

GARDENA Watering Systems 2012



GARDENA Pipeline

Water like electricity from the mains



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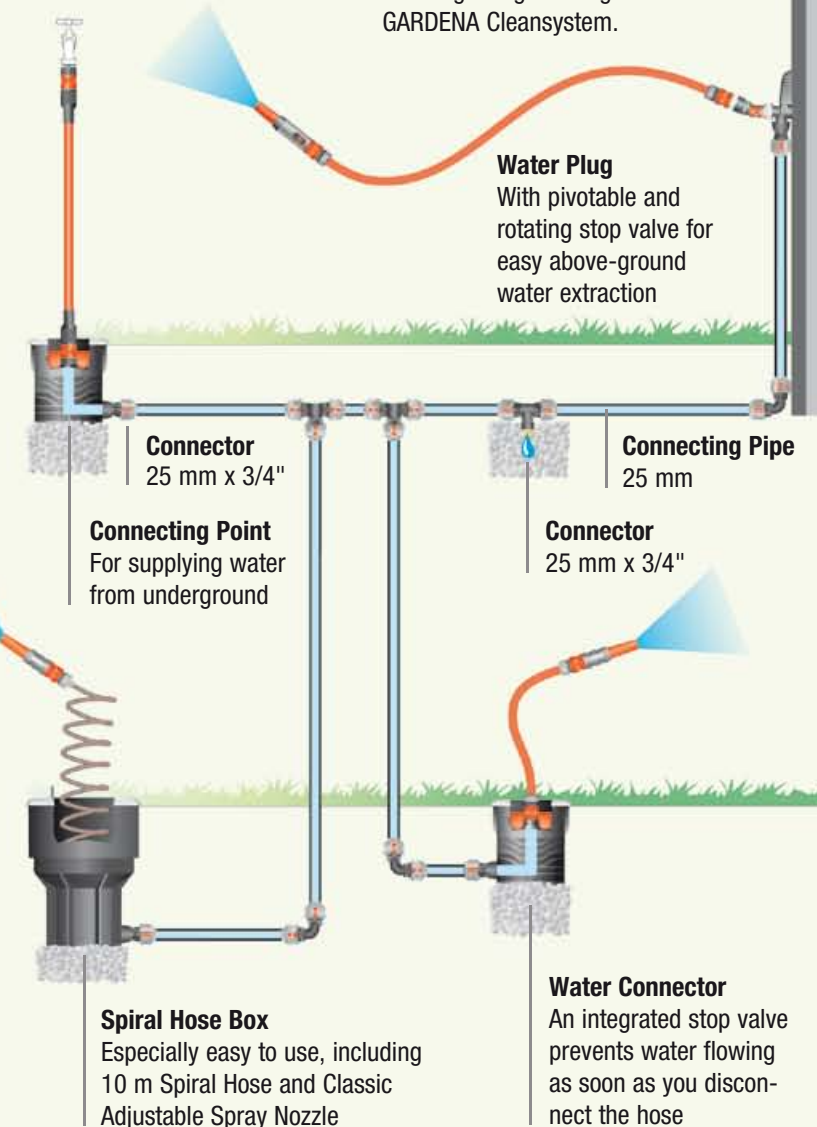
Do you need water at different places around your house and garden and have you had enough of winding and unwinding yards and yards of garden hose?

Then the **GARDENA Pipeline**, permanently installed below ground, is the perfect solution for you.



Extremely comfortable!
Just click your hose to a Water Connector or Water Plug in the garden and you've got water fast.

For watering your flowerbeds, to supply water for a GARDENA sprayer, for water-saving irrigation using the GARDENA Micro-Drip-System, for showering, or cleaning using the Original GARDENA Cleansystem.



Cold weather in the winter?
No problem! The automatic drain valves protect the system against frost.

GARDENA Sprinklersystem

Easy watering using pop-up sprinklers



The pop-up sprinklers installed below ground pop-up as if by magic when it is time to water your garden.

They distribute precious water exactly where it is needed and disappear again back into the ground when their work is done.

If you also install a GARDENA Water Computer your irrigation system will water your garden even in your absence. Durable – easy – versatile.

Large-Area Pop-up Irrigation AquaContour automatic

For watering individual lawn shapes

Up to 50 key contour points can be stored

Memory function*



Pop-up Oscillating Sprinkler R 140

For watering square and rectangular areas

Adjustable spray width and range

Swivelling sprinkler head for easy setting of the spray direction

Turbo-driven Pop-up Sprinkler T 100

For all other areas larger than 150 m² (in combination with T 200/T 380)

Adjustable range
Infinitely variable sector setting

Turbo-driven Pop-up Sprinkler T 200

For all other areas larger than 150 m² (in combination with T 100/T 380)

Adjustable range
Infinitely variable sector setting

Memory function*

Turbo-driven Pop-up Sprinkler T 380

For all other areas larger than 150 m² (in combination with T 100/T 200)

Selectable range
Infinitely variable sector setting

Memory function*

Pop-up Sprinkler S 80

For all other areas smaller than 150 m²

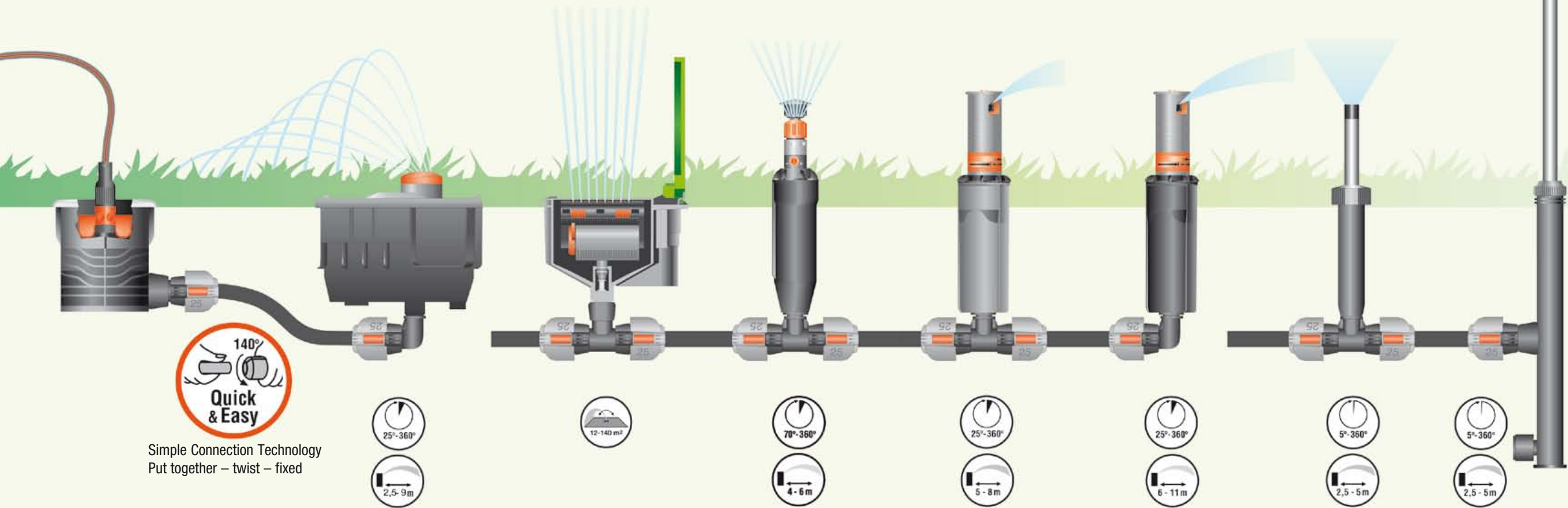
Adjustable range
Infinitely variable sector setting

Pop-up Sprinkler S 80/300

For watering over the top of taller plants. Sprinkler piston length: 30 cm

Adjustable range
Infinitely variable sector setting

Turbo-driven Pop-up Sprinklers and Oscillating Pop-up Sprinklers can be used together in one irrigation line because they distribute a similar amount of water. For easy system planning and installation. Detailed planning and installation descriptions you will find in the enclosed "Sprinklersystem Planning Guide".



*Memory function: sprinkler automatically returns to the set sector position if the sprinkler head is turned accidentally or intentionally.

The performance data given is that obtained with an operating pressure of 2 bar at the sprinkler.

Cold weather in the winter?
No problem! The automatic drain valves protect the system against frost.

GARDENA Micro-Drip-System

Accurate, metered irrigation helps reduce water consumption



"Quick & Easy" connection technology

For connecting, disconnecting and rearranging components of your irrigation system with great ease.

Connecting: Simply push on the pipe.

Disconnecting: Pull back the stainless steel clip and remove the pipe.

The ideal way to promote growth and conserve water

Flowerbeds and borders, vegetable plots, shrubs, hedges, delicate seedlings in the greenhouse, potted plants on the patio and hanging baskets will all flourish drop by drop.

The wide range of Micro-Drip-System components makes it easy to create

the ideal irrigation system for your garden that is perfectly adapted to the individual needs of your plants:

From continuous drops to a slight drizzle, to a gentle mist spray – this kind of irrigation system helps to conserve water and you can throw away your watering can!

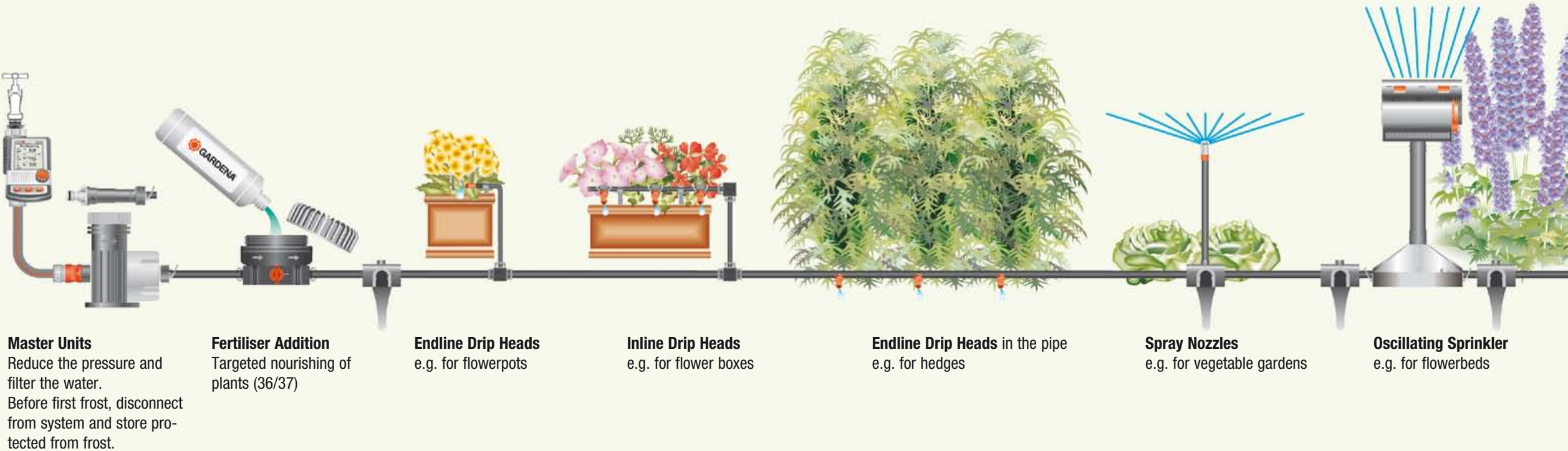
With the Micro-Drip-System Fertilizer Dispenser and the Universal Liquid Fertilizer concentrate, you can supply your plants with necessary nutrients in a targeted way.

Accurate, metered garden irrigation

The soil is watered gently and evenly preventing too much precious water from evaporating, seeping or flowing away. This water-efficient type of irrigation system supplies the roots of each plant with exactly the right amount of water.

Less is more: more growth, more efficient and more convenient.

You can also connect a GARDENA Water Computer for fully automatic garden irrigation. It doesn't get any easier than this!



New!
Automatically create a purchase list for your individual Micro-Drip-System with the Micro-Drip-System Planner at www.gardena.com.

An overview of all the components with the appropriate numbering can be found on pages 16 and 17.

Easy to get started: With complete sets supplied ready for installation that contain everything you need for particular watering applications for terraces, for flower boxes, for greenhouses, as universal set



GARDENA Micro-Drip-System

Extremely versatile garden irrigation



... for hedges,

Easy watering for the entire hedge

Route the 13 mm (1/2") Connecting Pipe (3) along the bottom of the hedge. Plan to install one Endline Drip Head (16/17) for each plant. Install the drip heads in the Connecting Pipe using the Installation Tool (2). Attach the Master Unit (1) to the input side of the Connecting Pipe. Close off the end of the pipe with a Plug (14).

Pipe Guides (6) are used to secure the pipe in the ground. We recommend using 1 Pipe Guide for each metre of Connecting Pipe. You can also install 4.6 mm (3/16") Inline Drip Heads (20/21) in a Supply Pipe (4) for watering shorter rows of plants up to a maximum of 15 m in length. You can install up to 25 2 l/h Inline Drip Heads in the Supply Pipe.

Note:

The Master Unit 2000 can supply up to 400 2 l/h Inline Drip Heads from the centre of the 13 mm (1/2") pipe system. If the drip heads are installed every 30 cm, this corresponds to a total length of 120 m. Additionally: As an alternative to the 13 mm (1/2") Connecting- and 4.6 mm (3/16") Supply Pipes, the GARDENA Drip Irrigation Lines (please also see page 15) can be used with set drip heads spaced at 30 cm.



Endline Drip Head

... patios and potted plants,

Patio irrigation made easy

The 4.6 mm (3/16") Supply Pipe (4) can be installed inside boxes for watering flowers and plants and containers and pots on patios. Five 2 l/h Inline Drip Heads (20/21) are installed in the Supply Pipe for every metre of flower box. For an effective irrigation put the drip heads as close as possible to the plants. The pipe is secured in place using 2-3 Pipe Guides (6/7) for each box. The Master Unit (1) is installed at the inlet side of the irrigation system.

Note:

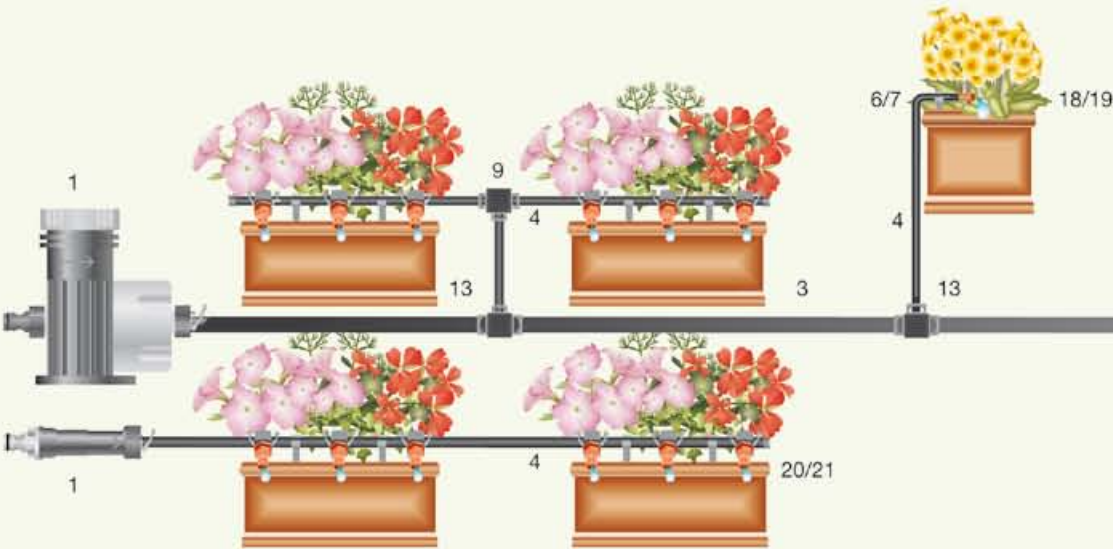
If you are installing an irrigation system for more than 5 m of flower boxes, route the 13 mm (1/2") Connecting Pipe (3) alongside the boxes and then branch off the pipe every 5 m to the 4.6 mm (3/16") Supply Pipe (4) installed inside the individual flower boxes. Connect the pipes using Reducing T-Joints (13) and 4.6 mm (3/16") T-Joints (9).

If you do not have a tap on your patio, we recommend using the fully automatic GARDENA Flower Box Watering set (see Page 14).

Accurate drip irrigation in plant pots

Water potted plants on your patio with Adjustable Endline Drip Heads (18/19). Install these drip heads in the end of the Supply Pipe (4) by hand using the Installation Tool.

Connect the Supply Pipe to the central Connecting Pipe (3) using Reducing T-Joints (13). You can position and secure the drip heads in the plant pot using Pipe Pegs (7). Install the Master Unit (1) at the start of the Connecting Pipe.



Inline Drip Head

Adjustable Endline Drip Head

An overview of all the components with the appropriate numbering can be found on pages 16 and 17.

GARDENA Micro-Drip-System

Extremely versatile



... for greenhouses,

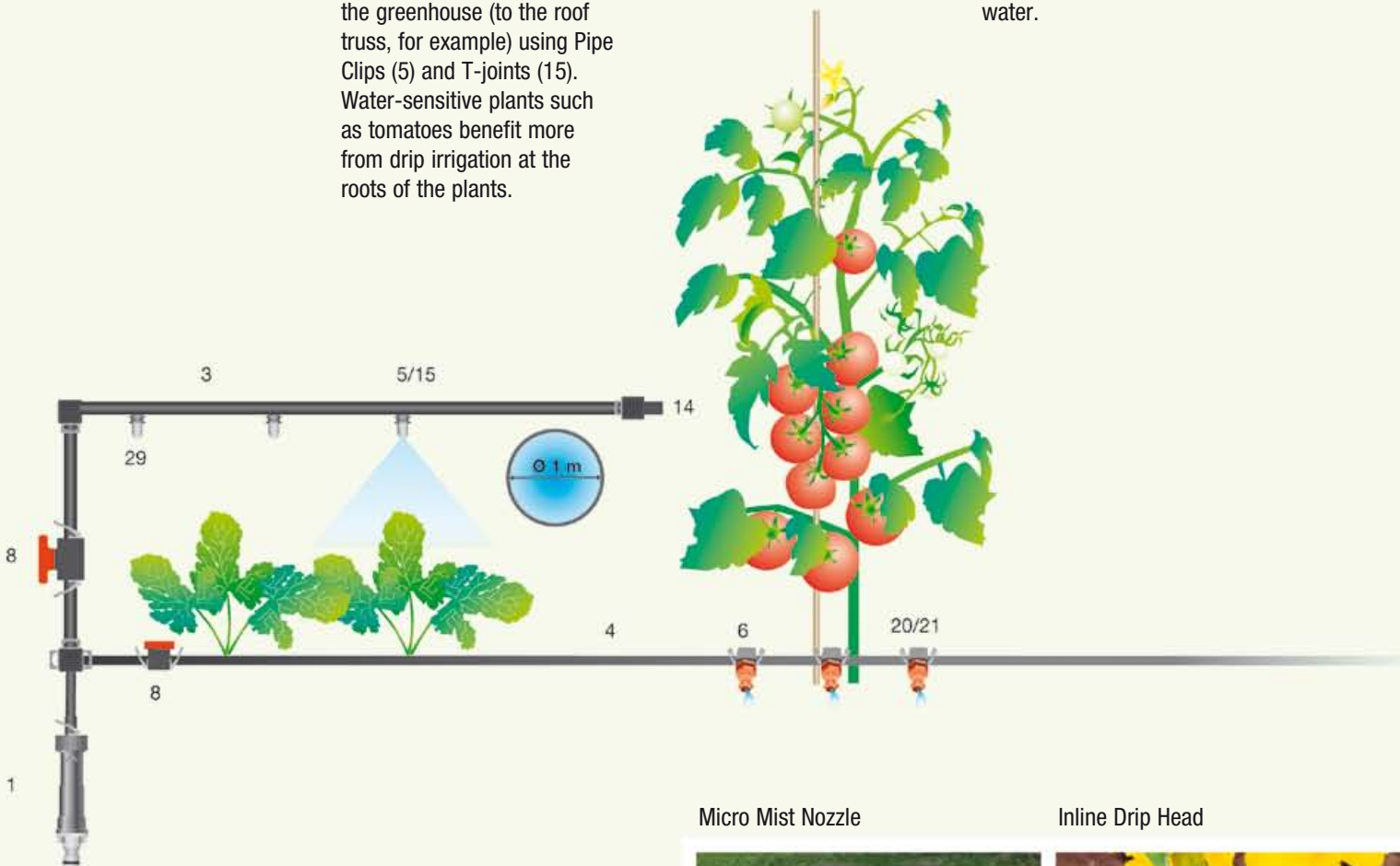
Irrigation suitable for greenhouses

Seedlings flourish best in the greenhouse when watered by a fine mist from Micro Mist Nozzles. You should therefore install Micro Mist Nozzles (29) approximately 50 cm apart in the 13 mm (1/2") Connecting Pipe (3) and secure the pipe at the top of the greenhouse (to the roof truss, for example) using Pipe Clips (5) and T-joints (15). Water-sensitive plants such as tomatoes benefit more from drip irrigation at the roots of the plants.

Install Inline Drip Heads (20/21) in the 4.6 mm (3/16") Supply Pipe (4) according to the spacing of your plants and secure the Supply Pipe in the ground with Pipe Guides (6). Use a Plug (14) to seal off the end of the pipe.

Note:

You can also combine drip irrigation and spray nozzle irrigation in one system. Install shut-off valves (8) in the individual irrigation lines before the drip heads and nozzles so that the individual plant areas are supplied with exactly the right amount of water.



Micro Mist Nozzle

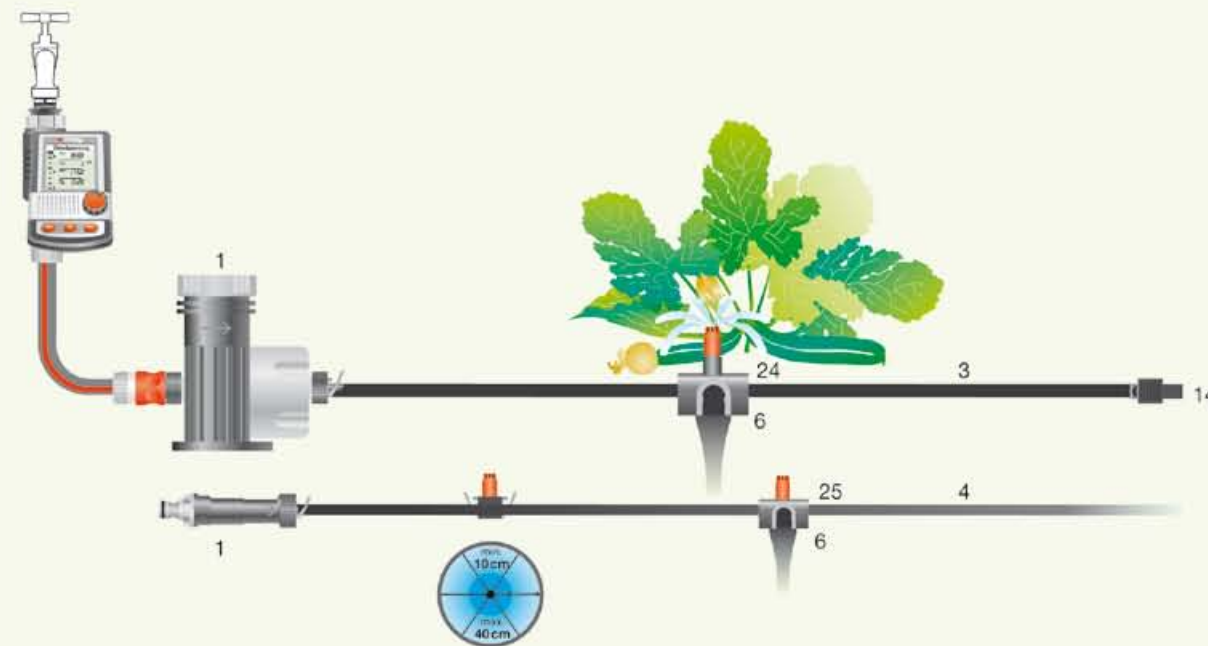
Inline Drip Head

... and plant troughs, bushes, and shrubs

Accurate watering for smaller areas

More awkward areas of your garden such as plant troughs or around trees can be watered using Small Area Spray Nozzles (24/25). The irrigation diameter of this type of nozzle can be adjusted from 10 to 40 cm. In irrigation systems up to a maximum of 15 m in length you should install the nozzles along the 4.6 mm (3/16") Supply Pipe (4).

You can use up to 4 Small Area Spray Nozzles in an irrigation system of this size. If your irrigation system is longer than this, however, use the Installation Tool (2) to install the nozzles directly in the 13 mm (1/2") Connecting Pipe (3) instead. You can install a maximum of 30 nozzles. Position the Small Area Spray Nozzles exactly where you need them using Pipe Guides (6). Seal off the end of the pipe using a Plug (14).



Small Area Spray Nozzles



An overview of all the components with the appropriate numbering can be found on pages 16 and 17.

GARDENA Micro-Drip-System

Extremely versatile



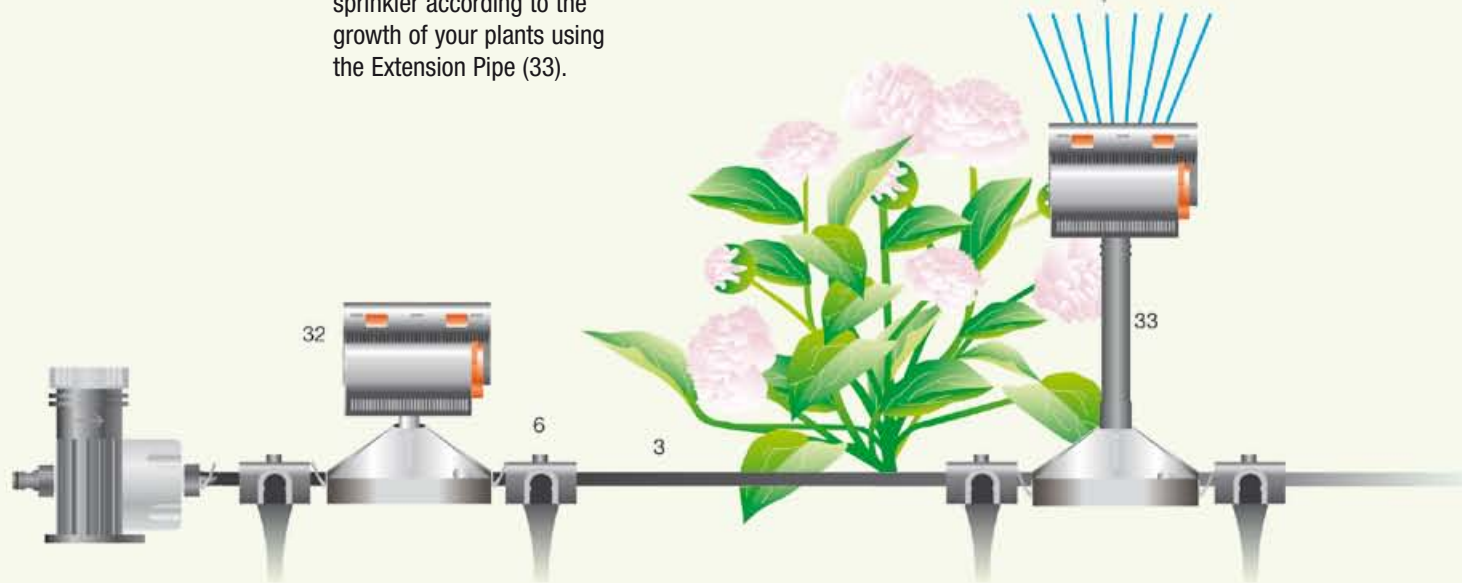
Watering tip:
We recommend watering your garden for a prolonged period once to twice a week. This will ensure that water penetrates the soil to the deeper roots of your plants. The Oscillating Sprinkler Vario 50 distributes approximately 5 litres per square metre per hour. This corresponds to a seeping depth of approximately 5 cm/hour depending on the type of soil in your garden.

... for vegetable plots, flowerbeds and borders

Accurate, metered irrigation for areas of all shapes and sizes

The best way to water the square and rectangular areas in vegetable plots and flowerbeds is to use the Oscillating Sprinkler Vario 50 (32). The range and width of spray can be adjusted as required. The area covered can be selected from between 5 m² and 50 m². You can change the height of the sprinkler according to the growth of your plants using the Extension Pipe (33).

The Oscillating Sprinkler is installed in the 13 mm (1/2") Connecting Pipe (3) and secured in the ground using Pipe Guides (6). You can connect up to 4 sprinklers if they are spaced 10 m apart.



Oscillating Sprinkler Vario 50

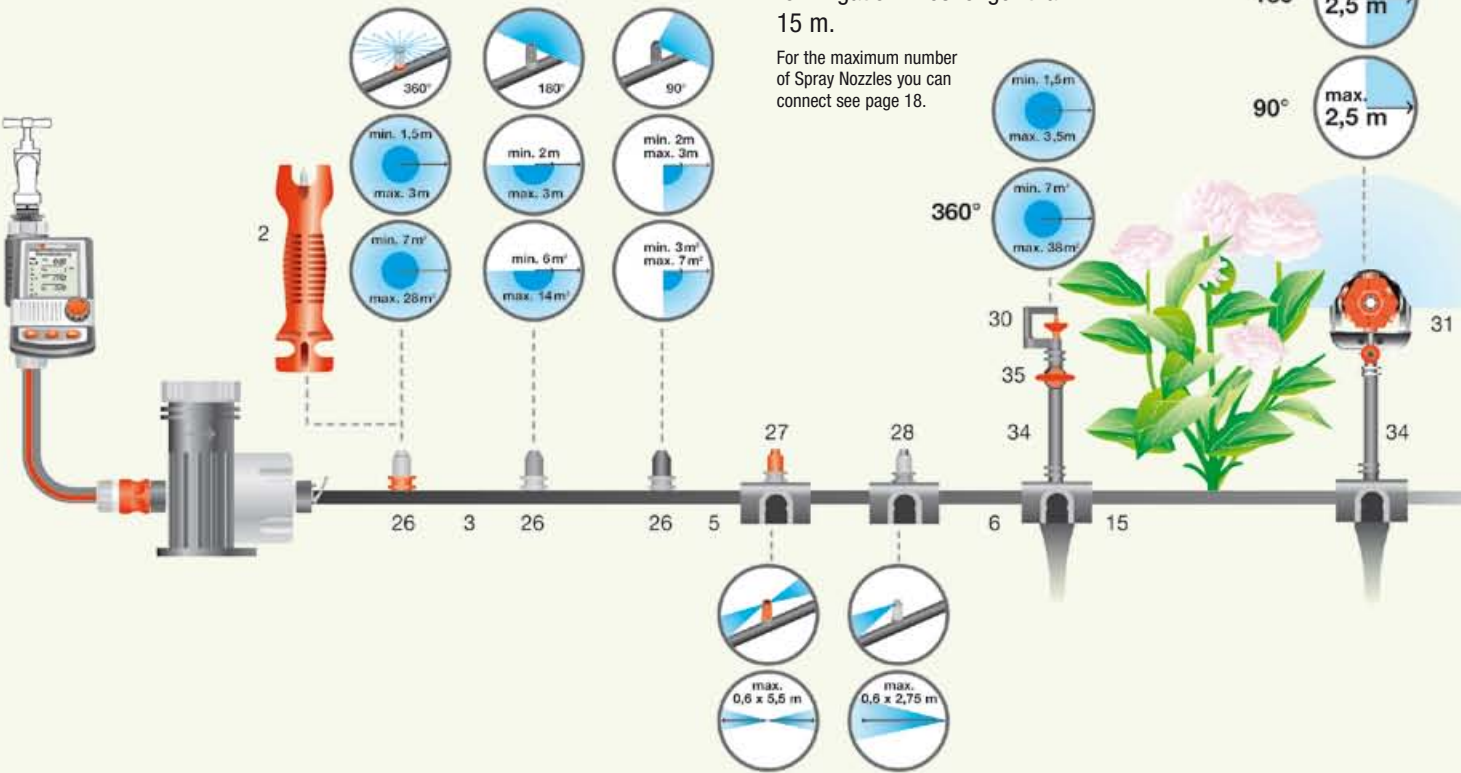
Gentle mist irrigation

Spray Nozzles (26/27/28/30/31) installed directly in the Connecting Pipe (3) using the Installation Tool (2) are ideal for watering vegetable plots, flowerbeds and borders below the leaves of plants.

If you need to water your plants in flowerbeds, for example, with a fine mist from above, install the Spray Nozzles on a T-Joint with nozzle connection (15) and use Extension Pipes (34) to raise the nozzles to the correct height.

Secure the T-Joint (15) in the ground using Pipe Guides (6) or attach it to a firm surface using Pipe Clips (5). You can adjust the range of the Spray Nozzles according to the growth of your plants using the control valve (35). For short irrigation lines up to a maximum of 15 m you can use the 4.6 mm (3/16") Supply Pipe (4) as a water line. You should use the 13 mm (1/2") Connecting Pipe (3), however, for irrigation lines longer than 15 m.

For the maximum number of Spray Nozzles you can connect see page 18.



Spray Nozzle

6-Pattern Spray Nozzle

An overview of all the components with the appropriate numbering can be found on pages 16 and 17.

GARDENA Micro-Drip-System

Watering without a tap



... for flower boxes and balcony planters

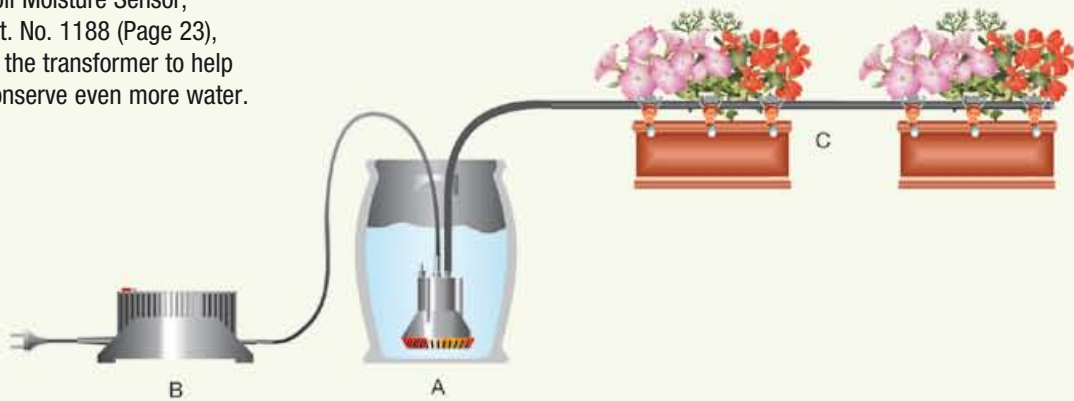
Fully automatic flower box watering

For watering up to 5-6 m of containers. The water is supplied independently of a tap using a water container and pump (A). The pump transformer (B) features 13 pre-set programmes for fully automatic irrigation.

Inline Drip Heads with a flow rate of 2 l/h (C) supply water to your plants accurately

and help to conserve water. You can also connect the GARDENA Rain Sensor electronic, Art. No. 1189 or Soil Moisture Sensor, Art. No. 1188 (Page 23), to the transformer to help conserve even more water.

Complete Set (without water container) Art. No. 1407.



... for potted and indoor plants

Automatic irrigation while you are away on holiday

For watering up to 36 potted plants. The transformer (A) and the pump (C) activate the irrigation system for 1 minute per day. 3 drip distributors (B), each with different water flows and 12 outlets ensure accurate watering. The pipe pegs (D), which are also included in the set, secure up to 3 drip pipes per flowerpot.

Complete Set with 9 l water container Art. No. 1266 without water container Art. No. 1265.

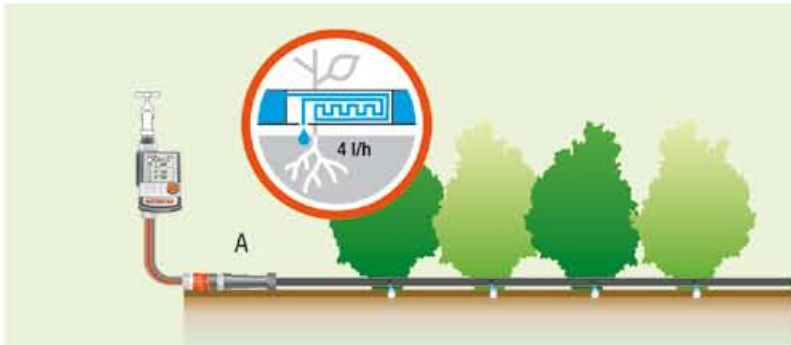
Additional parts are available on request from GARDENA Customer Service.



Drip Irrigation Line – intelligent, conserves Water

The GARDENA Drip Irrigation Lines are permanently installed with the drip heads at intervals of 30 cm which direct the

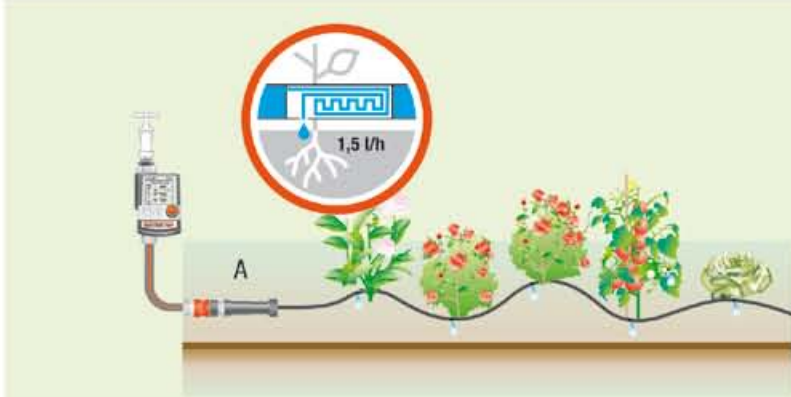
water, precisely metered, to the root area of the plants thus conserving water.



Above Ground Drip Irrigation Lines

With 13 mm (1/2") diameter, an easy-to-install solution for e.g. hedges. The max. pipe length is 100 m (when Master Unit (A) is fitted in the middle).

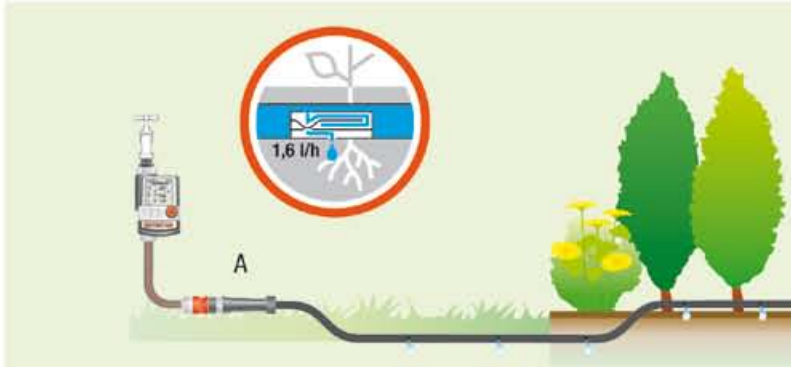
Starter Set 50 m incl. Master Unit Art. No. 1385 Extension pipe 50 m Art. No. 1386.



With 4.6 mm (3/16"), it is particularly suited for flexible installation in, e.g., vegetable and flower beds. Max. pipe length is 30 m (when Master Unit (A) is fitted in the middle).

Starter Set 15 m with Master Unit Art. No. 1361 Extension pipe 15 m Art. No. 1362.

Channeling and extensions for both pipe diameters are undertaken with Micro-Drip-System units.



Below and Above Ground Drip Irrigation Lines

Ideal for non-visible, subterranean installation, e.g. in rows of plants or in lawns with 13.7 mm diameter. Max. pipe length up to 200 m (when Master Unit (A) is fitted in the middle). Installation depth in plant area approx. 20 cm, in lawns approx. 10 cm. Pipe spacing for lawn irrigation approx. 30 cm.

Starter Set 50 m with Master Unit Art. No. 1389 Extension set 50 m Art. No. 1395.

Can also be installed above ground. Required additional parts may be obtained from GARDENA customer service.

GARDENA Micro-Drip-System

The components at a glance



1 Master Units
Art. No. 1354
Water flow up to
2,000 l/h



Art. No. 1355
Water flow up to
1,000 l/h



2 Installation Tool
Art. No. 8322



3 Connecting Pipe
13 mm 1/2"
Art. No. 1346, 15 m
Art. No. 1347, 50 m



4 Supply Pipe
4.6 mm 3/16"
Art. No. 1348, 50 m
Art. No. 1350, 15 m



5 Pipe Clips
Art. No. 8380
13 mm 1/2"
Contents: 2 pieces
Art. No. 8379
4.6 mm 3/16"
Contents: 5 pieces



6 Pipe Guide
Art. No. 8328
13 mm 1/2"
Contents: 3 pieces
Art. No. 8327
4.6 mm 3/16"
Contents: 3 pieces



7 Pipe Pegs
Art. No. 1327
4.6 mm 3/16"
Contents: 10 pieces



8 Control/Shut-Off Valves
Art. No. 8358
13 mm 1/2"
Art. No. 8357
4.6 mm 3/16"
Contents: 2 pieces



9 T-Joints
Art. No. 8329
13 mm 1/2"
Contents: 2 pieces
Art. No. 8330
4.6 mm 3/16"
Contents: 10 pieces



10 Connectors
Art. No. 8356
13 mm 1/2"
Contents: 3 pieces
Art. No. 8337
4.6 mm 3/16"
Contents: 10 pieces



11 L-Joints
Art. No. 8382
13 mm 1/2"
Contents: 2 pieces
Art. No. 8381
4.6 mm 3/16"
Contents: 10 pieces



12 4-Way Couplings
Art. No. 8339
13 mm 1/2"
Contents: 2 pieces
Art. No. 8334
4.6 mm 3/16"
Contents: 10 pieces



13 Reducing T-Joint
Art. No. 8333
13 mm 1/2"
Contents: 5 pieces



14 Plugs
Art. No. 8324
13 mm 1/2"
Contents: 5 pieces
Art. No. 1323
4.6 mm 3/16"
Contents: 10 pieces



15 T-Joints for Spray Nozzles
Art. No. 8331
13 mm 1/2"
Contents: 5 pieces
Art. No. 8332
4.6 mm 3/16"
Contents: 5 pieces



16 Endline Drip Head
Art. No. 1340, 2 l/h
(red)
Art. No. 1341, 4 l/h
(black)
Contents: 25 pieces



17 Endline Drip Head**
pressure-regulating,
self-cleaning,
self-closing
Art. No. 8310
2 l/h
Contents: 10 pieces



18 Adjustable Endline Drip Head
Art. No. 1391
0 - 20 l/h
Contents: 10 pieces



19 Adjustable Endline Drip Head **
pressure equalizing (a),
with amount indicator,
self-cleaning (b)
Art. No. 8316
1 - 8 l/h
Contents: 5 pieces



20 Inline Drip Head
Art. No. 8343, 2 l/h
Art. No. 8344, 4 l/h
Contents: 10 pieces



21 Inline Drip Head**
pressure-regulating,
self-cleaning,
self-closing
Art. No. 8311
2 l/h
Contents: 10 pieces



22 Adjustable Inline Drip Head
Art. No. 8392
0 - 20 l/h
Contents: 10 pieces



23 Adjustable Inline Drip Head **
pressure equalizing (a),
with amount indicator,
self-cleaning (b)
Article No. 8317
1 - 8 l/h
Contents: 5 pieces



24 Small Area Spray Nozzle
Art. No. 8320
Ø 10 - 40 cm
Contents: 10 pieces



25 Small Area Spray Nozzle
Art. No. 8321
4.6 mm (3/16")
Ø 10 - 40 cm
Contents: 10 pieces



26 Spray Nozzle 360° Art. No. 1365
Contents: 5 pieces
180° Art. No. 1367
Contents: 5 pieces
90° Art. No. 1368
Contents: 5 pieces



27 Micro Strip Sprinkler
Art. No. 1370
Contents: 5 pieces



28 Endline Micro Strip Sprinkler
Art. No. 1372
Contents: 5 pieces



29 Micro Mist Nozzle
Art. No. 1371
Ø 1 m
Contents: 5 pieces



30 Micro Rotor Sprinkler 360°
Art. No. 1369
Ø 3 - 7 m
Contents: 2 pieces



31 6-Pattern Spray Nozzle
90°, 180°, 270°, 360°, strips, end strips
Art. No. 1396
Contents: 2 pieces



32 Oscillating Sprinkler Vario 50
Art. No. 8360



33 Extension Pipe for Vario 50
Art. No. 8362
Length 20 cm
Contents: 2 pieces



34 Extension Pipe for Spray Nozzles
Art. No. 1377
Length 24 cm
Contents: 5 pieces



35 Control Valve for Spray Nozzles
Art. 1374
Contents: 5 pieces

Multi-functional pipe-guiding technology:

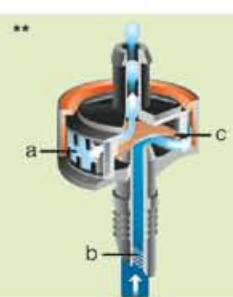
Exact pipe- (A) and spray nozzle positioning (B). Watering high plants and beyond (C). Fixation in ground or on solid foundation (D).



36 Fertilizer Dispenser
With level indicator
Article No. 8313



37 Universal Liquid Fertilizer
Fully water-soluble fertiliser
concentrate,
1 litre bottle
Article No. 8303



Perfection in drip irrigation

- (a) Automatic pressure control for even water distribution (2 l/h) along the entire pipe
- (b) Self-cleaning and with integrated filter for maintenance-free operation
- (c) Drip heads close automatically when the system is put out of operation for extra water conservation

GARDENA Micro-Drip-System

Basic planning

The number of outlets that can be operated in one supply line differs according to the type of drip heads and spray nozzles you choose to install.

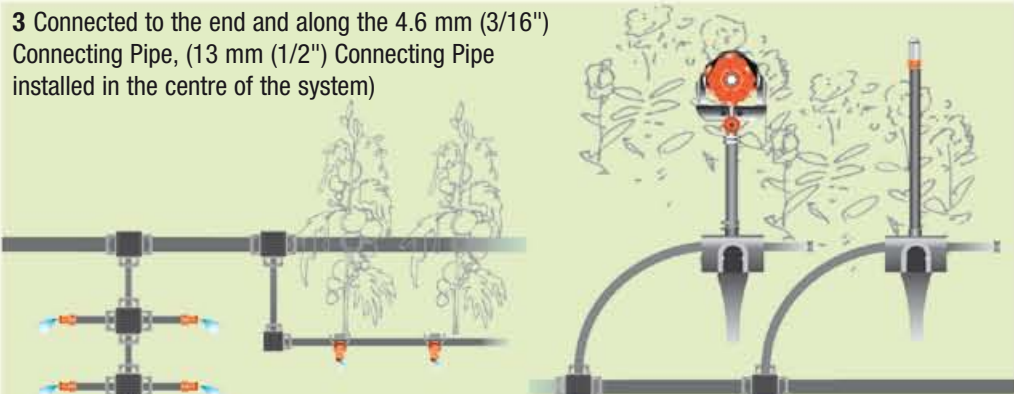
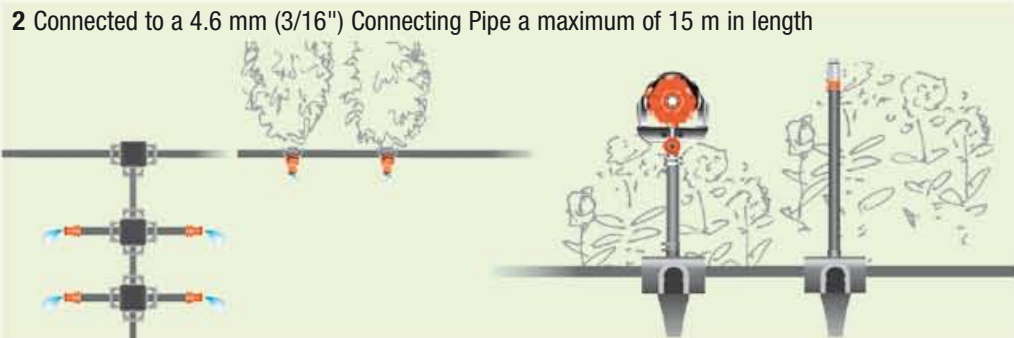
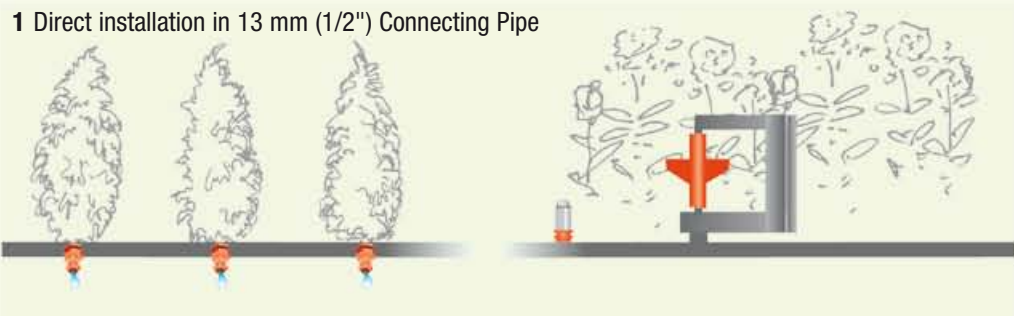
The table shows the number of drip heads and nozzles you can connect to the Master Unit 2000 for different irrigation system installations.

Connection capacity of Master Unit 2000			
Drip heads/nozzles			
	Number for installation 1	Number for installation 2	Number for installation 3
1340/8310 Endline Drip Head, 2-litre	400	50	1000
1341 Endline Drip Head, 4-litre	200	25	500
8343/8311 Inline Drip Head, 2-litre	-	25	500
8344 Inline Drip Head, 4-litre	-	12	250
1365 Spray Nozzle 360°	20	1	16
1367 Spray Nozzle 180°	26	1	18
1368 Spray Nozzle 90°	32	2	24
1369 Micro Rotor Sprinkler	25	1	18
1370 Micro Strip Sprinkler	30	2	30
1371 Micro Mist Nozzle	50	4	50
1372 Endline Micro Strip Sprinkler	30	2	30
8320 Small Area Nozzle	30	-	-
8321 Small Area Nozzle	-	4	30
8360 Oscillating Sprinkler Vario 50	4	-	-

For Master Unit 1000 you should half the number of Drip Heads and Spray Nozzles listed in the table. The table assumes that the Master Unit 2000 is installed in the centre of your irrigation system (Figure A).



If the Master Unit is installed at the start of the pipe network as shown in example B you must half the maximum number of Drip Heads and Spray Nozzles.



GARDENA

Automatic Irrigation

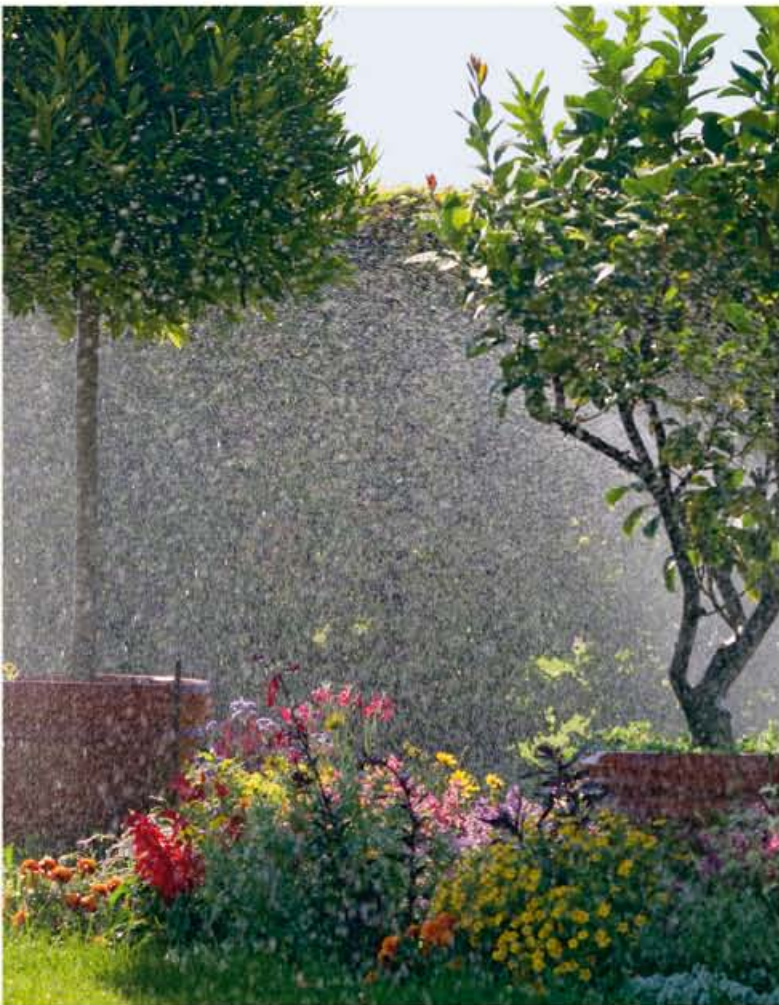


Water Timers for the tap



A light drizzle in the early morning? A short, refreshing shower late at night? Or do you need your garden to water itself while you are away on holiday? No problem at all! With the GARDENA Water Timers and Computers you decide when and for how long it rains.

From Water Computers connected to the tap for controlling one irrigation line to larger irrigation systems with several irrigation lines, the GARDENA Water Timers and Computers water your garden automatically without you having to lift a finger. It doesn't get any easier than this!



Multi-channel control for larger irrigation systems



Accessories that save water:
GARDENA Soil Moisture Sensor/Rain Sensor electronic.
 Prevents or interrupts automatic irrigation when it rains or when soil is sufficiently moist.
 That optimises irrigation in your absence and helps to save water. Suitable for the Water Timers T 1030 plus, T 1030 card, for the Water Computers, as well as for the GARDENA Controller and the Irrigation Control Systems 4030, 6030 and 4040 modular.

GARDENA

Water Timers and Computers



Programmed fun in the garden

GARDENA Water Timers and Water Computers relieve you of watering. Operation using the rotary knob or the user guidance on a large LCD display make programming easy. You can select the starting time, watering duration and watering frequency for automatic irrigation of your garden right away!

Meets your requirements

CLASSIC

For the beginner:
With standard programming options. Easy operation with rotary knob.

COMFORT

For the demanding user:
Variable programming option. Large LCD display with a good overview.

PREMIUM

For the specialist:
Highly individual programming options through 6 watering programmes. On-screen instructions with selectable languages explain programming steps. Top model with solar panel for self-sufficient energy supply.

	CLASSIC				COMFORT			PREMIUM	
									
Article	Water Timer	Water Timer T 1030 D	Water Timer Electronic T 1030 plus	Automatic Irrigation Set A 1020 Sensor	Water Timer T 1030 card	Watering Computer C 1030 plus	Watering Computer C 2030 duo plus	Watering Computer C 1060 plus	Watering Computer C 1060 solar plus
Art. No.	1169	1825	1860	1835	1830	1862	1874	1864	1866
auto on/off	auto off	yes	yes	yes	yes	yes	yes	yes	yes
Watering period	5-120 min	1-120 min	1-120 min	1-120 min	1-180 min	1 min - 7 h 59 min	1 min - 3 h 59 min	1 min - 9 h 59 min	1 min - 9 h 59 min
Watering frequency		every 8/12/24 hours weekdays can be selected	every 8/12/24 hours every 2nd/3rd/7th day	every 8/12/24 hours every 2nd/3rd/7th day	every 8/12/24 hours every 2nd/3rd/7th day	every 8/12/24 hours every 2nd/3rd/7th day free selection of watering days	every 8/12/24 hours every 2nd/3rd/7th day free selection of watering days	every 24 hours, every 2nd/3rd/4th/5th/6th/7th day free selection of watering days	every 24 hours, every 2nd/3rd/4th/5th/6th/7th day free selection of watering days
Start watering	when activated	can be selected at 1 h intervals	can be selected at 1 h intervals	when activated	can be selected at 1 h intervals	freely selectable	freely selectable	freely selectable	freely selectable
Sensor connection	–	–	yes	Soil moisture sensor included	yes	yes	yes, per outlet	yes	yes
Miscellaneous		With low battery display	With low battery display	With low battery display Use as sensor only is possible = watering when soil moisture is too low	With low battery display Simple card reader technology Childproof 0 bar function for pressure-free rain-water use	Battery level display Use as sensor only is possible = watering when soil moisture is too low	Battery level display Outlets can be programmed independently of each other Battery-level display, exclusive sensor operation at night is possible: Watering when soil moisture too low	Battery level display as with C 1030 plus, additionally 6 independent programmes, operation of up to 6 irrigation lines with the Water Distributor automatic (Art. No. 1197)	Battery level display as with C 1030 plus, additionally 6 independent programmes, operation of up to 6 irrigation lines with the Water Distributor automatic (Art. No. 1197) energy-saving solar operation

Water Distributor automatic,
In combination with a Premium model - you can use this to control fully automatic irrigation of up to 6 irrigation areas. Ideal for plant areas with varying requirements or when the water pressure is too low for simultaneous irrigation. If there are less than six areas, up to 4 outlets can be simply and easily deactivated. Art. No. 1197



Flexible – The Modular Multi-Channel Control

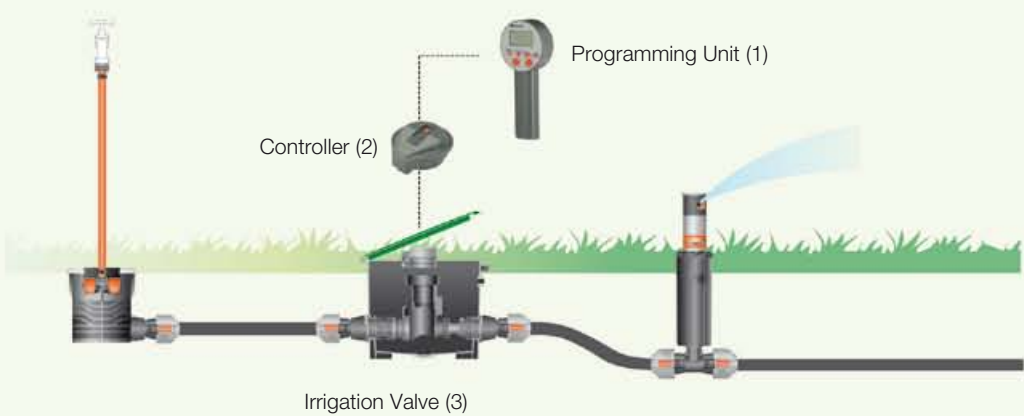


Cable-free – independent from the mains

Particularly when the water pressure is not sufficient to operate the whole system at once and you need to water in stages. But also if your plants have different water requirements.

GARDENA Direct Irrigation Valve Programming
Water up to 6 times a day with each GARDENA Irrigation Valve. Just enter the data into the Programming Unit (1) and press the button to transfer it to the Controller (2). Now fit the Controller to the Irrigation Valve (3). That's it. Battery operation renders GARDENA Irrigation Valves independent from the power supply. Thus you can control any number of irrigation lines fully automatically and cable-free.

If you have a fixed irrigation system such as the GARDENA Pop-up Sprinklersystem for watering lawns all over, you should rely on a GARDENA Multi-channel Control System.

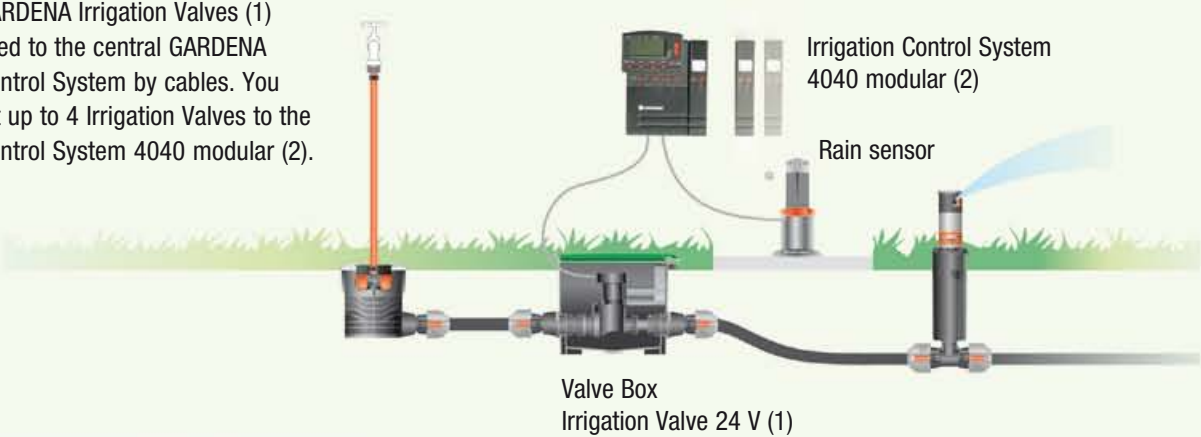


Centrally controlled – everything in view

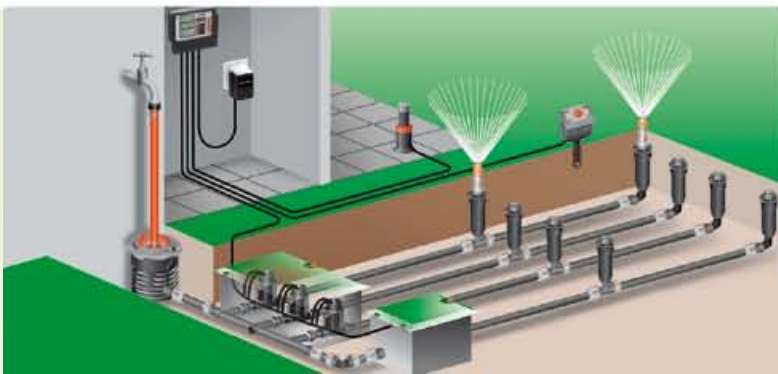
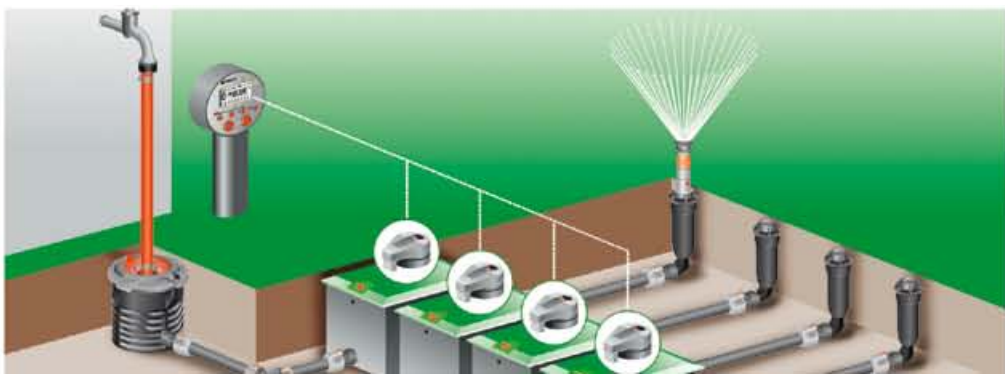
Watering Control

The control technology enables you to control and monitor all irrigation from one point. All GARDENA Irrigation Valves (1) are connected to the central GARDENA Irrigation Control System by cables. You can connect up to 4 Irrigation Valves to the Irrigation Control System 4040 modular (2).

You can install up to 8 additional irrigation valves using the GARDENA Expansion Modules 2040. These are connected to the main unit. Thus you have a maximum capacity of 12 irrigation lines in total.



CLASSIC					COMFORT						
Art. 1242	Art. 1250	Art. 1251	Art. 1254	Art. 1255	Art. 1283/1284	Art. 1276	Art. 1277	Art. 1278	Art. 1280	Art. 1282	Art. 1273
Programming Unit	Controller	Irrigation Valve 9 V	Valve Box V1 and V3		Irrigation Control Systems 4030/6030	Irrigation Control System 4040 modular	Expansion Module 2040	24 V Irrigation Valve	Connection Cable 24 V	24 V Cable Clip	24 V Pump Control System
Watering duration: 1 min - 9 h 59 min, Watering frequency: up to 6 x daily per Irrigation Valve	The actual brain of the irrigation system. Can be connected to the Soil Moisture Sensor and Rain Sensor	Opens and closes an irrigation line at the command of the Controller. Energy-saving electromagnetic valve system	For underground instalment of 1 - 3 Irrigation Valves, for 9 V or 24 V Irrigation Valves, telescopic screw fixing for easy valve assembly or dismantling, with Valve Box V3 water supply can be from any of 3 sides possible.		For use indoors or in rain-protected areas for up to 4 or 6 Irrigation Valves 24 V. 3 programmes per valve possible.	For use outdoors for control of up to 4 Irrigation Valves 24 V. Can be extended up to 12 valves. 4 programmes per valve possible.	For the Irrigation Control System 4040 modular for additional connection of 2 Irrigation Valves 24 V	Connection to a GARDENA Irrigation Control System via cable	For connection of up to 6 Irrigation Valves to the Irrigation Control System 4040 modular and the Expansion Module 2040	For watertight connection of the Connection Cable to the Irrigation Valves for using the Valve Box V1	For operating a pump in combination with the Irrigation Control System 4040 modular. Complete with 10 m cable. See illustration below on the right.





Changes, also product changes,
may be made.

 **GARDENA®**
Live your garden

