, smart Sensor, smart Gateway	smart Automatic Home & Garden Pump 5000/5, smart Gateway
Art. No.	19202	19103	19209	19106

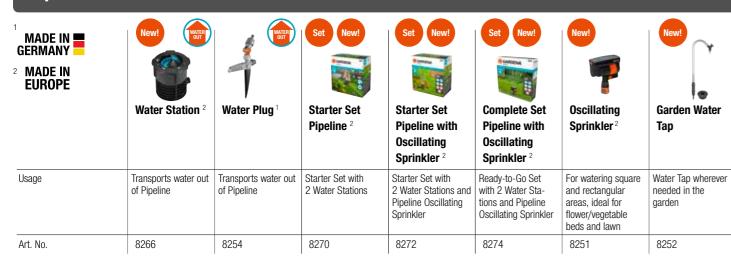
Extensions – Irrigation

More GARDENA smart system products can be found at: www.gardena.com/smart

1	Combined with all smart system Sets								
reddot award 2016 winner	(0:	•	7						
	smart Water Control ¹	smart Irrigation Control	smart Sensor	smart Automatic Home & Garden Pump 5000/5					
Useable for	all smart system Sets, Water Distributor automatic (Art. No. 1197)	24 V Irrigation Valve (Art. No.1278), smart Sensors, all smart system Sets	all smart	system Sets					
Requirements		Gateway, (Wi-Fi) router and Interne	et access – smartphone, tablet or pc						
Art. No.	19031	19032	19040	19080					

PRODUCT OVERVIEW PRODUCT OVERVIEW 53

Pipeline



Irrigation Control



reddot award 2016

Watering schedules

Energy supply

Watering duration

Watering frequency

Can be used with

Art. No.

Art. No.

54





Flex

Manual Tap

Practical: switches

off automatically after the defined

running time

Mechanical

5 –120 min.

1169

1867

Timer 1



Short cycles for

ideal for use

watering pot plants

with the GARDENA

Micro-Drip-System,

innovative turn and

push feature

1 x 9 V alkaline

(not included)

1 sec.-99 min.

Every 4/6/8/12/

to 6 times daily

(Art. No. 1867)

1890

24/48/72 hours, up

Soil Moisture Sensor

battery



Individual setting

schedules, intuitive

operation with just

1 x 9 V alkaline

(not included)

1 min.-7 hrs. 59

min. per schedule

Days of the week,

up to 3 times per

(Art. No. 1867)

1891

Soil Moisture Sensor

battery

options of three

independent

one button

Select 1



Water Control

Bluetooth®

Control your

watering with

the GARDENA

Bluetooth® App

from up to 10 m

(Art. No. 1867)



pendent schedules,

intuitive operation

with just one button



options. Fully





MultiControl smart Water Master duo 1 Control 1, 2 Individual setting Flexible thanks to options of six indefree programming

Irrigation times can be flexibly set and adjusted as required automatic operation at any time using the GARDENA smart with soil moisture

		sensor	Арр
3	6	1 (per outlet)	freely selectable
1 x 9 V alkaline battery (not included)	1 x 9 V alkaline battery (not included)	1 x 9 V alkaline battery (not included)	3 x AA 1.5 V alkaline batteries (LR6, not included)
1 min.–8 hrs. per schedule	1 min.–4 hrs. per schedule	1 min.—3 hr 59 min (per outlet)	1 min.–10 h
Days of the week per schedule	Days of the week, up to 6 times per	Days of the week or every 2 nd / 3 rd /	Days of the week

Soil Moisture Sensor Water Distributor Soil Moisture Sensor | all smart system automatic (Art. No. (Art. No. 1867) Sets, smart Sensor 1197) Soil Moisture (Art. No.19030), Sensor (Art. No. Water Distributor 1867) automatic (Art. No. 1197)

1874

Accessories





Soil Moisture Sensor For optimised water saving irrigation. Connection to a GARDENA Water Control. Measures soil moisture and skips scheduled watering when a preset moisture level is reached





1889



1892





smart Sensor Measures soil moisture and near-ground temperature and includes the soil moisture in the watering

Water Distributor automatic Fully-automatic control of up to 6 accessories, one after the other, with Water Control Master (not included)

1197

Multi-Channel Control

Control

24 V | Electricity supply

		8	smart
	Classic Irrigation Control System 4030 Controlling of up to 4 Irrigation Valves 24 V, for indoor and outdoor use	Classic Irrigation Control System 6030 Controlling of up to 4 Irrigation Valves 24 V, for indoor and outdoor use	smart Irrigation Control Water multiple areas via smart App, control six 24 V Irrigation Valves per device
Number of Irrigation Valves 24 V which can be controlled	4 (24 V)	6 (24 V)	6 (24 V)
Individual irrigation schedules per valve	3	3	Configured individually via smart App
Watering duration per schedule	1 min.–3 h 59 min., centra	ally adjustable by 0–200 %	Configured individually via smart App
Control via smart App	-	-	•
Art. No.	1283	1284	19032

Accessories

MADE IN

GERMANY =

24 V | Electricity supply



Irrigation Valve 24 V 1

Irrigation Control System

via cable

1278







a GARDENA Irrigation

Control

1280

Connection Cable 24 V Cable Clip 24 V Connection to a GARDENA Connection of up to 6 For connecting the Irrigation Valves 24 V to Connec-tion Cable 24 V to an Irrigation Valve 24 V with a water-tight connection when using Valve Box V1

1282



Irrigation Valve 9 V Bluetooth® 1 Battery operated valve control of irrigation systems without 230 V mains connection. Simple configuration with the GARDENA Bluetooth® App. 6 individual schedules 1285

9 V I Battery powered



1287

Control Unit 9 V Bluetooth® Battery operated valve control through App configuration. Accessorie to upgrade existing GARDENA 9 V installation with Art. 1251

Valve Box V11

9 V or 24 V

1254

For 1 Irrigation Valve

Valve Boxes



Art. No.

Art. No.



Valve Box 9 V

Bluetooth® Set

1286

Valves 9 V Bluetooth®

Valve Box including 3 Irrigation









C
V
F
V

Connector for Valve Boxes V3 For connecting two Valve Boxes V3 2758

PRODUCT OVERVIEW

1255



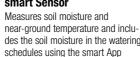


1868





19040





19031

PRODUCT OVERVIEW

DORSOLF

Micro-Drip-System

Let's get started. How to build your own Micro-Drip-System

You'll be amazed: Assembling your own MDS solution is easier than you think. Work step by step and you will very quickly create your individual and convenient irrigation solution.



System start

Start off by choosing the automatic control system and then the master unit. The master unit reduces the pressure and filters the water.

For flower pots

For pots or flower boxes, choose the pipe solution and drip heads marked in pink.

For planted areas

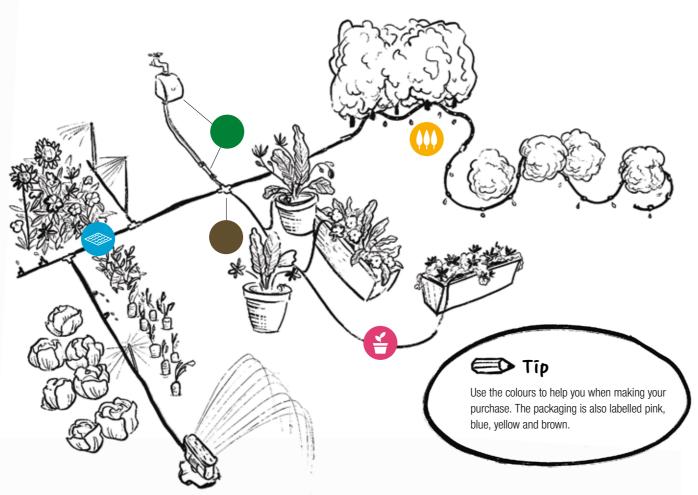
For this, choose the pipes. nozzles and sprinklers marked in blue.

For rows of plants

For this, choose the pipes marked in yellow. Here are some options for underground and above-ground installation. You can also buy the practical sets marked in yellow and supplement them with extension pipes.

Connection technologies

To help you connect the pipes, you can choose from items such as four-way couplings, T-pieces, L-pieces. This means you can create your own Micro-Drip-System to suit your requirements.



1. Types of installation

Installation type 1

4.6 mm und 13 mm pipes

This installation type uses a combination of the system for • flower pots with the system for planted areas and/or orows of plants. (combination 4.6 mm + 13 mm)



Installation type 2

4.6 mm pipes

This installation type uses the system for • flower pots and plant troughs and/or orows of plants. (4.6 mm pipe only)





Installation type 3

13 mm pipes

This installation type uses the system for oplanted areas and/or orows of plants.

(13 mm pipes and/or 13 mm drip irrigation line above-ground). With this installation type, you insert the drip heads and/or spray nozzles directly into the 13 mm pipe.



Positioning the master unit

The master unit is a key component of the Micro-Drip-System. This ready-to-use master unit reduces the input pressure and filters the water. If you position the master unit in the middle of the pipe run, you can double the length of the pipe system (see table 58).

Master unit is positioned at the system start

Master unit is positioned in the middle of the pipe run





GARDENA MICRO-DRIP-SYSTEM PLANNER GARDENA MICRO-DRIP-SYSTEM PLANNER

2. Assembling your Micro-Drip-System

Three things you need to know:

- 1. The master unit is the starting point and defines the connection value.
- 2. The master unit defines the amount of water available in the system.
- 3. The connection value of the system must be greater than the consumption value.

Determining consumption values (for larger/combined systems)

Irrigate several areas of the garden in combination. Combine your different applications.

Installation type 1

The delivery device is installed in the 4.6 mm pipe and the supply is enabled via the 13 mm pipe.

13 mm (½") Connecting Pipe --- 4.6 mm (3/16") Supply Pipe

Installation type 2

The delivery device is installed in the 4.6 mm pipe, supply via the 4.6 mm pipe.



Installation type 3

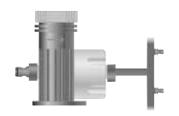
The delivery device is installed directly in the 13 mm pipe.



Connection values

		Installation of the base	e unit at the start of the pipe	Installation of the base	unit in the centre of the pipe
		1 (0000) 10-	-		I.
		Master Unit 1000	Master Unit 2000	Master Unit 1000	Master Unit 2000
Installation type 1	Recommended connection value Pipe length**	500 13 mm max. 40 m 4.6 mm max. 15 m	1000 13 mm max. 40 m 4.6 mm max. 15 m	1000 13 mm max. 2 x 30 m 4.6 mm max. 15 m	2000 13 mm max. 2 x 30 m 4.6 mm max. 15 m
Installation type 2	Recommended connec- tion value Pipe length**	50 max. 15 m	50 max. 15 m	100 max. 15 m	100 max. 15 m
Installation type 3	Recommended connec- tion value Pipe length**	500 max. 40 m	1000 max. 40 m	1000 max. 2 x 30 m	2000 max. 2 x 30 m

Example Calculation



Recommended installation type 1

Determine connection value

- 1. Determine the number and type of delivery devices (spray nozzles/drip heads/drip line)
- 2. Determine the consumption 3. Add the values to obtain values of the system (number of delivery devices x consumption value in the table)
- the sum total of the consumption values. If the consumption value of the system is less than the connection value, the system can be operated smoothly.

Consumption values

Art. No.	Designation	Accesso	Accessory consumption values		Planned number	Total consumption value
Installation		M1	M2	М3		
1340/8310	Endline Drip Head	2	2	5		
1391	Adjustable Endline Drip Head	10	10	25		
8316	Adjustable Endline Drip Head	8	8	20		
8343/8311	Inline Drip Head	4	4	_	12 pc.	48
8392	Adjustable Inline Drip Head	20	20	-		
8317	Adjustable Inline Drip Head	16	16	-		
8320	Small Area Spray Nozzle	-	-	70		
8321	Small Area Spray Nozzle	70	25	_		
1365	Spray Nozzle 360°	125	100	100		
1367	Spray Nozzle 180°	110	100	80		
1368	Spray Nozzle 90°	85	50	65		
1370	Micro Strip Sprinkler	70	50	70		
1372	Endline Micro Strip Sprinkler	70	50	70		
1371	Micro Mist Nozzle	40	25	40		
1369	Micro Rotor Sprinkler 360°	110	100	80	1 pc.	80
1396	6-Pattern Spray Nozzle	125	50	60		
8364	Oscillating Sprinkler OS 90			1000		
13010/1362	Drip line 4.6 mm (3/16")***	4	4	-		
13001/13002 13013/13131	Drip line 13 mm (½")***	-	-	10	1.5 metres	15
				Total		203

^{*} The connection value of each half of the line is half the connection value when the base unit is installed in a central position.

GARDENA MICRO-DRIP-SYSTEM PLANNER GARDENA MICRO-DRIP-SYSTEM PLANNER

^{**} Specification of the maximum pipe length is used as a guideline value only. It is dependent on the number of connected delivery devices in each case.

^{***} Consumption value per metre of drip line.

3. Planning and purchasing

Use pens and paper to draw up your plan

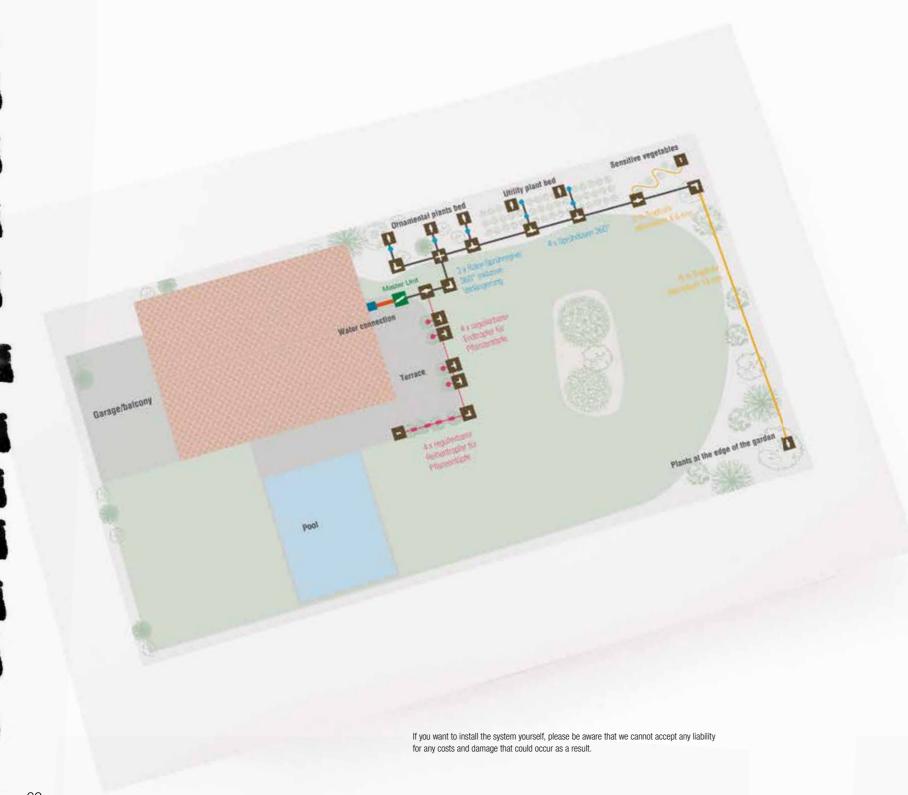
- 1. Draw your plot precisely to scale.
- 2. Draw the planted areas (e.g. hedge, bed, flower boxes etc.).
- 3. Draw all the individual plants.

Our tip: Use our online guides

Create a sketch of your garden online

You can use "my garden" to create your personal garden sketch. This provides you with a clean basis for any manual drawings you subsequently create for your Micro-Drip-System.

www.gardena.com/mygarden



So we continue, step by step

When plotting your sketch, it's best to use different colours and icons. This will help create the best overview.

1. Mark water source for $4.6 \text{ mm } \frac{3}{16}$ " or $13 \text{ mm } \frac{1}{2}$ "



Water supply

2. Plot Master Unit



Master Unit

Decide where you want to install the master unit. Either right at the beginning as system start or in the middle of the pipe run. If the system start is placed far away from the water connection, use a pipeline or OGS hose to bridge the gap between the tap and the master unit. This means you will prevent a loss in water pressure.

3. Sketch the chosen connecting pipes and distribution pipes in colour

Micro-Drip-System for Plant pots and -troughs

Micro-Drip-System for Planted areas

Micro-Drip-System for Rows of plants

4. List the chosen drips heads and nozzles.

Make a note of what number of each you will need.

5. Register connection parts for 4.6 mm % or 13 mm % "

4-Way Coupling

Conn

T-pie

L

L-piece

+

Reducing T-Joint

F

6. Register reinforcement for 4.6 mm 3/16" or 13 mm 1/2"

ripe reg



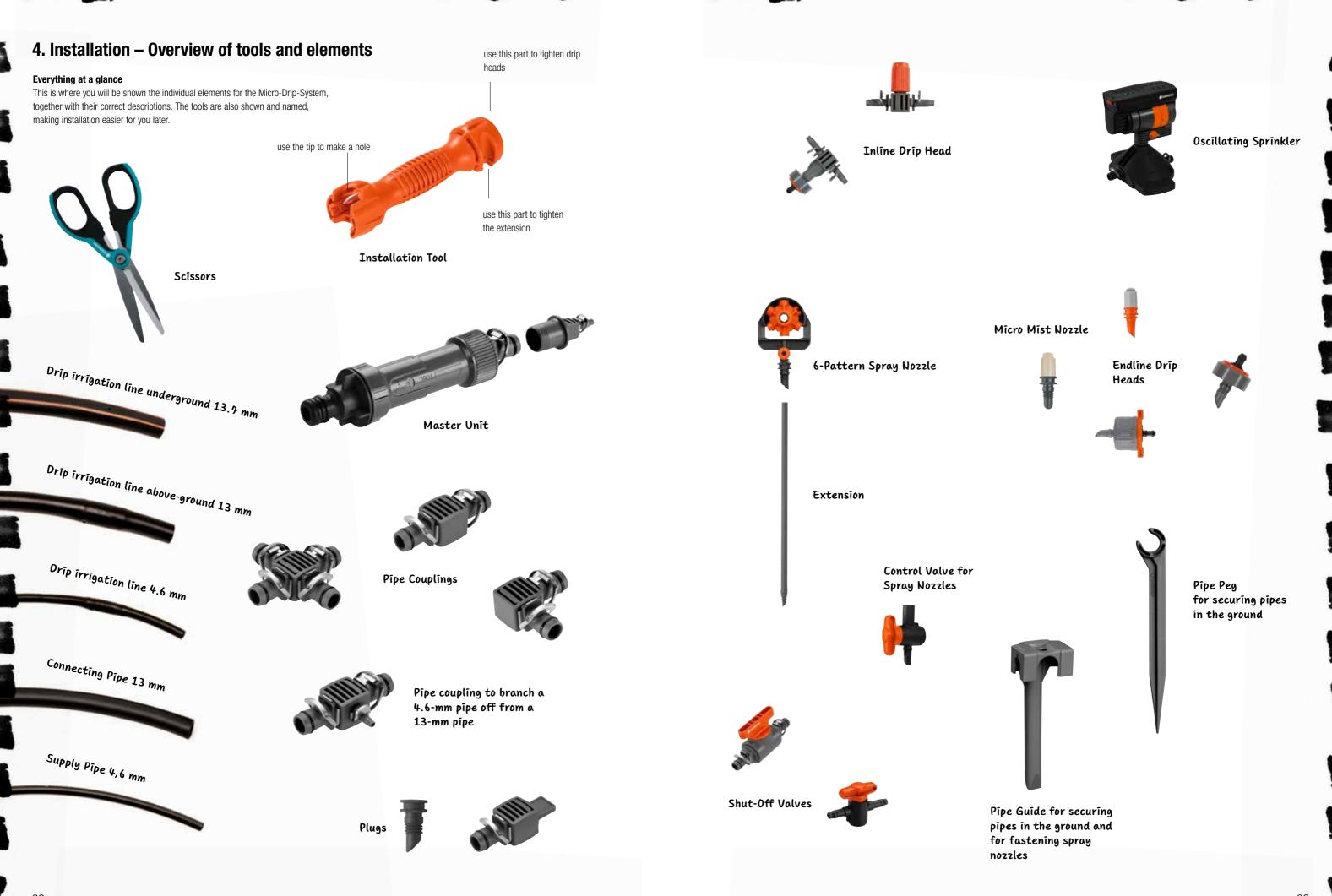
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7. Add to shopping list

Add the products to the shopping list on page 80.

60 GARDENA MICRO-DRIP-SYSTEM PLANNER GARDENA MICRO-DRIP-SYSTEM PLANNER 61



62 GARDENA MICRO-DRIP-SYSTEM PLANNER GARDENA MICRO-DRIP-SYSTEM PLANNER



The Micro-Drip-System is easy to assemble. As you would expect from GARDENA.



64

There is the option to connect the Water Control

Connect the hose



Micro-Drip-System From the master unit to the plants

Original GARDENA System

From the tap to the master unit

It's all go at the tap: Everything is connected to everything else. This is where the Water Control, the hose and the master unit are connected. Simple, waterproof,

innovative product solutions and connections for 50 years.

Connect inline drip heads

for plant troughs

flexible and safe. We have been providing safe and

The Micro-Drip-System then takes control. Connectors (e.g. four-way coupling or T-piece) areused to easily connect the drip pipes.

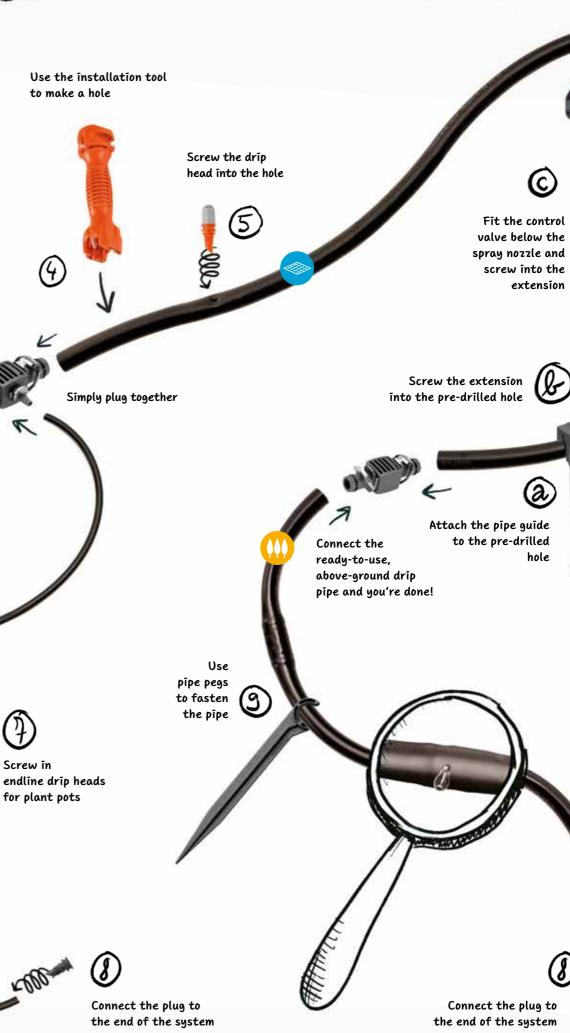






You can easily use scissors to trim the hose

Cut the pipes to the required length, then plug them together and attach the drip heads or nozzles. You can also attach the drip heads and nozzles first and then plug the pipes together. It's up to you. Whatever you decide, everything should be connected and the pipe must be sealed at the end before you allow water to flow through the system. If you want to make any subsequent alterations to the system, it can be reassembled as you wish.



Screw in

for plant pots

GARDENA MICRO-DRIP-SYSTEM PLANNER

GARDENA MICRO-DRIP-SYSTEM PLANNER

65

©

extension

(a)

Planning the Sprinklersystem

The GARDENA Irrigation Planner

Irrigation couldn't be simpler. Install your automatic sprinkler system and enjoy the freedom and convenience in no time at all. We'll show you how. From do-it-yourself to letting something else take over: Take a look at what is best for you. Our online guides and customer service team are there to help you.







A Plan it yourself

Create the individual irrigation plan for your garden. Instructions can be found over the next few pages. These instructions explain everything step by step. You can find a cut-out shopping list on page 79.

B Online planning

You can plan your own irrigation system with the help of the GARDENA Irrigation Planner "My Garden" on the GARDENA homepage: www.gardena.com/mygarden

6 Use the GARDENA customer service

No time or energy to plan your irrigation system? Our GARDENA customer service team is happy to help. Also enquire about the cost of your individual plan.

Contact service

Phone +49 (0)7 31/4 90 246 Telefax +49 (0)7 31/4 90 389 www.gardena.de/kontakt

If you want to install the system yourself, please be aware that we cannot accept any liability for any costs and damage that could occur as a result.

DOROURSGLF

Plan it all yourself – automatic irrigation in six steps

- 1. Plan the system
- 2. Choose the sprinklers
- 3. Choose the lines
- 4. Choose the connections and connectors
- 5. Choose a control system
- 6. Install the system

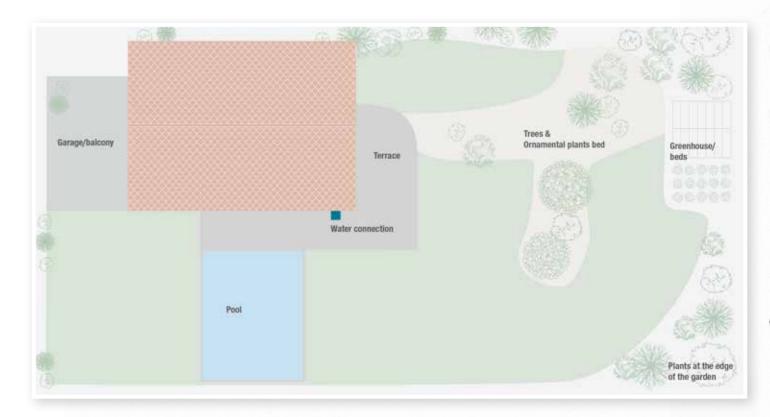
And off you go!

The next few pages will tell you all you need to know about automatic irrigation of your garden. Our long-standing expertise, perfected GARDENA technology and a shared passion for gardens create the best solutions. All of this, so that you will very soon be able to enjoy your sprinkler system without having to do the watering yourself.

1. The basis: Draw a sketch of your garden



- 1. Draw a sketch of your plot to scale 1:100 (1 cm = 1 m) or on a scale of 1:200 (1 cm = 2 m)
- 2. Mark the water supply (tap, well, tank)
- 3. Mark all areas that need to be watered



GARDENA SPRINKLER SYSTEM PLANNER GARDENA SPRINKLER SYSTEM PLANNER 67

2. Choosing sprinklers

This is where you will find the perfect choice of sprinklers for your project



For the individual combination

If you want to water different areas and put your own personal combination together, you have the option of using S-models and T-models to assemble your Sprinklersystem for efficient irrigation of your garden. Cover corner areas at 90 degrees or 270 degrees. Plan border areas at 180 degrees or with other subareas. Please note: Always connect T-models and S-models to a separate line.







For square and rectangular areas

If you wish to water areas between 2 and $140\ m^2$ in size, the OS 140 Pop-Up Oscillating Sprinkler is ideal. It is also ideal for watering particularly small or narrow areas. It covers large surfaces thank to its adjustable range of up to 15 m. An alternative to using several sprinklers at once.



!!! Important instructions right not correct T- and S models / Always insert in different lines. The reason is different amounts of precipitation. T models and Pop-up Oscillating Sprinkler (OS 140) Can be connected to the same line.

Overview sprinklers

	S models			T models	Rectangular areas					
	Pop-up Sprinkler \$30	Pop-up Sprinkler S 50	Pop-up Sprinkler S 80	Pop-up Sprinkler S-CS	Pop-up Sprinkler S-ES	Pop-up Sprinkler S 80/300	Turbo- driven Pop-up Sprinkler T 100	Turbo- driven Pop-up Sprinkler T 200	Turbo- driven Pop-up Sprinkler T 380	Pop-up Oscillating Sprinkler OS 140
Watering areas	Up to 30 m ²	Up to 50 m ²	Up to 80 m ²	6–24 m²	3–12 m²	Up to 80 m ²	Up to 100 m ²	Up to 200 m ²	Up to 380 m ²	2–140 m ²
Watering sector	5–360°	5–360°	5–360°	1–2 m	1–2 m	5–360°	70–360°	25–360°	25–360°	Width of spray 1–9,5 m
Range	1.5–3 m	2–4 m	2.5–5 m	6–12 m	3–6 m	2.5–5 m	4–6 m	5–8 m	6–11 m	2–15 m
Sprinkler distance	2–4 m	3–5 m	4–7 m	3–6 m	3–6 m	4–7 m	5–8 m	7.5–10 m	9–15 m	-

All information at 2 bar

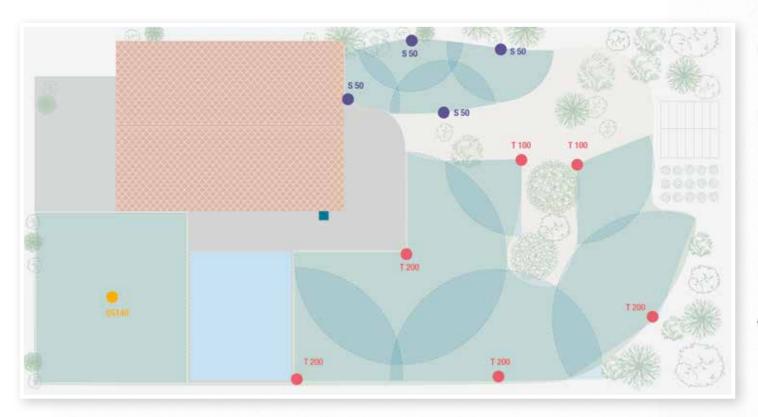
What you need to know for planning

- Circular sprinklers may and should dispense water by overlapping, as this ensures that water is spread uniformly across the entire area.
- In particularly windy areas, you should reduce the distance between the sprinklers to prevent drift.



Now take your garden sketch and complete the following:

- 1. Choose the appropriate sprinklers for the areas in your garden.
- 2. Add the sprinklers to the sketch. When doing so, note the important information about positioning sprinklers on page 68.
- 3. Add your chosen sprinklers, with the correct descriptions and required number, to your shopping list.

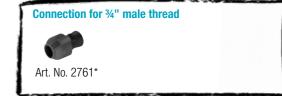


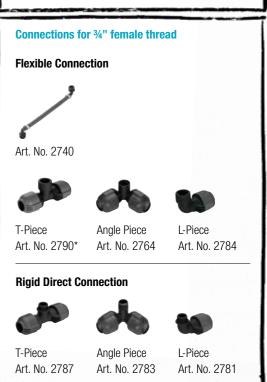
GARDENA SPRINKLER SYSTEM PLANNER GARDENA SPRINKLER SYSTEM PLANNER

Overview

Туре	Designation		Planning range	Sector	Sprinkler cons	sumption values (fo	r planning page 71)	Cnnections
Other areas up to 80 m ²		Pop-up Sprinkler S 30 Pop-up height 100 mm ½" female thread Art. No. 1554	Radius 1.5–3 m	5–360° Distance between sprinklers 2–4 m	5–90° = 6	91–180° = 11	181–270° = 16	271–360° = 20	½" female thread
	I	Pop-up Sprinkler S 50 Pop-up height 100 mm ½" female thread No. 1555	Radius 2–4 m	5–360° Distance between sprinklers 3–5 m	5–90° = 8	91–180° = 15	181–270° = 22	271–360° = 26	½" female thread
	S-Models Pop-up Sprinkler	Pop-up Sprinkler S 80 Pop-up height 100 mm ½" female thread Art. No. 1569	Radius 2.5–5 m	5–360° Distance between sprinklers 4–7 m	5–90° = 9	91–180° = 17	181–270° = 25	271–360° = 32	½" female thread
	S-Models P	Pop-up Sprinkler S-CS Pop-up height 100 mm ½" female thread Art. No. 1552	6–12 m	Width of spray 1–2 m Distance between sprinklers 3–6 m	= 15				½" female thread
	j	Pop-up Sprinkler S-ES Pop-up height 100 mm ½" female thread Art. No. 1553	3–6 m	Width of spray 1–2 m Distance between sprinklers 3–6 m	= 8				½" female thread
or higher plants		Pop-up Sprinkler \$80/300 Pop-up height 300 mm ¾" male thread Art. No. 1566	Radius 2.5–5 m	5–360° Distance between sprinklers 4–7 m	5–90° = 13	91–180° = 21	181–270° = 29	271–360° = 35	34" male thread
ther areas	o Sprinklers	Turbo-driven Pop-up Sprinkler T 100 ½" female thread Art. No. 8201	Radius 4–6 m	70–360° Distance between sprinklers 5–8 m	70–90° = 8	91–180° = 10	181–270° = 14	271–360° = 17	½" female thread
	T-Models Turbo-driven Pop-up Sprinklers	Turbo-driven Pop-up Sprinkler T 200 ½" female thread Art. No. 8203	Radius 5–8 m	25–360° Distance between sprinklers 7,5–10 m	25–90° = 9	91–180° = 13	181–270° = 17	271–360° = 20	1/2" female thread
	T-Mode	Turbo-driven Pop-up Sprinkler T 380 %" female thread Art. No. 8205	Radius 6–11 m	25–360° Distance between sprinklers 9–15 m	25–90° = 15	91–180° = 20	181–270° = 25	271–360° = 30	34" female thread
ectangular areas		Pop-up Oscillating Sprinkler OS 140 %" female thread Art. No. 8223	Range 2–15 m	Width of spray 1–9,5 m	= 22				34" female thread







GARDENA SPRINKLER SYSTEM PLANNER

3. Choosing the lines

A Calculating the connection capacity

Your sprinkler system has a specific need for water. This is what you need to bear in mind when making your choice. If the need for water is greater than the quantity of water that your connection to the water supply can deliver, then include multiple lines in your plan.

If you want to use different amounts of water to water different areas in your garden on an individual basis, you will also need multiple lines that water the areas one after the other.

You must determine the connection value of your tap so that you know how many irrigation channels

you can connect. To do this, you first have to calculate the filling time:

- Turn your tap on full and fill a 10-litre bucket.
- Measure the time in seconds it takes to fill the bucket.

B Calculating the additional time to add for distance

- How many metres are there between the tap or pump and the furthest sprinkler? Make a note of the distance.
- For each 25 m, one second is added to the bucket fill time. See the sample.
- With a filling time of under 14 seconds and the use of a Water Control, a Water Distributor automatic or a Twin-Tap Connector or Four Channel Water Distributor, an additional 3 seconds are to be added to the filling time.

© Connection value

Add the bucket fill time to the additional time to add for distance. Take the connection value from the table.

Seconds	bis 9	10–13	14–19	20–24	25–30
Connection value	100	80	60	40	20

Example

Fill time in seconds: + 1 sec per 25 m (here, for example, 29.5 m) = total in seconds

10 + 2 = 12 seconds = connection value 80

• Calculating the number of supply lines (irrigation channels)

- Label the sprinklers in your planning sketch with sprinkler consumption values.
- Draw the pipelines (starting at the water supply).
- Please note: Note the connection value.
 When adding sprinklers to the supply line, ensure that the connection value is not exceeded.
- Please consider the information regarding compatibility on page 68.
- Measure how many metres of connecting pipe you need for your lines. See the sample and garden sketch on the right.

Connecting to GARDENA pumps

If you are planning to operate your Sprinklersystem using a pump, connect a piece of 19 mm (%") hose approximately 1 m in length to the pump using a GARDENA "Profi" Maxi-Flow System Connector Set (Art. No. 1505) to measure the filling time.

Pump fill time in seconds for ten-litre buckets

Garden Pumps	Suction height up to				
Art. No.	3 m	5 m	7 m		
1732	12	15	22		
1734	9	12	18		
1736	7	10	14		

Submersible Pressure Pumps	Delivery height up to						
Art. No.	3 m	5 m	7 m	10 m			
1771	9.9	10.3	11.3	12.6			
1773	9.0	9.3	9.7	10.3			
1766	11.6	12.5	14.2	16.8			
1476	10	11	12	13			
1489	11	12	13	14			
1492	10	11	12	13			
1499	10	11	12	13			

Automatic Home & Garden Pumps / smart Automatic Home & Garden Pump Suction height up to

Art. No.	3 m	5 m	7 m
1757	20	28	40
1758	12	15	22
1759, 19080, 19106	9	12	18
1760	7	10	14

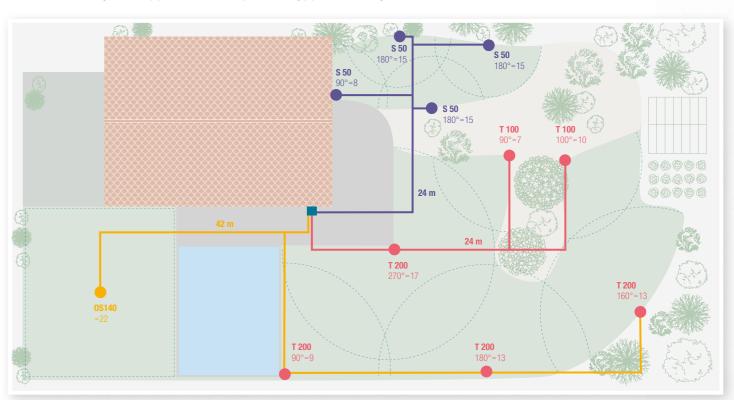
Sprinkler consumption values

	S models	S models					T models			
	Pop-up Sprinkler S 30	Pop-up Sprinkler S 50	Pop-up Sprinkler S 80	Pop-up Sprinkler S-CS	Pop-up Sprinkler S-ES	Pop-up Sprinkler S 80/300	Turbo- driven Pop-up Sprinkler T 100	Turbo- driven Pop-up Sprinkler T 200	Turbo- driven Pop-up Sprinkler T 380	Pop-up Oscillating Sprinkler OS 140
Area	_	_	_	15	8	_	_	_	_	22 •
0-90°	6	8	9	_	_	13	7	9	15	-
91–180°	11	15	17	_	_	21	10	13	20	-
3 181−270°	16	22	25	_	_	29	14	17	25	-
• 271–360°	20	26	32	_	_	35	17	20	30	-

Example Calculate the supply lines based on the sprinkler consumption values The connection value (80 in this example) must not be exceeded by the sprinkler consumptions values that you have added up for a supply line. Channel 1 22 + 9 + 13 + 13 = 50 = 42 m = a total of 90 m Channel 2 10 + 15 + 15 + 15 = 53 = 24 m

Expanding your garden sketch

- 1. Make a note of the connection value you worked out.
- 2. Now plot the necessary lines. Keep in mind that the connection value must not be exceeded by the sprinkler consumption values you have added up.
- 3. Write down the lengths of the pipes and add them up. Connecting pipes come in lengths of 10 m, 25 m and 50 m.



GARDENA SPRINKLER SYSTEM PLANNER GARDENA SPRINKLER SYSTEM PLANNER

4. Choosing connections and connectors

We now turn our attention to line connections, sprinkler connections and drainage valves

A Pipe connections

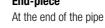
Now work out the connecting parts for the pipe connections and add the quantities you have calculated to your shopping list. See the product overview on page 49.

Connector To extend



T-piece End-piece







B Frost protection

Fit a drain valve for each line to protect your sprinkler system from frost damage. Always install the valve at the lowest point of the pipeline. See the product overview on page 49. Installation instructions on page 75.



T-piece with **Drain Valve**

End-piece with **Drain Valve**





© Sprinkler connections

Now work out the connecting parts for the sprinkler connections and add them to your shopping list. When doing so, bear in mind which coupler fits your sprinkler. See the product overview on page 50 /51 and 68/69.

Sprinkler connection options for flexible installation

Patented Connection Technology "Quick & Easy" 1 or in combination with the flexible Sprinkler Connections 2739 and 2740 2, for flexible outlining of the Turbo-driven Pop-up Sprinklers and Pop-up Sprinklers. Different options are possible: Within the run of the pipe with T-Piece, corner connection with Angle Piece or end connection with L-Piece. As alternative to the T-Piece: 3 Sattle Clamp for mounting without pipe disconnection.



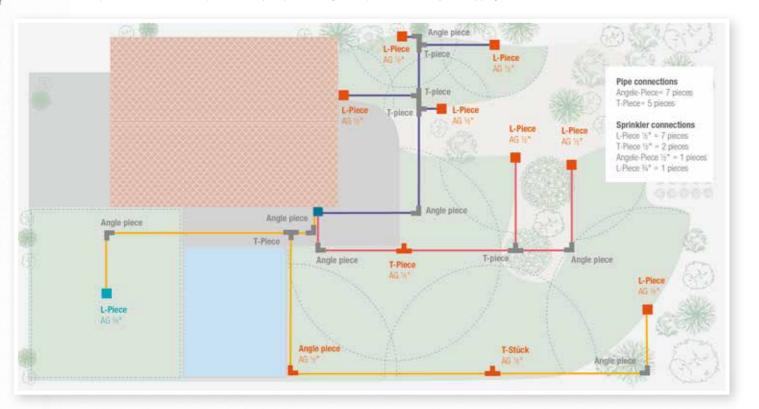






Expanding your garden sketch

- 1. Choose suitable pipe connections and plot them on your plan, adding the required number to your shopping list
- 2. Choose suitable sprinkler connections and plot them on your plan, adding the required number to your shopping list



5. Choosing a control system

Now we come to the control system. This is the heart of the system.

Sprinkler systems come in either single-channel or multi-channel systems. Multi-channel systems are systems with two or more irrigation lines. If you favour a multi-channel solution, you will always have the option of expanding the system at a later date if you wish to add other irrigation areas.

Electricity supply available

Up to 6 irrigation channels

A 24 V Irrigation Valve (1278) is connected before every irrigation channel. The GARDENA Irrigation Control System sends signals to the Irrigation Valves to open and close up to 6 irrigation channels via the Connection Cable.

You can find more information about Multi-Channel Control systems on page 39.



No electricity supply available

Any number of irrigation channels

An Irrigation Valve 9 V Bluetooth® (1285) is connected before every irrigation channel. All configuration is done in the GARDENA Bluetooth® App and - via Bluetooth® – sent to the control unit on top of the valve. The valves are opened and closed then according to the scheduled settings in the app. The benefit for you is that you can position the valves anywhere in the garden. A new 9 V battery works for a whole season.

You can find more information about Multi-Channel Control systems on page 39.



Connecting the system

The system can be connected in no time at all thanks to Quick&Easy technology. The detailed product overview can be found on page 51. Add all necessary products to your shopping list. We recommend the following products when it comes to connecting the system:



Connecting Point

For the underground connection of Pipeline and Sprinklersystem



"Profi" Maxi-Flow System **Connector Set**

For the connection of the Pipeline and the Sprinklersystem to the water tap



"Profi" Maxi-Flow System **Connection Set**

Komplett-Set zum Anschluss von Pipeline und Sprinklersystem an die Wasserversorgung



Valve Box V3

For up to 3 Irrigation Valves 9 V or 24 V



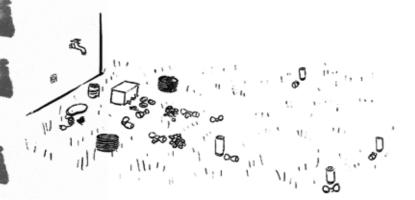
Various connection pieces

To connect to connecting points, water connectors, valves and valve boxes or to connect directly to home

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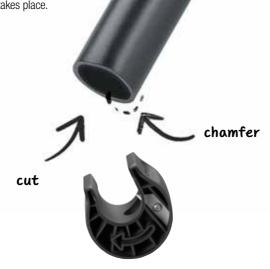
6. Installing the system

There are only a few more things you need to do before you can sit back and relax whilst irrigation takes place. Here are a few easy steps to allow you to professionally install your sprinkler system.*

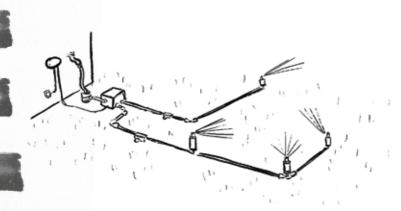


A Lay out all the parts in your garden in accordance with the plan. When doing so, start at the beginning of your watering system.

Tip: Unwinding the pipelines one to two hours beforehand and laying them out in the sun makes them easy to straighten.



B Cut the pipes to the correct length in accordance with the plan. Make sure that no soil enters the pipeline. If necessary, chamfer the pipe, i.e. remove any dirty cut edges. For straight pipe cuts in just one turn, use the GARDENA Pipe Cutter.



E Important! Now check that your sprinkler system is watertight. To check this, carry out a test run before you lay the system underground. If the sprinkler system is watertight, continue to Step F. If it is not watertight, check to see if the pipes are actually placed as far as they will go into the coupler.

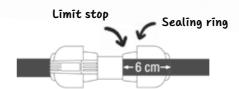


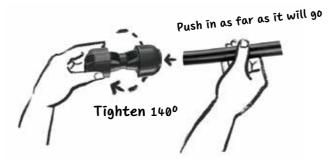
Now replace the soil, lay the turf on the soil and tread down. Everything will grow back faster if you water the soil and turf beforehand. After two to three weeks, you will not be able to see the system any more.



Use a spade to cut out a v-shaped pipe trench approx. 20-25 cm deep. When doing so, carefully remove the turf that you have dug out and dig out the trench. Remove any stones

Tip: Mow the lawn and water it beforehand. This will make the process easier.





© Now connect the elements. Push the pipes approx. 6 cm into the connecting part over the 0-ring, creating a water-tight connection. Caution: a sealing ring is positioned after approx. 4 cm. At this point, push the pipe further into the hole.



D Now adjust the spray direction, the sectors and the reach on the sprinkler. Simply use a screwdriver to turn the upper screw. This will allow you to regulate the range.



G Lay lines with sprinklers and components connected in the trench. All sprinklers, connecting points, and water connectors must be installed flush with the ground surface. The head including recessed grip should be above the ground for regular cleaning.



H The drain valves are installed at the lowest points of the system. On slopes, the height difference between the drain valves must not exceed 2 m. Install several drain valves on slopes if necessary. To improve drainage and to protect the drain valve underlay it with a seeping water drain packing (washed, coarse gravel, approx. 20 × 20 × 20 cm).

Before fitting the drain valves, flush the system to remove any contamination that may have entered the system during installation. The drain valves automatically open after watering, as soon as the water pressure is less than 0.2 bar, and drain the line.

GARDENA SPRINKLER SYSTEM PLANNER GARDENA SPRINKLER SYSTEM PLANNER

^{*} If you want to install the system yourself, please be aware that we cannot accept any liability for any costs and damage that could occur as a result.

Maintenance tips & tricks

Here are some tips that will help you prolong the life of your system.



Central Filter

If water is supplied to the irrigation system via a pump, sand may enter the pipeline system and causes your sprinkler to malfunction. Therefore, always use a central filter if the water is supplied via a pump.







Changing from 19 mm or 32 mm to 25 mm pipe connections

Did you install your GARDENA Sprinklersystem before 2020 and now want to extend or upgrade it?

- For changing from the 19 mm connecting pipe to the 25 mm pipe, use the Adapter Piece art. no. 1513 combined with the Connector 25 mm × 1" male thread Art. no. 2763.
- For changing from the 32 mm connecting pipe to the 25 mm pipe, use the Reduction Connector Art. no. 2777.





Continuous pressure-resistant connection

To guarantee a continuous pressure-resistant connection, the tap and connecting point (2722) should be connected using a ¾" hose and two adapter pieces (1513).



Combining V3 valve box with V1 valve box

The V3 valve box is connected to the water supply. You can also combine it with a V1 valve box. To do so, branch off a connecting pipe and connect it to the V1 valve box.

Tip: If you want to install more than one valve box next to each other, we recommend screwing the valve boxes to a wooden board, thus fixing them into place.



High water pressure

The sprinklers and pipes are approved for an operating pressure of up to 6 bar. If the water pressure is higher, a pressure reduction unit must be fitted. For questions regarding correct connection to the domestic water supply network, please ask your local sanitary works specialist.



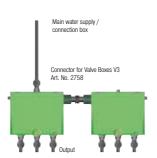
Frost protection

Disconnect your irrigation system from the supply line before the first frost sets in. Observe the notes on frost protection for the individual products.



Most commonly used tools

Secateurs or GARDENA Pipe Cutter to cut pipes, screwdrivers (flat-tip or Phillips-head) to adjust the sprinkler, spades to bury pipes.



Combining V3 and V3 valve box

V3 valve boxes can be very easily combined with each other, assembled and disassembled. The telescopic screw connection ensures this can be done.



Art. No.	Designation	Pieces
Pop-up S	Sprinkler	
8223	Pop-up Oscillating Sprinkler OS 140 34" female thread	
8201	Turbo-driven Pop-up Sprinkler T 100 ½" female thread	
8203	Turbo-driven Pop-up Sprinkler T 200 ½" female thread	
8205	Turbo-driven Pop-up Sprinkler T 380 3/4" female thread	
1554	Pop-up Sprinkler S 30 ½" female thread	
1555	Pop-up Sprinkler S 50 ½" female thread	
1569	Pop-up Sprinkler S 80 ½" female thread	
1552	Pop-up Sprinkler S-CS ½" female thread	
1553	Pop-up Sprinkler S-ES ½" female thread	
1566	Pop-up Sprinkler S 80/300 34" male thread	
Sprinkler	connection	
2780	L-Piece 25 mm × 1/2" male thread	
2782	Angle Piece 25 mm × ½" male thread	
2784	L-Piece 25 mm x ¾" male thread	
2764	Angle Piece 25 mm x ¾" female thread	
2739	Sprinkler Connection ¾" x ½"	
2740	Sprinkler Connection ¾" x ¾"	
2728	Sattle Clamp 25 mm x ¾" female thread	
2765	Cutter for Sattle Clamp ¾" thread	
2786	T-Piece 25 mm × ½" male thread	
2781	L-Piece 25 mm × ¾" male thread	
2783	Angle Piece 25 mm × ¾" male thread	
2787	T-Piece 25 mm × ¾" male thread	
2790	T-Piece 25 mm × ¾" female thread	
2761	Connector 25 mm × ¾" female thread	
Supply li	ne	
2718	10 m – Connecting Pipe 25 mm	
2700	25 m – Connecting Pipe 25 mm	
2701	50 m – Connecting Pipe 25 mm	
2727	Pipe Cutter 25 mm	
Supply li	ne connections	
2771	T-Piece 25 mm	
2773	L-Piece 25 mm	
2775	Connector 25 mm	
2777	Reduction Connector 32 mm – 25 mm	
2778	End-Piece 25 mm	
Frost pro	tection	
2760	Drain Valve (connection ¾" male thread)	
2770	Drain Valve Set	

Art. No.

Multi-Chan	nel Control System with electricity supply		
1283	Irrigation Control System 4030		
1284	Irrigation Control System 6030		
19209	smart Irrigation Control Sensor Set	smart	
1278	24 V Irrigation Valve		
1280	Connection Cable, 15 m		
1282	Cable Clip (contents: 6 pieces)		
Multi-Chan	nel Control System without electricity supply		
1285	Irrigation Valve 9 V Bluetooth®	*	
1286	Valve Box 9 V Bluetooth® Set	*	
1287	Control Unit 9 V Bluetooth®	*	
Multi-Chan	nel Control System Valve Boxes		
1254	Valve Box V1		
1255	Valve Box V3		
1286	Valve Box 9 V Bluetooth® Set	*	
2758	Connector for Valve Boxes V3		
System co	nnection		
8262	Connecting Point		
1505	"Profi" Maxi-Flow System Connector Set		
2713	"Profi" Maxi-Flow System Connection Set		
1513	Adapter Piece 26.5 mm (G¾") / 33.3 mm (G1")		
1510	Central Filter		
8264	Regulator and Shut-Off Valve		
2762	Connector 25 mm \times 1" female thread		
2763	Connector 25 mm × 1" male thread		
Expansions	Sensor		
1867	Soil Moisture Sensor		
19040	smart Sensor	smart	
Expansions	s Pipeline		
8266	Water Station		
8254	Water Plug		
8251	Oscillating Sprinkler		
8252	Garden Water Tap		
8270	Starter Set Pipeline		
8272	Starter Set Pipeline with Oscillating Sprinkler		
8274	Complete Set Pipeline with Oscillating Sprinkler		

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78 GARDENA SPRINKLER SYSTEM PLANNER

Micro-Drip-System shopping list

	Art. No.	Designation	Content	Quant
	System st	art and accessories		
0	1355	Master Unit (water flow up to 10001/h)	1	
2	1354	Master Unit (water flow up to 2000 I/h)	1	
3	8313	Fertilizer Dispenser	1	
4	8322	Installation Tool	1	
	Supply L	ines and Pipe Guides		
5	1346	Connecting Pipe (13 mm, ½"), 15 m	1	
5	1347	Connecting Pipe (13 mm, ½"), 50 m	1	
6	1350	Supply Pipe (4.6 mm, ³ / ₁₆ "), 15 m	1	
6	1348	Supply Pipe (4.6 mm, $^3/_{16}$ "), 50 m	1	
7	8358	Shut-Off Valve (13 mm ½")	1	
7	13217	Shut-Off Valve (4.6 mm ³ /16")	2	
8	8380	Pipe Clip (13 mm ½")	2	
8	8379	Pipe Clip (4.6 mm ³ / ₁₆ ")	5	
9	13208	Pipe Pegs (13 mm ½")	10	
9	13218	Pipe Pegs (4.6 mm ³ / ₁₆ ")	15	
10	8328	Pipe Guide (13 mm ½")	3	
10	8327	Pipe Guide (4.6 mm ³ / ₁₆ ")	3	
	Connect	ors and Accessories		
•	8339	4-Way Coupling (13 mm ½")	2	
1	8334	4-Way Coupling (4.6 mm ³ / ₁₆ ")	10	
12	8333	Reducing T-Joint (13 mm ½")	5	
13	8329	T-Joint (13 mm ½")	2	
13	8330	T-Joint (4.6 mm ³ / ₁₆ ")	10	
14	8382	L-Joint (13 mm ½")	2	
14	8381	L-Joint (4.6 mm ³ / ₁₆ ")	10	
15	8356	Connector (13 mm ½")	3	
15	8337	Connector (4.6 mm ³ / ₁₆ ")	10	
16	8324	Plug (13 mm ½")	5	
16	1323	Plug (4.6 mm ³ /16")	10	
17	8331	T-Joint for Spray Nozzles (13 mm ½")	5	
17	8332	T-Joint for Spray Nozzles (4.6 mm ³ / ₁₆ ")	5	
18	1377	Extension Pipe for Spray Nozzles	5	
19	13231	Shut-Off Valve	5	
20	8363	Extension Pipe for Oscillating Sprinkler OS 90	2	
		ts for plant pots		
	13000	Start Set Flower Pots S	1	
	13001	Start Set Flower Pots M	1	
	13002	Start Set Flower Pots M automatic	1	

	Art. No.	Designation	Content	Quant
	Endline	drip heads for plant pots		
21	1340	Endline Drip Head, 21/h	25	
22	8310	Endline Drip Head (pressure equalizing), 21/h	10	
23	1391	Adjustable Endline Drip Head, 0-101/h	10	
24	8316	Adjustable Endline Drip Head (pressure equalizing), 1–81/h	5	
	Inline dr	ip heads for plant troughs		
25	8343	Inline Drip Head, 21/h	10	
26	8311	Inline Drip Head (pressure equalizing), 2 I/h	10	
27	8392	Adjustable Inline Drip Head, 0–101/h	10	
28	8317	Adjustable Inline Drip Head (pressure equalizing), 1–81/h	5	
	Start Se	ts for Planted areas		
	13015	Start Set Planted Areas	1	
	13016	Start Set for Raised Beds and Beds automatic	1	
	Nozzles	and Sprinklers for Planted areas		
29	1372	Endline Micro Strip Sprinkler	5	
30	1370	Micro Strip Sprinkler	5	
31	1396	6-Pattern Spray Nozzle	2	
32	1369	Micro Rotor Sprinkler 360°	2	
33	1371	Micro Mist Nozzle	5	
34	1365	Spray Nozzle 360°	5	
34	1367	Spray Nozzle 180°	5	
34	1368	Spray Nozzle 90°	5	
35	8320	Small Area Spray Nozzle	10	
36	8321	Small Area Spray Nozzle (4.6 mm ³ / ₁₆ ")	10	
37	8364	Oscillating Sprinkler OS 90	1	
	Start Se	ts for Rows of plants		
	13010	Start Set Rows of Plants S	1	
	13011	Start Set Rows of Plants M	1	
	13012	Start Set Rows of Plants M automatic	1	
	13013	Start Set for Rows of Plants L	1	
	1389	Start-Set Irrigation Line for Rows of Plants, subterranean	1	
	Water C	ontrols		
	1169	Manual Tap Timer	1	
	1890	Flex	1	
	1891	Select	1	
	1889	<u> </u>	1	
	1892	Master	1	
	1874	MultiControl duo	1 1 1	
	19031	Smart water control	nart	
	19040	sn	nart '	
	1867 1868	Soil Moisture Sensor Extension Cable	1	
	1197	Water Distributor automatic	1	
	. 107			

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- Videos on YouTube with informative films about our irrigation solutions

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