



2018 – 2019



Dear Customer

**Thank you for your interest in LWS and welcome to our 2018-2019 Product Catalogue**

As a one stop shop for all your irrigation requirements you can source your pumps, tanks, pipe work, fittings, valves controllers, sprinklers, drip, golf product and spares from LWS with one call, all at competitive prices.

The team at LWS recognise that you need to complete your projects on time and on budget, with this in mind we do everything we can to ensure you get the right product for the job with excellent technical and sales support.

We stock a vast amount of product and can normally despatch for next day delivery, if you cannot find the product you are looking for or require more technical information please just call us.

Please also note that you can access information on our complete product range at our website [www.lws.uk.com](http://www.lws.uk.com). Once logged on you can see your discounts, net prices, download technical data, save quotations in excel format, place orders and much more !

If you do not have log in details for the website please drop us a line **NOW** and we will get you set up (call 01722 716 969 or email [simon@lws.uk.com](mailto:simon@lws.uk.com)) and we can also send you an Excel spreadsheet with all your pricing and discounts.

Yours sincerely



**Simon Edginton**  
Director

#### **Order Queries**

Should you require any assistance whilst compiling an order do not hesitate to contact a member of our technical team on 0345 230 9697. Please note our conditions of sale at the back of this catalogue.

#### **Order Dispatch**

Orders received for items in stock are normally dispatched within 24 hours. Orders received by 2.00pm can normally be dispatched for next day delivery. However in peak season there maybe additional delays.

#### **Carriage**

Carriage is charged extra and you will normally be notified of costs and options when you order. We use Tuffnells next day service for standard boxes and coils and for large and bulky items we use the Palletway network or we have our own vehicles that can cover some deliveries for Southern UK addresses.

#### **Returned Goods**

Items which have been supplied correctly can only be returned following agreement with our sales department. These will be subject to an administration fee equal to 20% of the price of the goods returned.

#### **Payment**

Payment is normally required in advance. Companies requiring credit terms are required to complete all sections of our Account Application Form (*visit our website for online version*). VAT should be added to all orders at the standard rate.

#### **Installation**

LWS refers projects to our network of independent professional installers (we do not have our own installation teams)

#### **LWS Key Contacts**

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#### **Please Note**

There just isn't room in our catalogue to include everything we sell so you will find many more ranges on the website, alternatively if you cannot find what you need just call one of the team, our product line also includes the follows:

**PVC Pipe & Fittings**  
**ABS Pipe & Fittings**  
**Large bore HPPE pipe in Coils & Sticks**  
**Electrofusion Fittings**  
**Galvanised & Stainless Steel Fittings**

**Fully Packaged Multi Pumpsets**  
**Drainage Pipe & Duct**  
**Sewer Pipe & Fittings**  
**Dosatron Fertiliser Units**  
**Flanged Valves & Fittings**

**Otterbine Aerators**  
**Complete Toro Irrigation Product Range**  
**Rewatec Rain Tanks**  
**Balmoral Tanks**  
**Complete Grundfos & Lowara Range**

## New & Highlight Products



### HDPE GREEN STRIPED 12 bar PIPE

HDPE green striped pipe is a 12 bar rated high density polyethylene pipe. For below ground use on recycled water systems such as irrigation systems and rainwater harvesting. Labelled with 'Non Potable Water and a Green Stripe'

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### RAIN BIRD XF DRIPLINE - Now In DARK BROWN

Rain Bird XF drip line is setting the standard as the professionals choice for quality, and speed of install. Self dispensing coils and more flexible than the competition. Range includes subsurface & check valve models. NOW IN DARK BROWN !

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### PIPE REPAIR FITTINGS

We have included a page dedicated to pipe repair fittings including a variety of specialist fittings including universal slip couplings that work with varying sizes of Metric PE, Imperial PE, Steel, Copper, lead, PVC, ABS and many more.

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### RAIN BIRD MICRO 6mm DRIPLINE

Rain Bird 6mm Micro Dripline is ideal for planters and containers. 15cm or 30cm spacing and 3.0l/h drip rate.

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### RAIN BIRD QF HEADER PIPE - Now In Stock

25mm LDPE header pipe for rapid and professional installation of 16mm drip pipe. Pre installed rotating barbs positioned at either 33cm or 50cm spacing ensure accurate and cost effective systems with significant labour savings.

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### PEDROLLO POWER TANK

The Powertank series of fully packaged and 'ready to install' mini pump sets have been designed for very compact applications and are WRAS approved. Available as fixed or variable speed units they include a 125 litre capacity tank and integral mains water top up arrangement with required AB air break.

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### HPPE PIPE in 6m Straight Lengths

HPPE Black pipe in straight sticks. Available in 25mm, 32mm and 40mm. Ideal for neat above ground installations or valve box spurs. 50mm, 63mm, 90mm & 125mm also available from stock.

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### RAIN BIRD XFCV SERIES DRIPLINE - With Check Valve

The Rain Bird XFCV series drip line is the latest addition to the line and features a heavy duty check valve that prevents water draining from the emitters even in elevation changes up to 2.5m. Perfect for sloping sites and green wall systems.

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### BLAZING SADDLES

A self tapping saddle saves you time during installations. Secures around the pipe with a firm push by hand, screw in the self tapping insert in seconds leaving a 3/4" female BSP thread. No tools needed and no mess.

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### PUMPSTART RELAY

Our NEW Pumpstart Pro is a comprehensive pump control panel with the flexibility to suit all applications including pressure boosting, tank filling & emptying and external 24VAC input from an irrigation controller. Available as a single and three phase unit. New features include BMS output for fault notification plus enhanced motor protection with adjustable underload and overload.

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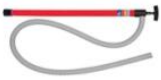
## New & Highlight Products



### RAIN BIRD R-VAN ROTARY NOZZLE-NOW WITH 3 RADIUS & STRIPS

Variable Arc Rotary Nozzles with a radius choice of 2.5m, 5.5m & 7.3m go from 45° - 270° (equivalent to 3 different MP Rotators) in a single unit. Also available in 360° & Strip patterns. Better quality, better performance and better pricing.

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### KING HAND PUMP

King USA utility hand pump for quick removal of water from valve boxes etc. 36" body and 72" flexible discharge hose. Syringe adaptor also available that threads to bottom to enable water extraction from tight spaces such as rotor bodies.

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### RAIN BIRD WPX SERIES

9V Powered IP68 controller range packed with features and ideal for both commercial and domestic systems. Available as 1, 2, 4 & 6 station units with simple programming and large LCD display.

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### RAIN BIRD TBOS BLUETOOTH MODULES

The Rain Bird TBOS-II Control System is a 9v battery powered irrigation control for locations without a mains power supply. Range now extended with additional of Bluetooth modules that allow programming via a free app.

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### RAIN BIRD LNK WiFi MODULE - Remote Access Via Your Smartphone

The new plug in LNK module allows users to access their Rain Bird RZX and ESPMe controllers remotely via an App on your smart phone. It offers a huge number of features including auto program adjustment via online weather service.

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### RAIN BIRD ESP-ME FRONT PANEL UPGRADE TO WIFI

Bring your existing installations up to date with this simple retrofit front panel for pre WiFi enabled Rain Bird ME controllers with a manufacturing date of before November 2016. Great opportunity for up selling benefits to existing customers.

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### RAIN BIRD IQ CLOUD PLATFORM

Offers a simple and cost effective means of remotely connecting to ESPLX controllers via a communication cartridge. Options include GPRS mobile and wired ethernet. Plug the cartridge in, create your free IQ account and you can programme remotely from your PC or tablet and use your phone as a remote control.

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### RAIN BIRD XLR SERIES

With three models to choose from the XLR series of long range impacts allow you to modify your throw range and height. With a choice of nozzle plus variable trajectory your radius of throw can vary from 24m up to 60m.

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### RAIN BIRD 100 SERIES 3" HIGH PERFORMANCE SOLENOID VALVE

The Rain Bird high performance plastic hydraulic control valves with solenoid control combines simple and reliable construction with superior performance. For flow rates from 10m³ up to 80m³ and 10 bar max.

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### POLY & GRP TANKS FOR ABOVE AND BELOW GROUND

We offer a huge range of water storage options from small poly units to large GRP underground rainwater harvesting tanks plus all the associated accessories you might need. Also low profile underground poly tanks from Rewatec and Balmoral for less disruptive installation including the NEW NEO range.

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## Taps, Wall Plates & Accessories



### HOSE UNION BIB TAP WITH DOUBLE CHECK VALVE

Requirement for mains water outside hose connection taps. WRAS Approved

1/2"

BIBDCK015 £6.30

3/4"

BIBDCK020 £12.60



### PEGLER UNION BIB TAP

Required for mains water outside, with outlet pointing straight down. Ideal to use to keep your installation parallel to the wall. WRC Approved.

1/2"

BIBDCKPEG015 £22.50

1/2"

BIBTAPPEG015 £15.00



### PLASSON HOSE UNION BRASS BIB TAP

Bib tap hose union with double check valve

1/2"

PLAS9056015 £13.31

3/4"

PLAS9056020 £36.06



### POUR TAPS

Quarter turn bib tap complete with hose union

1/2"

BIBTAPFF015 £6.88

3/4"

BIBTAPFF020 £10.78

1"

BIBTAPFF025 £14.95



### PLASSON ICE RESISTANT BIB TAP

Quarter turn frost proof bib tap complete with hose union

1/2"

PLASIRV2100 £20.31

3/4"

PLASIRV2100 £31.20

1"

PLASIRV2100 £45.90



### PLASSON BRASS WALL PLATE ELBOW

Brass unit or securing bib tap to post or wall, with compression inlet

20mm to 1/2"

PLAS9055020015 £23.30

25mm to 3/4"

PLAS9055025020 £29.24



### PLASSON PLASTIC WALL PLATE ELBOW

Plastic unit or securing bib tap to post or wall, with compression inlet

20mm to 1/2"

PLAS7750020015 £10.72

25mm to 3/4"

PLAS7750025020 £14.30



### PLASSON PLASTIC WALL PLATE ELBOW

Plasson 1075 push fit

20mm to 1/2"

PLASPO1075020015 £11.48

25mm to 1/2"

PLASPO1075025015 £15.30

25mm to 3/4"

PLASPO1075020020 £15.30



### COPPER COMPRESSION WALL PLATE

Compression inlet with female BSP outlet

15mm x 1/2"

CUCOMWP015015 £7.60

22mm x 3/4"

CUCOMWP020020 £11.90



### TDTEE

Ideal for when additional outlet is required from an outside bib tap by removing the existing bib tap, fitting the TDTEE and refitting the tap it provides you with a 1/2" or 3/4" male outlet. (a double check valve should be fitted to the new outlet).

1/2"

TDTEE015 £6.08

3/4"

TDTEE020 £8.03



### DOUBLE CHECK VALVE

To prevent backflow and cross contamination of the mains water supply. WRC Approved BSP threads.

1/2"

DCK015 £24.49

3/4"

DCK020 £50.78

1"

DCK025 £89.25



### TYPE DB PIPE INTERRUPTOR

Should be installed on all private irrigation systems (supplied via a mains water supply) that have irrigation product installed at ground level or less than 15cm above ground level i.e. drip line. Phone for full details of use.

3/4"

PIPEINTERNAB256B £86.00

## Brass Quick Couplers & Fittings



**THREADED TAP CONNECTOR**  
 $\frac{3}{4}$ " BSP female to quick connect male

$\frac{1}{2}$ "	BQCTTC015	<b>£1.97</b>
$\frac{3}{4}$ "	BQCTTC020	<b>£1.97</b>
1"	BQCTTC025	<b>£3.13</b>



**MALE ADAPTOR**  
 $\frac{3}{4}$ " BSP male to quick connect male

$\frac{1}{2}$ "	BQCMA015	<b>£1.86</b>
$\frac{3}{4}$ "	BQCMA020	<b>£1.91</b>



**MALE CONNECTOR**  
 $\frac{3}{4}$ " BSP Male to female quick connect

$\frac{3}{4}$ "	BQCHCM 020	<b>£5.90</b>
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**HOSE TO BAYONET CONNECTOR**  
 Hose to female quick connect

$\frac{1}{2}$ "	BQCHCN015	<b>£5.30</b>
$\frac{3}{4}$ "	BQCHCN020	<b>£6.37</b>



**HOSE TO BAYONET CONNECTOR**  
 Hose to female quick connect with shut-off valve

$\frac{1}{2}$ "	BQCHCV015	<b>£6.31</b>
$\frac{3}{4}$ "	BQCHCV020	<b>£7.18</b>



**HOSE COUPLER**  
 To join two female quick connectors

ALL	BQCHCPALL	<b>£2.31</b>
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**HOSE CONNECTOR**  
 To join two lengths of hose together

$\frac{1}{2}$ "	BQCHCJ015	<b>£4.39</b>
$\frac{3}{4}$ "	BQCHCJ020	<b>£5.67</b>



**REVOLVING ELBOW**  
 For hose reels and hydrants

$\frac{3}{4}$ "	BQCRE020	<b>£6.31</b>
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**SINGLE CHECK VALVE**  
 Female inlet and male outlet

$\frac{1}{2}$ "	BQCCV015	<b>£4.08</b>
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**TWO WAY Y SPLITTER**  
 $\frac{3}{4}$ " BSP female inlet with two quick connect male outlets.

$\frac{3}{4}$ "	BQCTWC020	<b>£15.95</b>
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**TWO WAY Y SPLITTER**  
 $\frac{3}{4}$ " BSP female inlet with two  $\frac{3}{4}$ " male BSP outlets.

$\frac{3}{4}$ "	BQCTWCM020	<b>£15.95</b>
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**TWO WAY T SPLITTER**  
 $\frac{3}{4}$ " BSP female inlet with two  $\frac{3}{4}$ " male BSP outlets.

$\frac{3}{4}$ "	BQMAN2020	<b>£19.22</b>
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**THREE WAY T SPLITTER**  
 $\frac{3}{4}$ " BSP female inlet with three  $\frac{3}{4}$ " male BSP outlets.

$\frac{3}{4}$ "	BQMAN3020	<b>£28.04</b>
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**GEKA TO HOSE ADAPTOR**  
 Hose to Geka type connector

$\frac{1}{2}$ "	BQGEKA015	<b>£5.04</b>
$\frac{3}{4}$ "	BQGEKA020	<b>£5.73</b>



## Geka Type Fittings



### QUICK COUPLER WITH HOSE CONNECTION

#### SIZE

1/2"  
3/4"  
1"  
1 1/4"

QCHT015	£2.54
QCHT020	£2.73
QCHT025	£3.29
QCHT032	£4.32



### QUICK COUPLER WITH A FEMALE BSP THREAD

1/2"  
3/4"  
1"  
1 1/4"

QCFT015	£2.58
QCFT020	£2.58
QCFT025	£2.69
QCFT032	£3.83



### QUICK COUPLER WITH A MALE BSP THREAD

1/2"  
3/4"  
1"  
1 1/4"

QCMT015	£2.50
QCMT020	£2.62
QCMT025	£2.69
QCMT032	£3.34



### BLANK COUPLER

For all sizes of quick couplers and connectors

QCBLANK	£2.70
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### THREE WAY QUICK COUPLER

QCTHREE	£12.85
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### QUICK COUPLER REPLACEMENT RUBBER SEALING RING

QCSEAL	£0.27
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### QUICK COUPLER WITH WATERSTOP

Disconnects water supply when uncoupled

3/4"

QCWS020	£19.69
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### GEKA "SOFTRAIN" WATERING LANCE

Comes complete with metal valve and rose giving an output of 51 litres/min at 6 bar

#### LENGTH

600mm  
900mm  
1200mm

GEKAM0600	£40.32
GEKAM0900	£43.20
GEKAM1200	£47.28



### GEKA "SOFTRAIN" WATERING LANCE

Comes complete with plastic valve and rose giving an output of 47 litres/min at 6 bar.

#### LENGTH

600mm

GEKAP0600	£32.40
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### TRIGGER NOZZLE

Robust multi nozzle hand held watering pistol. Soft PVC body. Six different spray patterns 3/4" female and male click connector.

BQTRIGGERNOZZ	£11.52
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### MAGNUM HEAVY DUTY SPRAYER

Magnum heavy duty jet-spray nozzle

MAGNUMNOZ	£68.00
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## Hose Reels & Trolleys



### WALL MOUNTED HOSE HANGER

A heavy duty steel professional hose hanger for direct fixing to inner or outer walls

Capacity 100 metres of ½" hose or 50 metres ¾" hose.

HOSEHANG **£46.45**



### PORTABLE LIGHTWEIGHT HOSE REEL

Portable hosereel with galvanised steel frame and orange plastic reel. Complete unit with ½" hose connectors. Holds 50m of ½" hose.

HOSEREEL52AG05 **£30.40**



### HEAVY DUTY WALL MOUNTED HOSE REEL

A well engineered wall mounted hose reel, made from tubular steel. Available with or without swivel mechanism. Complete unit with ½" hose connectors. Holds 50m of ½" hose.

Standard Reel  
Swivel Reel

HOSEREEL521310 **£145.31**  
HOSEREEL522510 **£179.48**



### SMALL HOSE TROLLEY

Small size hose trolley made from epoxy coated steel tubing. Complete with ½" hose connectors, holds 70m of ¾" or 100m of ½" hose.

HOSETROL520212 **£147.13**



### MEDIUM HOSE TROLLEY

Medium size hose trolley made from epoxy coated steel tubing. Complete with ½" hose connectors and stabilisers, holds 150m of ½" hose or 100m of ¾" hose.

HOSETROL520419 **£246.24**



### LARGE HOSE TROLLEY

Large size heavy duty professional hose trolley made from coated steel. Complete with quick couplings and pneumatic tyres, holds 120m of ¾" hose or 80m of 1" hose.

HOSETROL520825 **£479.10**



### STAINLESS STEEL HOSE TROLLEY

Small size hose trolley made from stainless steel tubing. Complete with ½" hose connectors, holds 70m of ¾" or 100m of ½" hose.

HOSETROLLEYSS **£207.44**

*(More trolley options available, please call for details)*

## Garden & Layflat Hose



### TRICOFLEX REINFORCED YELLOW PVC HOSE

The professional gardeners choice in hose. Quality PVC hose and resistant to UV rays and abrasion. With Anti-kink technology. 12 bar working pressures for ½" and ¾" and 11 bar for 1".

25mtrs	½"	HOSETRI015-025	<b>£32.98</b>
50mtrs	½"	HOSETRI015-050	<b>£65.97</b>
100mtrs	½"	HOSETRI015-100	<b>£131.94</b>
25mtrs	¾"	HOSETRI020-025	<b>£57.15</b>
50mtrs	¾"	HOSETRI020-050	<b>£114.30</b>
100mtrs	¾"	HOSETRI020-100	<b>£242.00</b>
25mtrs	1"	HOSETRI025-025	<b>£95.75</b>



### TORSINO REINFORCED YELLOW PVC HOSE

Professional grade PVC hose resistant to UV rays and abrasion. With Anti-kink technology. 10 bar working pressures for ½" and ¾" and 8 bar for 1"

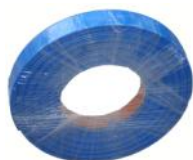
25mtrs	½"	HOSETOR015-025	<b>£28.05</b>
50mtrs	½"	HOSETOR015-050	<b>£56.10</b>
100mtrs	½"	HOSETOR015-100	<b>£112.20</b>
25mtrs	¾"	HOSETOR020-025	<b>£50.05</b>
50mtrs	¾"	HOSETOR020-050	<b>£100.10</b>
100mtrs	¾"	HOSETOR020-100	<b>£200.20</b>
25mtrs	1"	HOSETOR025-025	<b>£80.85</b>
50mtrs	1"	HOSETOR025-050	<b>£161.70</b>
100mtrs	1"	HOSETOR025-100	<b>£323.40</b>



### MEGASTAR REINFORCED GREEN HOSE

A new generation of garden hose that out performs all others. Made from high quality materials with anti-kink and twist. UV and anti algae. Light and flexible even at low temperatures. The best hose on the market. 10 bar working pressure.

30mtrs	½"	HOSEMEG015-030	<b>£37.05</b>
50mtrs	½"	HOSEMEG015-050	<b>£61.75</b>
25mtrs	¾"	HOSEMEG020-025	<b>£57.00</b>
50mtrs	¾"	HOSEMEG020-050	<b>£114.00</b>



### LAYFLAT HOSE

Medium duty blue layflat hose 0 - 8 bar working pressure.  
Price per metre

1¼"	HOSELAY032	<b>£1.62</b>
1½"	HOSELAY040	<b>£2.08</b>
2"	HOSELAY050	<b>£2.80</b>

*See pump accessories for Suction Hose.*

*Larger sizes & higher pressure rated options are available on request.*

Hose Type	Size	Jubilee Clip	Size	Mikalor Clip	Size
Tricoflex	½"	JUBMOO	11-16mm	NA	NA
	¾"	JUBOX	18-25mm	MIKSS025027	25-27mm
	1"	JUB1A	22-30mm	MIKSS031034	31-34mm
	1¼"	JUB1X	30-40mm	MIKSS040043	40-43mm
Torsino	½"	JUBMOO	11-16mm	NA	NA
	¾"	JUBOX	18-25mm	MIKSS025027	25-27mm
	1"	JUB1A	22-30mm	MIKSS031034	31-34mm
	1¼"	JUB1X	30-40mm	MIKSS040043	40-43mm
Megastar	½"	JUBMOO	11-16mm	NA	NA
	¾"	JUBOX	18-25mm	MIKSS025027	25-27mm
	1"	JUB1A	22-30mm	MIKSS031034	32-35mm
	1¼"	JUB1X	30-40mm	MIKSS040043	40-43mm
Layflat	1"	JUB1	25-30mm	MIKSS025027	25-27mm
	1¼"	JUB1X	30-40mm	MIKSS034037	34-37mm
	1½"	JUB2A	35-50mm	MIKSS040043	40-43mm
	2"	JUB2X	40-55mm	MIKSS051055	51-55mm
	2½"	NA	NA	MIKSS063068	63-68mm

## Clips, Clamps and Camlocks

### JUBILEE CLIPS

The genuine article. Mild steel zinc plated



#### SIZE

9.5 - 12mm	JUB009012	£0.54
11 - 16mm	JUB011016	£0.55
13 - 20mm	JUB013020	£0.56
18 - 25mm	JUB018025	£0.66
22 - 30mm	JUB022030	£0.70
25 - 35mm	JUB025035	£0.72
30 - 40mm	JUB030040	£0.75
35 - 50mm	JUB035050	£0.80
45 - 60mm	JUB045060	£0.88

### MIKALOR CLAMP

Mikalor stainless steel hose clamp with stainless steel screw.



#### SIZE

17-19mm	MIKSS017019	£4.18
19-21mm	MIKSS019021	£3.44
21-23mm	MIKSS021023	£3.64
24-25mm	MIKSS024025	£4.22
25-27mm	MIKSS025027	£4.34
27-29mm	MIKSS027029	£3.54
29-31mm	MIKSS029031	£4.32
31-34mm	MIKSS031034	£5.82
34-37mm	MIKSS034037	£7.10
37-40mm	MIKSS037040	£4.96
40-43mm	MIKSS040043	£5.12
43-47mm	MIKSS043047	£6.40
47-51mm	MIKSS047051	£5.22
51-55mm	MIKSS051055	£7.52
55-59mm	MIKSS055059	£6.58

### POLY CAMLOCK PART B

Female Lever Coupling with Male BSP Thread



3/4"	CAMBPP020	£4.18
1"	CAMBPP025	£4.76
1 1/4"	CAMBPP032	£7.26
1 1/2"	CAMBPP040	£7.88

### POLY CAMLOCK PART C

Female Lever Coupling with hose tail



3/4"	CAMCPP020	£4.48
1"	CAMCPP025	£4.82
1 1/4"	CAMCPP032	£8.16
1 1/2"	CAMCPP040	£6.86

### POLY CAMLOCK PART D

Female Lever Coupling with female BSP Thread



3/4"	CAMDPP020	£4.30
1"	CAMDPP025	£4.62
1 1/4"	CAMDPP032	£7.00
1 1/2"	CAMDPP040	£6.92

### POLY CAMLOCK PART E

Male Coupling with hose tail



3/4"	CAMEPP020	£1.04
1"	CAMEPP025	£1.12
1 1/4"	CAMEPP032	£2.24
1 1/2"	CAMEPP040	£2.16

### POLY CAMLOCK PART F

Male Coupling with Male BSP Thread



3/4"	CAMFPP020	£1.02
1"	CAMFPP025	£0.96
1 1/4"	CAMFPP032	£1.98
1 1/2"	CAMFPP040	£1.92

*All Camlock fittings are available in aluminium on request*

## Manual Sprinklers & Accessories



### 3/4" BRASS IMPACT SPRINKLER

3/4" full and part circle brass impact with female thread inlet. 3.9mm nozzle as standard with low pressure spoon drive and stainless steel axle. Up to 14m radius.

SPRNANBRASSLFC **£34.08**



### METAL IMPACT SPRINKLER

1/2" full and part circle impact male thread inlet. 5mm nozzle standard. Fingertip adjustment for watering up to 13 metre radius. Baffle deflector controls height of jet and diameter of circle. Diffuser pin adjusts from heavy to fine stream.

SPRNAANBRSS015 **£15.24**



### RAIN BIRD MAXI-BIRD 2045

The Rain Bird Maxi-Bird 2045 is a 1/2" plastic impact sprinkler with fingertip adjustment for watering from 6.7 up to 13.7 metre radius. Working pressure between 1.7 - 4.1 bar and flow rates of 0.34 - 1.91m³/h. Full and Part circle set-up in one unit.

RBMAXBIRD2045 **£22.40**



### POPE ROTOFRAME SPRINKLER

Low pressure sprinkler. Features a rotating spinner and rotary frame giving even water distribution.

1/2" female connection

SPROTOFRM015 **£9.84**

3/4" female connection

SPROTOFRM020 **£10.32**



### RAINTRAIN

Self propels along the ground following pattern laid out by the hose. Automatic shut off of the sprinkler. Diameter coverage 4.5 mtrs - 13.5 mtrs. Working pressure 2.8bar.

NELSONRAINTRAN **£105.10**



### PERROT ROLL CART

Heavy duty high quality travelling impact sprinkler for large turf areas. Requires min 3.5 bar at the cart and a flow of 3m³ per hour. Max width of irrigation on single pass 36m and max travelling speed 20 metres per hour. Requires 1" hose.

SPRTRAVPRC **£1,232.00**



### STANDPIPE

Made of galvanised steel - with ground spike and stabilising plate. 1 metre high riser in a 1" tee with 2 quick couplings.

SPRGALVSPIKE **£37.20**



### COBRA SPRINKLER BASE

Made from heavy duty steel tube and powder coated. Unit supplied with 3/4" quick coupling. Riser height 12"

SPRCOBRA **£27.00**



### SLED BASE

Made from zinc plated steel tube with 3/4" riser and elbow. Supplied with quick coupling. Riser height 12". Ideal for use with 1/2" impact sprinkler, sled can be moved when working.

SPRSLED **£29.88**



### GALVANIZED SLED BASE

Made from galvanized steel tube with a 3/4" riser and elbow. Supplied with a quick coupling. Riser Height 12". Ideal for use with a 1/2" impact sprinkler, sled can be moved when working. (1" & 1 1/2" Units also available).

SPRSLEDGLV **£33.90**



### TRIPOD

Tripod made of zinc plated steel. Telescopic central support adjustable from 70cm to 120cm height. Inlet and outlet threaded 3/4" male. Supplied with PP hosetail.

SPRTRIPODA020 **£26.88**



### SPRINKLER SPIKE BASE

A metal sprinkler spike with 3/4" female BSP inlet. Accepts all standard 1/2" male BSP sprinkler. Suited for static or pulsating sprinkler heads. Supplied with tapered hosetail connector accepting standard 1/2" or 3/4" garden hose.

SPRSPIKE **£5.41**



## Rain Bird Dripline

### RAIN BIRD XF DRIPLINE - 1.6 & 2.3l/h

Rain Bird XF Series is the most flexible and kink-resistant option on the market. Ideal for irrigating all types of planted area and hedges where its durability and efficiency make it the professional contractors choice.

- Flexibility allows for tight curves and switchbacks
- Self dispensing coils for rapid installation
- Built-in pressure compensation emitter providing constant flow over entire lateral length, ensuring uniform water distribution
- Dual-layered construction provides unmatched resistance to chemicals, algae growth and UV damage
- Unmatched clog resistance for long term reliability
- Brown colour makes in practically invisible under mulch or on the ground
- Flow rate: 1.6l/h or 2.3l/h per emitter and pipe diameter 16mm
- Emitter spacing: 33cm, 40cm and 50cm
- Compact coils great for trade counter and web retail sales
- Coil sizes: 25m, 50m and 100m (model dependant)
- Maximum run length of 144 metres @ 2.4 bar pressure for 1.6l/h, 121 metres @ 2.4 bar pressure for 33cm spacing, 127 metres @ 2.4 bar pressure for 40cm spacing and 152 metres @ 2.4 bar pressure for 50cm spacing.
- Available in dark brown for 33cm spacing.

Self Dispensing Coils

Now available in  
DARK BROWN



XFD 1.6l/h 33cm x 100m	RBXFD1633100	£64.50
XFD 2.3l/h 33cm x 25m	RBXFD2333025-DB	£18.20
XFD 2.3l/h 33cm x 50m	RBXFD2333050-DB	£33.70
XFD 2.3l/h 33cm x 100m	RBXFD2333100-DB	£64.50
XFD 2.3l/h 40cm x 100m	RBXFD2340100	£59.60
XFD 2.3l/h 50cm x 100m	RBXFD2350100	£54.10

### RAIN BIRD XF CV DRIPLINE - 2.3l/h (ideal for slopes and greenwalls)

The RainBird XFCV series dripline is the latest addition to the range and has been specifically designed with Rain Bird's patent-pending 3.5psi check valve technology. This allows the dripline to stay charged with water at all times, increasing uniformity of watering and conserves water by eliminating the need to recharge the line at the beginning of each cycle. Also ideal for sloping sites and greenwalls.

- 3.5psi check valve technology holds back up to 2.5m elevation
- Flexibility allows for tight curves and switchbacks
- Self dispensing coils for rapid installation
- Built-in pressure compensation emitter providing constant flow over entire lateral length, ensuring uniform water distribution
- Dual-layered construction provides unmatched resistance to chemicals, algae growth and UV damage
- Unmatched clog resistance for long term reliability
- Brown colour makes in practically invisible under mulch or on the ground
- Flow rate: 2.3l/h per emitter and pipe diameter 16mm
- Emitter spacing: 33cm
- Coil sizes: 100m
- Maximum run length of 121 metres @ 2.4 bar pressure.

Built in check valve  
holds back 2.5m  
elevation



XFCV 2.3l/h 33cm x 100m	RBXFCV2333100	£81.10
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### RAIN BIRD XFS DRIPLINE - 1.6 & 2.3l/h Sub-Surface

Rain Bird's XFS Series copper or purple coloured dripline is the latest innovation. Its Copper Shield technology protects the emitter from root intrusion, creating a long lasting, low maintenance drip system for use under turf grass and planted areas.

- Flexibility allows for tight curves and switchbacks
- Built-in pressure compensation emitter providing constant flow over entire lateral length, ensuring uniform water distribution
- Dual-layered construction provides unmatched resistance to chemicals, algae growth and UV damage
- Unmatched clog resistance for long term reliability
- Copper Shield technology prevents root intrusion into dripline
- Flow rate of 1.6 or 2.3l/h per emitter
- Emitter spacing: 33cm & Pipe diameter 16mm & 100m coil size
- Available in purple for use with non potable water
- Maximum run length of 121 metres @ 2.4 bar pressure

Designed for  
UNDERGROUND  
installation



XFS 1.6l/h 33cm x 100m	RBXFS1633100	£89.40
XFS 2.3l/h 33cm x 100m	RBXFS2333100	£89.40
Purple XFS 2.3l/h 33cm x 100m	RBXFS2333100NP	£101.90

## Dripline & Porous Pipe



### RAIN BIRD QF HEADER PIPE

The Rain Bird QF dripline header is an innovative product specifically developed for the landscape market and eliminates the time on site normally needed to build headers. The flexibility and durability of the QF header pipe makes it ideal for curved and non-linear landscapes, making installation quick and easy.

- Full 360° rotating barbs at 33cm or 45cm spacing to allow for rapid assembly.
- Brown colour makes in practically invisible under mulch or on the ground.
- 25mm LDPE Ø x 30m coil.
- Pressure range: 1.0 - 4.0 bar
- Supplied with assorted compression fittings

25mm 30cm x 30m  
25mm 45cm x 30m

RBXQF02530030 **£130.20**  
RBXQF02545030 **£121.50**

**NEW !**



### NETAFIM TECHNET ANTI-SIPHON

This budget inline emitter tubing is ideal for irrigating row vegetation, hedges, trees, shrubbery and ground cover. Its pressure compensation and anti siphon properties makes it suitable for smaller applications and those that do not exceed 2.5 bar.

- Clog-resistant for long term reliability
- Dark brown coloured tubing
- Patented pressure compensating dripper assures even distribution.
- Flow rate: 1.6l/h with 30cm or 50cm emitter spacing.
- Pressure range: 0.4 - 2.5 bar.
- Diameter: 16mm x 100m coil (1mm wall thickness only)

Tec-Net Anti-Siphon 30cm x 100m  
Tec-Net Anti-Siphon 50cm x 100m

TECNETAS161630 **£87.00**  
TECNETAS161650 **£84.90**



### DURAGARDEN DRIPLINE FOR GREENWALLS

Pressure compensating and self cleaning UV resistant dripline. This inline emitter tubing is ideal for irrigating any row vegetation and green walls due to its close emitter spacing of only 15cm.

- Anti-siphon feature prevents contaminants from being drawn into drippers
- Patented pressure compensating dripper assures even distribution
- Pressure compensating and self cleaning inline drippers
- Flow rate: 1.6l/h with 15cm emitter spacing.
- Pressure range: 1.0 - 4.0 bar
- Diameter: 16mm x 100m coil

Duragarden 1.6l/h 15cm x 100m

DURADP161615100 **£114.18**

**15cm Emitter Spacing !**



### RAIN BIRD MICRO DRIPLINE

Rain Bird Micro Dripline is ideal for use within small landscapes such as planter boxes and large pots. Due to the flex in the pipe it is also ideal for looping around small trees and shrubs.

- Flow rate: 3 l/h
- Emitter spacing: 15cm & 30cm
- Pressure range: 1.0 - 4.0 bar
- Diameter: 6mm x 30m coil.

XFM 3.0 /h 15cm x 30m  
XFM 3.0l/h 30cm x 30m

RBXFM3015030 **£22.50**  
RBXFM3030030 **£16.10**

**6mm Micro Dripline !**



### POROUS/LEAKY TYPE PIPE

Porous black rubber water pipe allows water to penetrate through the soil between 30mm - 450mm either side of the pipe. Can be laid on the surface or buried. Working pressure 0.5 bar.

50mtrs 5mm Microbore  
100mtrs 5mm Microbore  
15 mtrs 1/2"  
30 mtrs 1/2"  
50 mtrs 1/2"  
100 mtrs 1/2"

LEAKY005050 **£22.50**  
LEAKY005100 **£45.40**  
LEAKY015015 **£16.50**  
LEAKY015030 **£26.40**  
LEAKY015050 **£35.70**  
LEAKY015100 **£71.20**

## Drippers & Root Watering Systems



### ANTELCO DRIP STAKE

Pressure compensating drip stake, sealed to maintain pre-set discharge rates and uniformity. Colour coded for easy identification. Ideal for installation in tubs, planters and border areas where specific plants need watering.

RED Pressure: 0.5 - 3.5 bar  
BLACK Pressure: 0.5 - 3.5 bar  
GREEN Pressure: 0.5 - 3.5 bar

Flow: 2.0 - 2.3 l/hour  
Flow: 3.6 - 4.6 l/hour  
Flow: 5.8 - 8.0 l/hour

ANTDRIPSTKE02PC **£0.45**  
ANTDRIPSTKE04PC **£0.45**  
ANTDRIPSTKE08PC **£0.45**



### RAIN BIRD XERIBUG EMITTERS

Pressure compensated diaphragm delivers uniform flow at varying pressures (1 to 3.5 bar) Self piercing inlet barb provides easy installation into header pipe or end of 6mm tubing. Self flushing action minimises clogging. UV resistant

RBXB05 - single outlet emitter (blue) flow: **2 l/hr**  
RBXB10 - single outlet emitter (black) flow: **4 l/hr**  
RBXB20 - single outlet emitter (red) flow: **8 l/hr**  
RBXB106 - 6 outlets with **4 l/hr per outlet**

RBXB-05 **£0.20**  
RBXB-10 **£0.20**  
RBXB-20 **£0.20**  
RBEM6-4LHR **£5.10**



### RAIN BIRD MULTI OUTLET EMISSION DEVICE

This device has a ½" female BSP bottom inlet and a body that includes eight No. 4 litre per hour pressure compensating emitters. Each individual outlet can be blanked off if not required. Each emitter outlet has a 4mm barbed outlet that will receive 6mm transfer tubing so micro pipe can be run to required position. Ideal for servicing multiple plants or pots from a single connection point. Drippers can be mixed with 2/4/8lhr Xeribugs.

RBXBD-810 **£12.30**

**NEW !**



### RAIN BIRD ROOT WATERING SYSTEM

The Rain Bird RWS Series is an innovative underground system designed to water trees and shrubs. The Rain Bird RWS enables vital water, air and nutrients to by pass compact soil and directly reach tree and shrub roots.

#### FEATURES

- Promotes healthy trees and shrubs by allowing water, oxygen and nutrients to reach the roots
- Mesh tube is perforated with thousands of holes allowing water to permeate the ground at the root whilst providing excellent aeration
- Aesthetically pleasing because it is installed below ground, Ideal for urban settings
- Compatible with drip tubing systems
- Locking grate to protect system
- 3 year warranty

#### SPECIFICATIONS

- Constructed from high-grade polymer
- UV resistant thermoplastic inhibitors
- Pre-installed Rain Bird 1401 series bubbler
- Pressure compensating from 1.5 - 5.5 bar
- Flow rate 57l/h

#### DIMENSIONS

Model	Height	Diameter
RWS-BGX	91.4cm	10.2cm
RWS-M-BCG	45.7cm	10.2cm
RWS-S-BCG	25.4cm	5.1cm

#### MODELS

Model	Price
RBRWS-BGX	<b>£41.30</b>
RBRWS-M-BG	<b>£28.00</b>
RBRWS-S-BG	<b>£17.00</b>



### RAIN BIRD ROOT WATERING SYSTEM SOCK

The Rain Bird RWS Sock is designed to fit outside the Rain Bird RWS-BGX. It is for use in fine/ sandy soils and will deter fine soil from infiltrating the RWS basket. The RWS Sock is made from polypropylene.

RBRWS-SOCK **£37.20**

## Mini Sprays



### ANTELCO ASTA STAKE

The Asta Stake range provides a variety of solutions for installing components for a low volume irrigation system. To be used in conjunction with an Antelco Threaded Riser (sold separately). Pressure: 0 to 4 bar.

ANTASTASTKE310 **£0.41**  
ANTASTASTKE450 **£0.83**  
ANTASTASTKE530 **£0.97**



### ANTELCO THREADED RISERS

Install with either the Asta Stake or similar units as an extension riser for new and old sites where more height is required. Pressure: 0 to 4 bar.

ANTRISERTHRD200 **£0.22**  
ANTRISERTHRD300 **£0.29**  
ANTRISERTHRD450 **£0.39**



### ANTELCO ASTA STAKE ASSEMBLY

The Asta Stake Assembly consist of a ground stake and take-off tube to connect back to the supply pipe. All you need to choose is your desired spray head.

ANTASTSTKEAS30 **£1.29**

### ANTELCO VARI-JETS

Adjustable flow and radius by using integral ball valve. Uniform emission pattern provides excellent distribution. Ideal for annual flower beds and ground cover. Ideally threaded onto 12" polyflex riser. Available in quarter, half and full circle models.

Pressure: 0.75 - 2 bar

Flow: 0 - 120 l/hour

Radius: Quarter/Half circle:  
Full circle:  
Mist Spray:

0 - 3.2 metres  
0 - 4 metres  
0 - 1 metres

ANTVARJET090 **£0.44**  
ANTVARJET180 **£0.44**  
ANTVARJET360 **£0.44**  
ANTVARJET360MST **£0.44**



### ANTELCO ADJUSTABLE SPINNER

A strong 'C' frame design allows for even water distribution. Adjustment allows for the radius and flow rate to be adjusted instantly. Threads onto ultra stake or polyflex risers.

Pressure: 1 - 2 bar

Flow: 0 - 105 l/hour

Radius: 0 - 3.9 metres

ANTVARIOTSPR36 **£0.89**



### ANTELCO SHRUBBLER SPIKE

Easily adjustable flow and radius by turning outer cap. Ideal for shrub planting, trees, containers, pots and flower beds. Comes on a 5" spike with or without pressure compensation.

360 Pressure: 1 - 2.1 bar

Flow: 0 - 49 l/hour

Radius: 0 - 0.6 metres

ANTSHRBSPK360 **£0.34**

360PC Pressure: 1 - 2.1 bar

Flow: 0 - 38 l/hour

Radius: 0 - 0.4 metres

ANTSHRBSPK360PC **£0.71**



### ANTELCO SPECTRUM SPIKE

Microspray with true full circle pattern. Easily adjustable cap to control flow and radius. Ideal for shrub planting, ground cover, annual flower beds and large pots or planters. Comes on a 5" spike.

Pressure: 1 - 2.1 bar

Flow: 0 - 90 l/hour

Radius: 0 - 0.4 metres

ANTSPECRMSPK360 **£0.49**



### ANTELCO ASTA VARI-JET STAKE

Pre-assembled Antelco Asta stake with an Vari-Jet spray head. Includes ground stake, takeoff tube and Vari-Jet and is ideal for annual flower beds and ground cover. Available with 3 spray patterns.

Pressure: 0.75 - 2 bar

Flow: 0 - 120 l/hour

Radius: Quarter circle:  
Half circle:  
Full circle:

0 - 3.2 metres  
0 - 3.2 metres  
0 - 4 metres

ANTASTVARIJT090 **£1.96**  
ANTASTVARIJT180 **£1.96**  
ANTASTVARIJT360 **£1.96**



## Mini Sprays



### ANTELCO ROTOR SPRAY

A strong 'C' frame design allows for even water distribution and reliable rotation. Full flow flipper suspended between two bearings for durable performance. Threads onto ultra stake or similar poly flex risers.

BLUE Pressure: 1 - 2 bar	Flow: 38 - 46 l/hour	Radius: 5.2 - 5.4 metres	ANTROTSPRBL360	£0.54
GREEN Pressure: 1 - 2 bar	Flow: 61 - 88 l/hour	Radius: 6.0 - 7.2 metres	ANTROTSPRGR360	£0.54
ORANGE Pressure: 1 - 2 bar	Flow: 95 - 135 l/hour	Radius: 6.7 - 8.4 metres	ANTROTSPROR360	£0.54



### ANTELCO SHRUBBLER

Easily adjustable flow and radius by turning outer cap. Ideal for shrub planting, trees, containers and flower beds. Comes with thread or barbed connection and with or without pressure compensation. Fits onto 6mm stakes, risers and pipe.

180T Pressure: 1 - 2.1 bar	Flow: 0 - 49 l/hour	Radius: 0 - 0.6 metres	ANTSHRBTHD180	£0.20
360T Pressure: 1 - 2.1 bar	Flow: 0 - 49 l/hour	Radius: 0 - 0.6 metres	ANTSHRBTHD360	£0.20
360B Pressure: 1 - 2.1 bar	Flow: 0 - 49 l/hour	Radius: 0 - 0.6 metres	ANTSHRBARB360	£0.16
360BPC Pressure: 1 - 2.1 bar	Flow: 0 - 38 l/hour	Radius: 0 - 0.4 metres	ANTSHRBARB360PC	£0.35



### ANTELCO SPECTRUM

Micro-spray with true full circle pattern. Easily adjustable cap to control flow and radius. Ideal for shrub planting, ground cover and annual flower beds. Fits onto 6mm stakes, risers and pipe.

360T Pressure: 1 - 2.1 bar	Flow: 0 - 90 l/hour	Radius: 0 - 0.4 metres	ANTSPECTRUM-THRD360	£0.37
360B Pressure: 1 - 2.1 bar	Flow: 0 - 90 l/hour	Radius: 0 - 0.4 metres	ANTSPECTRUM-BARB360	£0.32



### RAIN BIRD 12" POLYFLEX RISER STAKE

Constructed of strong PP plastic, barbed side inlet accepts 6mm transfer tubing, barbed top outlet accepts 12" poly flex riser although riser & riser stake supplied as one assembled unit. Extensions also available. Accepts all Xeri bubbler and Xeri spray emission devices with micro thread. Thick walled high density PE.

Pressure: 0 to 4 bar	RBPFR-RS	£1.00
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### RAIN BIRD JET SPIKE

Adjustable flow, choice of three spray patterns, solid stake with built-in hole punch, supplied with 500 mm of off-take and 150 mm rigid user.

Pressure: 0.5 to 2.5 bar	Flow: 0 to 130 l/hour	Radius: 0 to 4.2 metres		
	Jet Spike 90°		RBJETSPIKE090	£2.90
	Jet Spike 180°		RBJETSPIKE180	£2.90
	Jet Spike 360°		RBJETSPIKE360	£2.90



### RAIN BIRD LDPE BLACK IRRIGATION TRANSFER TUBING

6mm OD (4mm ID) black LDPE transfer tube for feeding between low volume sprays, drippers and bubblers to your header pipe.

6mm (1/4") 30m	RBDT025030	£8.50
6mm (1/4") 300m c/w bucket	RBDT025300B	£71.90
6mm (1/4") 300m bucket refill only	RBDT025300R	£65.10



### RAIN BIRD SELF PIERCING BARB CONNECTOR

Can be inserted into header pipe to provide 6mm barb for transfer tubing. Grey body of unit indicates it has unrestricted flow.

RBSPB-025	£0.40
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## Naan Dan Mini Sprays



### NAANDAN HADAR SPRINKLERS

The Naandan **Hadar** 3 piece (spike, lead & rotor) low volume sprays are assembled by twisting components together with a course thread (see modular type below if you require push together type with no thread)

### NAANDAN HADAR SPIKE

A strong but flexible spike for use with Naandan Hadar sprinklers.

*Hadar are the twist together type*

NAANSPIKE £0.37

### NAANDAN HADAR LEADS

50cm and 100cm lead with bayonet connectors for use with the Naandan Hadar Spike.

NAANLEAD050 £0.76

NAANLEAD100 £1.33

### NAANDAN HADAR FULL CIRCLE ROTOR

Ideal for large border areas with medium range of circa 3.5m radius. Depending on density of planting sprinklers should be positioned with generous overlap.

Nozzle Colour	l/hr	m <sup>3</sup> /hr	Radius (m)
Red	61	0.061	3.5
Green	87	0.087	4.25

NAANMEDROTRED £0.74

NAANMEDROTGRN £0.74

### NAANDAN HADAR HALF CIRCLE ROTOR

Ideal for large border areas by placing half circle rotors along walls and the back of border areas covering 180 degree arc.

Nozzle Colour	l/hr	m <sup>3</sup> /hr	Radius (m)
Red	61	0.061	2.9
Blue	103	0.103	3.1
Yellow	128	0.128	3.3
Green	166	0.166	3.4
Brown	265	0.265	3.7

NAANHLCIRCRED £0.74

NAANHLCIRCBLU £0.74

NAANHLCIRCYEL £0.74

NAANHLCIRCGRN £0.74

NAANHLCIRCBRN £0.74



### NAANDAN MODULAR SPRINKLERS

The Naandan Modular 3 piece sprinkler is ideal for large borders and greenhouses with a broad range of wetted diameters and flow rates. You can choose between small, medium or large droplets produced by different sprayers, swivels or anti-mist devices.

*Modular are the push together type*

### NAANDAN MODULAR SPIKE

A strong but flexible spike for use with Naandan Modular sprinklers.

NAANSPIKE-MOD £0.44

### NAANDAN MODULAR LEADS

60cm and 100cm butterfly lead with barbed connector for use with the Naandan Modular Spike.

NAANLED60BFMD £0.82

NAANLED100BFM £1.06

### NAANDAN MODULAR HALF CIRCLE ROTOR

Ideal for border areas by placing half circle rotors along the rear so that they throw water forwards.

NAANMODHCGRY £0.88

### NAANDAN MODULAR FULL CIRCLE ROTOR

Ideal for large border areas with micro sprinklers positioned throughout planted border area in central areas.

NAANMODFCGRY £0.88

### NAANDAN MODULAR ACCESSORIES AND SPARES

The modular design offers a wide range of patterns and nozzles.

Close spreader (Orange)  
Strip spreader (Blue)  
Swivel spreader (Black)

NAANMODSPRCLS £0.23

NAANMODSPRSTP £0.23

NAANMODSPRSWV £0.22

## Low Volume Accessories



### ANTELCO BARBED FITTINGS

6mm barb fittings used for connecting 6mm transfer tubing in different configurations.



6mm Barb connector	ANTBARBCOUP006	£0.06
6mm Barb x Barb elbow	ANTBARBELB006	£0.13
6mm Barb x Barb x Barb Tee	ANTBARBTEE006	£0.13
6mm Barb x Barb x Barb x Barb Cross	ANTBARBCROS006	£0.23



### RAIN BIRD LDPE BLACK IRRIGATION TRANSFER TUBING

6mm OD (4mm ID) black LDPE transfer tube for feeding between low volume sprays, drippers and bubblers to your header pipe.

6mm (1/4") 30 metres	RBDT025030	£8.50
6mm (1/4") 300 metre c/w bucket dispenser	RBDT025300B	£71.90
6mm (1/4") 300 metre bucket refill	RBDT025300R	£65.10



### RAIN BIRD 6 OUTLET MANIFOLD

1/2" BSP inlet threads onto 1/2" riser and provides manifold with six free flowing 6mm barb outlets. Each outlet has a plastic cap & unit can be used with emitters, sprays and bubblers.

RBEM6-6XFF £5.10



### RAIN BIRD DIFFUSER BUG CAP

Diffuses water to minimize soil erosion at emission point. Flanged shield directs water to the desired location. Also prevents bugs and other debris from clogging tubing.

RBDDB-025-50 £0.50



### RAIN BIRD SELF PIERCING BARB CONNECTOR

Can be inserted into header pipe to provide 6mm barb for transfer tubing. Grey body of unit indicates it has unrestricted flow.

RBSPB-025 £0.40



### ANTELCO TUBING GOOF PLUG

Used to plug any unwanted holes made while inserting self piercing emitters.

10 per rack

ANTGOOFPLUG10 £0.33



### RAIN BIRD TUBING STAKES

Constructed of UV resistant plastic. Used for holding 5mm or 6mm transfer tubing/ dripper in position at the plant root zone. Black in colour

RBTS-025 £0.50



### ANTELCO ASTA CLIP STAKE

Constructed of UV resistant plastic. Used for holding 5mm or 6mm transfer tubing/ dripper in position at the plant root zone. Black in colour

ANTASTACLIPSTK £0.14



### PIPE CLIPS

For securing low volume pipework to walls. Plastic clip with steel nail (See page 22 for larger sizes).

For 5/6mm Pipe (box of 100)

PCLIP005 £4.90

## LDPE Pipe & Lock Type Fittings

### LDPE IRRIGATION PIPE 4 Bar (for drip and low volume systems)

Low density black polyethylene pipe. High technology, anti stress cracking pipe 4 bar pressure rated only. If running underground should be protected by ducting.



Outside Diameter	Inside Diameter	Coil Length		
5mm	3mm	200m	LDP005200	£18.40
6mm	4mm	100m	LDP006100	£22.21
12mm	10mm	100m	LDP012100	£20.28
16mm	13,6mm	25m	LDP016025	£7.50
16mm	13,6mm	50m	LDP016050	£15.00
20mm	17mm	50m	LDP020050	£25.58
20mm	17mm	100m	LDP020100	£49.71
25mm	21mm	100m	LDP025100	£69.55

### RAIN BIRD LDPE IRRIGATION PIPE 4 Bar

High quality 4 bar LDPE 16mm pipe suitable for all systems and available in brown.



Outside Diameter	Inside Diameter	Colour &		
Length				
16mm	13.6mm	Black 100m	RBLDPBK016100	£31.30
16mm	13.6mm	Brown 100m	RBLDPBR016100	£44.70

### RAIN BIRD & PALAPLAST LOCK TYPE FITTINGS

The Rain Bird and Palaplast Lock Type polyethylene compression fittings are designed to be used with 16mm & 20mm LDPE pipe and dripline, reducing effort required to insert the tubing into the fitting by almost 50% and providing a secure and strong connection.



<b>LOCK COUPLERS</b>	16mm x 16mm	LOCKCOUP1616	£0.70
	20mm x 16mm	LOCKCOUP2016	£0.94
	20mm x 20mm	LOCKCOUP2020	£0.94



<b>LOCK MALE ADAPTORS</b>	16mm x 1/2"	LOCKMA16015	£0.50
	16mm x 3/4"	LOCKMA16020	£0.40
	20mm x 1/2"	LOCKMA20015	£0.60
	20mm x 3/4"	LOCKMA20020	£0.57



<b>LOCK FEMALE ADAPTORS</b>	16mm x 1/2"	LOCKFA16015	£1.10
	16mm x 3/4"	LOCKFA16020	£1.10
	20mm x 1/2"	LOCKFA20015	£1.05
	20mm x 3/4"	LOCKFA20020	£1.11



<b>LOCK ELBOWS</b>	16mm x 16mm	LOCKELB1616	£1.10
	20mm x 16mm	LOCKELB2016	£1.30
	20mm x 20mm	LOCKELB2020	£1.30



<b>LOCK TEES</b>	16mm x 16mm x 16mm	LOCKTEE161616	£1.40
	16mm x 20mm x 16mm	LOCKTEE162016	£1.67
	20mm x 16mm x 20mm	LOCKTEE201620	£1.67
	20mm x 20mm x 20mm	LOCKTEE202020	£1.67

<b>LOCK TEES WITH MALE BSP OFFTAKE</b>	16mm x 3/4" x 16mm	LOCKTEEM16020	£1.30
	20mm x 3/4" x 20mm	LOCKTEEM20020	£1.30

<b>LOCK TEES WITH FEMALE BSP OFFTAKE</b>	16mm x 3/4" x 16mm	LOCKTEEF16020	£2.49
	20mm x 3/4" x 20mm	LOCKTEEF20020	£1.97



<b>LOCK PLUGS</b>	16mm	LOCKPL16	£0.50
	20mm	LOCKPL20	£0.57

## Barbed Fittings

### BARBED HOSE CONNECTORS FOR THIN WALLED 4 BAR POLYETHYLENE PIPE.

Sizes correspond to the outside diameter of the pipe.



#### BARBED COUPLERS

12mm x 12mm	BARBCOUP1212	£0.15
16mm x 16mm	BARBCOUP1616	£0.17
17mm x 17mm	BARBCOUP1717	£0.20
20mm x 20mm	BARBCOUP2020	£0.17
20mm x 16mm	BARBCOUP2016	£0.19



#### BARBED MALE ADAPTORS

12mm x 1/2"	BARBMA12015	£0.31
12mm x 3/4"	BARBMA12020	£0.31
16mm x 1/2"	BARBMA16015	£0.19
16mm x 3/4"	BARBMA16020	£0.19
17mm x 1/2"	BARBMA17015	£0.40
17mm x 3/4"	BARBMA17020	£0.40
20mm x 1/2"	BARBMA20015	£0.23
20mm x 3/4"	BARBMA20020	£0.23



#### BARBED FEMALE ADAPTORS

6mm x 3/4"	BARBFA06020	£0.60
12mm x 3/4"	BARBFA12020	£0.64
16mm x 3/4"	BARBFA16020	£0.42
20mm x 3/4"	BARBFA20020	£0.48



#### BARBED 90° MALE BSP ELBOWS

16mm x 1/2"	BARBME16015	£0.30
16mm x 3/4"	BARBME16020	£0.33
17mm x 3/4"	BARBME17020	£0.52
20mm x 3/4"	BARBME20020	£0.32



#### BARBED ELBOW

12mm x 12mm	BARBEL1212	£0.22
16mm x 16mm	BARBEL1616	£0.21
17mm x 17mm	BARBEL1717	£0.30
20mm x 20mm	BARBEL2020	£0.24



#### BARBED TEE

12mm x 12mm x 12mm	BARBT121212	£0.25
16mm x 16mm x 16mm	BARBT161616	£0.21
16mm x 12mm x 16mm	BARBT161216	£0.30
16mm x 20mm x 16mm	BARBT162016	£0.28
17mm x 17mm x 17mm	BARBT171717	£0.30
20mm x 20mm x 20mm	BARBT202020	£0.24
20mm x 16mm x 20mm	BARBT201620	£0.31
20mm x 12mm x 20mm	BARBT201220	£0.30



#### BARBED TEE WITH MALE BSP OFFTAKE

12mm x 1/2" x 12mm	BARBTM12015	£0.31
12mm x 3/4" x 12mm	BARBTM12020	£0.31
16mm x 1/2" x 16mm	BARBTM16015	£0.25
16mm x 3/4" x 16mm	BARBTM16020	£0.34
20mm x 1/2" x 20mm	BARBTM20015	£0.37
20mm x 3/4" x 20mm	BARBTM20020	£0.37



#### BARBED PLUG

12mm	BARBPL12	£0.15
16mm	BARBPL16	£0.16
20mm	BARBPL20	£0.17



#### BARBED x FEMALE BSP VALVE

16mm x 3/4"	BARBVB016020	£1.26
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#### BARBED x BARBED VALVE

6mm x 6mm (Threaded)	ANTVALVTHRD006	£0.43
6mm x 6mm (Barbed)	ANTVALVBARB006	£0.43
12mm x 12mm	BARVB012	£0.99
16mm x 16mm	BARVB016	£0.88
20mm x 20mm	BARVB020	£0.88



#### BARBED x MALE BSP VALVE

12mm x 1/2"	BARVB012015	£0.99
16mm x 1/2"	BARVB016015	£0.99
16mm x 3/4"	BARVB016020	£0.99
20mm x 1/2"	BARVB020015	£0.99
20mm x 3/4"	BARVB020020	£0.99

**Please Note:**

*A wider range of barbed fitting are kept in stock and in bag quantities*

## Pressure Regulators & Low Volume Fixings



### RAIN BIRD PRESSURE-REGULATING FILTER

The Rain Bird Pressure-Regulating Filter reduces the number of components in a control zone by combining a pressure regulator and an in-line filter into one unit, reducing the number of connections, making installations smaller and easier. Available in 3/4" or 1".

3/4" Pressure regulating filter, outlet pressure 2 bar 75 micron screen  
1" Pressure regulating filter, outlet pressure 2.8 bar 75 micron screen  
75 micron replacement screen

RBPRF075RBY	£16.40
RBPRF100RBY	£18.80
RBRBY-200MX	£7.70



### RAIN BIRD PSI - M SERIES PRESSURE REGULATORS

These preset pressure regulators are designed to provide a constant outlet pressure in micro irrigation installations, designed for above and below grade use. Specification: PSI-M (3/4" female threaded inlet & outlet)  
Flow range: 0.45 to 5 m³/hr

PSI-M20: Outlet pressure 1.4 bar	RBPSI-M20	£11.30
PSI-M25: Outlet pressure 1.8 bar	RBPSI-M25	£11.30
PSI-M30: Outlet pressure 2.1 bar	RBPSI-M30	£11.30
PSI-M40: Outlet pressure 2.8 bar	RBPSI-M40	£11.30
PSI-M50: Outlet pressure 3.5 bar	RBPSI-M50	£11.30



### TUBING END CLOSURE

Figure 8 end closures are used at the end of 16mm and 20mm LDPE tubing and easily removed for line flushing  
Pressure: 0 – 3.5 bar

BARBEC16	£0.11
BARBEC20	£0.15



### RATCHET CLAMP

For use on LDPE 4 bar irrigation tubing with barbed fittings.

12mm	ANTCLAMP12	£0.32
16mm	ANTCLAMP16	£0.11
20mm	ANTCLAMP20	£0.11



### GROUND PIPE STAKE

For holding Dripline and LDP pipe in position. Suitable for 16 & 20mm LDPE pipe.

BARBSTAKE	£0.23
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### RAIN BIRD C12 BROWN BARBSTAKE (To match Rain Bird XF Dripline)

For holding Dripline and LDP pipe in position. Locks around pipe to stop losing stake, its longer length means it is more suitable for looser soils. Suitable for 16mm and 20mm LDPE pipe only.

RBC12BS	£0.30
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### ANTELCO BLACK ASTA STAKE

For holding Dripline and LDP pipe in position. Locks around pipe to stop losing stake, its longer length means it is more suitable for looser soils. Suitable for 16mm and 20mm LDPE pipe only.

ANTASTAHOLDSTK	£0.27
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### PIPE CLIPS

For securing low volume pipework to walls. Plastic clip with steel nail.

For 5/6mm Pipe (box of 100)	PCLIP005	£4.90
For 12mm Pipe (box of 100)	PCLIP012	£6.13
For 16mm Pipe (box of 100)	PCLIP016	£9.99
For 20mm Pipe (box of 50)	PCLIP020	£20.14



## Xeri-Pop & XPCN Series Nozzles



### RAIN BIRD XERI-POP MICRO SPRAY

The Xeri-Pop micro-spray makes it easy to integrate a durable micro spray into a low volume irrigation system. Ideal for applications that require flexibility and ease of installation. The only pop-up designed for low pressure applications. It is also perfect for small odd-shaped planting areas.

#### FEATURES

- Supplied via ¼" Distribution Tubing (see page 17)
- Easily located and relocated as planting dictates
- Durable plastic snap-collar to hold distribution tubing against Xeri-Pop case
- Easily connected to main line with a Self-Piercing Barb connector
- UV resistant

#### SPECIFICATIONS

Operating Pressure: 1.4 to 3.4 bar RBXP-400X 4" Xeri-Pop RBXP-400X **£3.40**



### RAIN BIRD XPCN SERIES

Xeri-Pressure Compensating Nozzles are the most precise and efficient low-volume spray solution for irrigation in small areas with dense planting at very low flows. With built in pressure compensation and square spray pattern offer increased efficiency and control. Available in Full, Half or Quarter Circle spray pattern.

#### FEATURES:

- Pressure compensation design delivers uniform flow over pressure range
- Square spray pattern with edge-to-edge coverage
- Ideal for small areas
- Compatible with all 1800 Sprays, Xeri-Pops
- 2 choices of distance 0.8m or 1.2m (within single nozzle)
- Optional poly-flex riser for additional height
- Includes filter screen

#### SPECIFICATION

Operating Pressure:	1.4 - 3.5 bar	RBXPCN-Q Quarter Pattern	RBXPCNQTR	<b>£1.60</b>
Flow Rate:	24 - 103 LPH	RBXPCN-H Half Pattern	RBXPCNHLF	<b>£1.60</b>
Minimum Filtration:	375 micron	RBXPCN-F Full Pattern	RBXPCNFUL	<b>£1.60</b>
		RBXPCN-A Adaptor c/w 24" Riser	RBXPCNADP24	<b>£1.12</b>

### XPCN Nozzle Performance

0.8m throw @ 0.15m height above grade

1.2m throw @ 0.15m height above grade

Noz- zle	Pres- sure (bar)	Throw Radius (m)	Flow LPH	Pre- cip. Rate	Nozzle	Pres- sure (bar)	Throw Radius (m)	Flow LPH	Pre- cip. Rate
<b>Q</b>	1.4	0.8	24	42	<b>Q</b>	1.4	1.2	24	16
	2.1	0.8	28	48		2.1	1.2	28	19
	2.8	0.8	28	34		2.8	1.2	28	15
	3.4	0.8	28	34		3.4	1.2	28	15
<b>H</b>	1.4	0.8	39	33	<b>H</b>	1.4	1.2	39	13
	2.1	0.8	46	40		2.1	1.2	46	16
	2.8	0.8	52	31		2.8	1.2	52	14
	3.4	0.8	52	31		3.4	1.2	52	14
<b>F</b>	1.4	0.8	76	33	<b>F</b>	1.4	1.2	76	13
	2.1	0.8	92	39		2.1	1.2	92	15
	2.8	0.8	103	31		2.8	1.2	103	14
	3.4	0.8	103	31		3.4	1.2	103	14

*Performance data taken in zero wind conditions*

## MDPE Pipe & Fixings

### BLACK MAINS WATER PIPE 16 Bar

Black polyethylene pipe for below ground use on mains water and irrigation main lines and laterals. BS EN12201. Larger sizes also in stock.



Outside Diameter	Coil length		
20mm	25m	HPPEBK020025	£12.90
20mm	50m	HPPEBK020050	£25.80
20mm	100m	HPPEBK020100	£51.60
25mm	25m	HPPEBK025025	£16.12
25mm	50m	HPPEBK025050	£32.25
25mm	100m	HPPEBK025100	£64.50
32mm	25m	HPPEBK032025	£27.95
32mm	50m	HPPEBK032050	£55.90
32mm	100m	HPPEBK032100	£111.80
50mm	25m	HPPEBK050025	£66.65
50mm	50m	HPPEBK050050	£133.30
50mm	100m	HPPEBK050100	£266.60

### BLACK IRRIGATION PIPE 12 & 16 Bar - Straight Lengths

Black polyethylene pipe in 6m straight lengths. Larger sizes also in stock.



Outside Diameter	Length		
25mm	6m	HPPEBK02500616B	£8.10
32mm	6m	HPPEBK03200616B	£12.77
40mm	6m	HPPEBK04000616B	£20.85
50mm	6m	MDPEBK050006	£26.26

### BLUE MAINS WATER PIPE 12 Bar

Blue medium density polyethylene pipe. 12 bar pressure rated. For below ground use on mains water. BS EN12201



Outside Diameter	Coil length		
20mm	25m	MDPEBL020025	£12.90
20mm	50m	MDPEBL020050	£25.80
20mm	100m	MDPEBL020100	£51.60
25mm	25m	MDPEBL025025	£15.12
25mm	50m	MDPEBL025050	£32.25
25mm	100m	MDPEBL025100	£64.50
32mm	25m	MDPEBL032025	£27.95
32mm	50m	MDPEBL032050	£55.90
32mm	100m	MDPEBL032100	£111.80
50mm	25m	MDPEBL050025	£66.65
50mm	50m	MDPEBL050050	£133.30
50mm	100m	MDPEBL050100	£266.60

### HDPE BLACK WITH GREEN STRIPE PIPE

Black with a green stripe high density polyethylene pipe. For below ground use on irrigation & recycled water systems. Labelled with 'Non Potable Water'



Outside Diameter	Coil length		
25mm	50m	HDPEGS025050	£40.60
25mm	100m	HDPEGS025100	£81.20
32mm	50m	HDPEGS032050	£65.43
32mm	100m	HDPEGS032100	£130.87
40mm	50m	HDPEGS040050	£102.43
40mm	100m	HDPEGS040100	£204.87
50mm	50m	HDPEGS050050	£152.35

**FOR IRRIGATION USE**

### PIPE CLAMPS

Pipe clamps without clips

PIPE OUTER DIAMETER



12mm	CLAMP012	£0.46
16mm	CLAMP016	£0.46
20mm	CLAMP020	£0.54
25mm	CLAMP025	£0.64
32mm	CLAMP032	£0.76

Pipe clamping spacing block



16mm	SPACE016	£0.29
20mm	SPACE020	£0.29
25mm	SPACE025	£0.32
32mm	SPACE032	£0.39

Larger sizes of pipe and fittings are also kept in stock.

## Plasson Agrifit (Silverline) Compression Fittings

The Plasson Agrifit range of compression fittings is the perfect solution for the connection of polyethylene pipes for irrigation applications. Perfectly watertight, simple to use with hand tightening only, re-useable, frost and impact resistant. Please note that Agrifit is only available up to 63mm, for larger sizes please use Plasson WRAS approved fittings on pages 27 & 28.



### STRAIGHT COUPLER

20mm	AG14010020	£1.76
25mm	AG14010025	£1.91
32mm	AG14010032	£3.43
40mm	AG14010040	£4.89
50mm	AG14010050	£7.69
63mm	AG14010063	£11.18



### REDUCING SET

25-20mm	AG14930025020	£1.81
32-20mm	AG14930032020	£2.97
32-25mm	AG14930032025	£2.27
40-32mm	AG14930040032	£3.42
50-25mm	AG14930050025	£4.94
50-32mm	AG14930050032	£4.94
63-25mm	AG14930063025	£7.40
63-40mm	AG14930063040	£7.40
63-50mm	AG14930063050	£7.40



### 90° ELBOW

20mm	AG14050020	£1.98
25mm	AG14050025	£2.46
32mm	AG14050032	£4.22
40mm	AG14050040	£6.50
50mm	AG14050050	£8.70
63mm	AG14050063	£11.58



### 90° ELBOW WITH THREADED FEMALE OFFTAKE

20mm-½"	AG14150020015	£1.57
20mm-¾"	AG14150020020	£1.57
25mm-½"	AG14150025015	£2.14
25mm-¾"	AG14150025020	£2.14
25mm-1"	AG14150025025	£2.14
32mm-¾"	AG14150032020	£3.59
32mm-1"	AG14150032025	£3.59
32mm-1¼"	AG14150032032	£3.59
40mm-1¼"	AG14150040032	£6.24
40mm-1½"	AG14150040040	£6.24
50mm-1½"	AG14150050040	£7.84
50mm-2"	AG14150050050	£7.84
63mm-2"	AG14150063050	£10.15



### 90° ELBOW WITH THREADED MALE OFFTAKE

20mm-½"	AG14850020015	£1.24
20mm-¾"	AG14850020020	£1.24
25mm-½"	AG14850025015	£1.64
25mm-¾"	AG14850025020	£1.64
25mm-1"	AG14850025025	£1.64
32mm-1"	AG14850032025	£2.42
40mm-1"	AG14850040025	£4.16
40mm-1¼"	AG14850040032	£4.16
40mm-1½"	AG14850040040	£4.16
50mm-1½"	AG14850050040	£5.73
63mm-2"	AG14850063050	£7.02



### 90° TEE

20mm	AG14040020	£2.98
25mm	AG14040025	£3.66
32mm	AG14040032	£5.23
40mm	AG14040040	£8.97
50mm	AG14040050	£10.95
63mm	AG14040063	£15.44

## Plasson Agrifit (Silverline) Compression Fittings

The Plasson Agrifit range of compression fittings is the perfect solution for the connection of polyethylene pipes for irrigation applications. Perfectly watertight, simple to use with hand tightening only, re-useable, frost and impact resistant. Please note that Agrifit is only available up to 63mm, for larger sizes please use Plasson WRAS approved fittings on pages 27 & 28.



### 90° TEE WITH THREADED MALE OFFTAKE

20mm-1/2"	AG14840020015	£2.08
20mm-3/4"	AG14840020020	£2.08
25mm-1/2"	AG14840025015	£3.37
25mm-3/4"	AG14840025020	£3.37
32mm-1"	AG14840032025	£4.81
40mm-1 1/4"	AG14840040032	£7.06
40mm-1 1/2"	AG14840040040	£7.06
50mm-1 1/2"	AG14840050040	£10.04
63mm-2"	AG14840063050	£13.57



### 90° TEE WITH THREADED FEMALE OFFTAKE

20mm-1/2"	AG14140020015	£2.14
20mm-3/4"	AG14140020020	£2.14
25mm-1/2"	AG14140025015	£3.64
25mm-3/4"	AG14140025020	£3.64
25mm-1"	AG14140025025	£3.64
32mm-1/2"	AG14140032015	£5.33
32mm-3/4"	AG14140032020	£4.81
32mm-1"	AG14140032025	£4.81
40mm-1"	AG14140040025	£7.06
40mm-1 1/2"	AG14140040040	£7.06
50mm-1 1/2"	AG14140050040	£10.17
50mm-2"	AG14140050050	£10.17
63mm-2"	AG14140063050	£14.30



### MALE ADAPTOR WITH BSP THREAD

20mm-1/2"	AG14020020015	£1.12
20mm-3/4"	AG14020020020	£1.12
25mm-1/2"	AG14020025015	£1.57
25mm-3/4"	AG14020025020	£1.57
25mm-1"	AG14020025025	£1.57
32mm-3/4"	AG14020032020	£2.40
32mm-1"	AG14020032025	£2.40
32mm-1 1/4"	AG14020032032	£2.40
40mm-1"	AG14020040025	£4.25
40mm-1 1/4"	AG14020040032	£4.25
40mm-1 1/2"	AG14020040040	£4.25
50mm-1 1/2"	AG14020050040	£5.73
50mm-2"	AG14020050050	£5.73
63mm-2"	AG14020063050	£7.69



### FEMALE ADAPTOR WITH BSP THREAD

20mm-1/2"	AG14030020015	£1.57
20mm-3/4"	AG14030020020	£1.57
25mm-3/4"	AG14030025020	£1.64
25mm-1"	AG14030025025	£1.64
32mm-3/4"	AG14030032020	£1.83
32mm-1"	AG14030032025	£1.83
40mm-1"	AG14030040025	£4.48
40mm-1 1/4"	AG14030040032	£4.48
40mm-1 1/2"	AG14030040040	£4.48
50mm-1 1/2"	AG14030050040	£6.13
50mm-2"	AG14030050050	£6.13
63mm-2"	AG14030063050	£8.81



### END PLUG

25mm	AG14120025	£2.32
32mm	AG14120032	£3.33
40mm	AG14120040	£4.94
50mm	AG14120050	£6.57
63mm	AG14120063	£11.05

## Plasson WRAS Approved Compression Fittings



**STRAIGHT COUPLER**

16mm	PLAS7010016	<b>£3.42</b>
20mm	PLAS7010020	<b>£4.25</b>
25mm	PLAS7010025	<b>£4.58</b>
32mm	PLAS7010032	<b>£10.76</b>
50mm	PLAS7010050	<b>£23.77</b>
63mm	PLAS7010063	<b>£34.73</b>



**REDUCING SET**

25-20mm	PLAS7930025020	<b>£3.09</b>
32-20mm	PLAS7930032020	<b>£4.50</b>
32-25mm	PLAS7930032025	<b>£4.50</b>
50-25mm	PLAS7930050025	<b>£9.17</b>
50-32mm	PLAS7930050032	<b>£8.91</b>
63-25mm	PLAS7930063025	<b>£13.34</b>
63-32mm	PLAS7930063032	<b>£13.34</b>
63-50mm	PLAS7930063050	<b>£13.34</b>



**90° ELBOW**

16mm	PLAS7050016	<b>£3.85</b>
20mm	PLAS7050020	<b>£5.30</b>
25mm	PLAS7050025	<b>£7.81</b>
32mm	PLAS7050032	<b>£12.82</b>
50mm	PLAS7050050	<b>£27.18</b>
63mm	PLAS7050063	<b>£36.06</b>



**90° ELBOW WITH THREADED FEMALE OFFTAKE**

16mm-1/2"	PLAS7150016015	<b>£3.98</b>
20mm-1/2"	PLAS7150020015	<b>£5.26</b>
20mm-3/4"	PLAS7150020020	<b>£5.26</b>
25mm-1/2"	PLAS7150025015	<b>£6.90</b>
25mm-3/4"	PLAS7150025020	<b>£6.90</b>
25mm-1"	PLAS7150025025	<b>£6.90</b>
32mm-3/4"	PLAS7150032020	<b>£11.12</b>
32mm-1"	PLAS7150032025	<b>£11.12</b>
32mm-1 1/4"	PLAS7150032032	<b>£11.12</b>
50mm-1"	PLAS7150050025	<b>£25.08</b>
50mm-1 1/4"	PLAS7150050032	<b>£25.08</b>
50mm-1 1/2"	PLAS7150050040	<b>£25.08</b>
50mm-2"	PLAS7150050050	<b>£25.08</b>
63mm-1 1/4"	PLAS7150063032	<b>£31.48</b>
63mm-1 1/2"	PLAS7150063040	<b>£31.48</b>
63mm-2"	PLAS7150063050	<b>£31.48</b>



**90° ELBOW WITH THREADED MALE OFFTAKE**

20mm-1/2"	PLAS7850020015	<b>£3.86</b>
20mm-3/4"	PLAS7850020020	<b>£3.86</b>
25mm-1/2"	PLAS7850025015	<b>£4.50</b>
25mm-3/4"	PLAS7850025020	<b>£4.50</b>
25mm-1"	PLAS7850025025	<b>£4.50</b>
32mm-1"	PLAS7850032025	<b>£7.59</b>
50mm-1"	PLAS7850050025	<b>£17.73</b>
50mm-1 1/4"	PLAS7850050032	<b>£17.73</b>
50mm-1 1/2"	PLAS7850050040	<b>£17.73</b>
63mm-1 1/4"	PLAS7850063032	<b>£21.79</b>
63mm-1 1/2"	PLAS7850063040	<b>£21.79</b>
63mm-2"	PLAS7850063050	<b>£21.79</b>



**90° TEE**

16mm	PLAS7040016	<b>£5.99</b>
20mm	PLAS7040020	<b>£7.51</b>
25mm	PLAS7040025	<b>£11.73</b>
32mm	PLAS7040032	<b>£15.79</b>
50mm	PLAS7040050	<b>£34.02</b>
63mm	PLAS7040063	<b>£50.91</b>

*A wider selection of WRAS approved fittings are available from stock*



## Plasson WRAS Approved Compression Fittings



### MALE ADAPTOR WITH BSP THREAD

16mm-½"	PLAS7020016015	£2.84
16mm-¾"	PLAS7020016020	£2.84
20mm-½"	PLAS7020020015	£4.00
20mm-¾"	PLAS7020020020	£4.28
20mm-1"	PLAS7020020025	£5.96
25mm-½"	PLAS7020025015	£4.80
25mm-¾"	PLAS7020025020	£4.80
25mm-1"	PLAS7020025025	£7.42
32mm-¾"	PLAS7020032020	£7.42
32mm-1"	PLAS7020032025	£7.42
32mm-1¼"	PLAS7020032032	£7.42
32mm-1½"	PLAS7020032040	£7.42
50mm-1"	PLAS7020050025	£18.17
50mm-1¼"	PLAS7020050032	£18.17
50mm-1½"	PLAS7020050040	£18.17
50mm-2"	PLAS7020050050	£18.17
63mm-1¼"	PLAS7020063032	£24.34
63mm-1½"	PLAS7020063040	£24.34
63mm-2"	PLAS7020063050	£24.34
63mm-2½"	PLAS7020063065	£24.34



### FEMALE ADAPTOR WITH BSP THREAD

16mm-½"	PLAS7030016015	£3.42
16mm-¾"	PLAS7030016020	£3.42
20mm-½"	PLAS7030020015	£4.80
20mm-¾"	PLAS7030020020	£4.80
20mm-1"	PLAS7030020025	£4.80
25mm-¾"	PLAS7030025020	£5.25
25mm-1"	PLAS7030025025	£5.25
32mm-¾"	PLAS7030032020	£7.07
32mm-1"	PLAS7030032025	£7.07
32mm-1¼"	PLAS7030032032	£7.07
50mm-1¼"	PLAS7030050032	£22.34
50mm-1½"	PLAS7030050040	£22.34
50mm-2"	PLAS7030050050	£22.34
63mm-2"	PLAS7030063050	£28.09



### END PLUG

20mm	PLAS7120020	£5.27
25mm	PLAS7120025	£6.77
32mm	PLAS7120032	£9.84
50mm	PLAS7120050	£20.45
63mm	PLAS7120063	£34.27



### REPAIR SLIP COUPLER

20mm	PLAS7610020	£5.16
25mm	PLAS7610025	£6.20
32mm	PLAS7610032	£13.98
50mm	PLAS7610050	£28.53
63mm	PLAS7610063	£39.82



### REPAIR SLIP TEE

20mm	PLAS7045020	£9.51
25mm	PLAS7045025	£13.39
32mm	PLAS7045032	£18.25
50mm	PLAS7045050	£41.93
63mm	PLAS7045063	£59.31



### PIPE LINER

20mm	PLAS7950020	£0.36
25mm	PLAS7950025	£0.37
32mm	PLAS7950032	£0.61
50mm	PLAS7950050	£1.18
63mm	PLAS7950063	£1.40

A wider selection of WRAS approved fittings are available from stock

# Plasson Threaded Fittings

0 - 16 bar WRAS approved



**THREADED SOCKET**  
Plasson 5017

1/2"	PLAS5017015	£2.11
3/4"	PLAS5017020	£3.09
1"	PLAS5017025	£3.85
1 1/4"	PLAS5017032	£4.22
1 1/2"	PLAS5017040	£4.92



**THREADED REDUCING BUSH**  
Plasson 5027

3/4" to 1/2"	PLAS5027020015	£1.97
1" to 1/2"	PLAS5027025015	£2.15
1" to 3/4"	PLAS5027025020	£2.15
1 1/4" to 1/2"	PLAS5027032015	£2.78
1 1/4" to 3/4"	PLAS5027032020	£2.78
1 1/4" to 1"	PLAS5027032025	£2.78
1 1/2" to 1/2"	PLAS5027040015	£3.39
1 1/2" to 3/4"	PLAS5027040020	£3.39
1 1/2" to 1"	PLAS5027040025	£3.39
1 1/2" to 1 1/4"	PLAS5027040032	£3.39



**90° TEE**  
Plasson 5047

1/2"	PLAS5047015	£3.20
3/4"	PLAS5047020	£3.50
1"	PLAS5047025	£5.17
1 1/4"	PLAS5047032	£7.52
1 1/2"	PLAS5047040	£8.84



**90° ELBOW**  
Plasson 5057

1/2"	PLAS5057015	£2.42
3/4"	PLAS5057020	£3.20
1"	PLAS5057025	£3.98
1 1/4"	PLAS5057032	£5.53
1 1/2"	PLAS5057040	£6.35



**THREADED NIPPLE**  
Plasson 5067

1/2" to 1/2"	PLAS5067015015	£1.76
3/4" to 3/4"	PLAS5067020020	£1.97
1" to 1"	PLAS5067025025	£2.33
1 1/4" to 1 1/4"	PLAS5067032032	£3.56
1 1/2" to 1 1/2"	PLAS5067040040	£4.68



**THREADED REDUCING NIPPLE**  
Plasson 5027

3/4" to 1/2"	PLAS5065020015	£1.97
1" to 1/2"	PLAS5065025015	£2.33
1" to 3/4"	PLAS5065025020	£2.33
1 1/4" to 1/2"	PLAS5065032015	£3.56
1 1/4" to 3/4"	PLAS5065032020	£3.56
1 1/4" to 1"	PLAS5065032025	£3.56
1 1/2" to 1/2"	PLAS5065040015	£4.68
1 1/2" to 3/4"	PLAS5065040020	£4.68
1 1/2" to 1"	PLAS5065040025	£4.68
1 1/2" to 1 1/4"	PLAS5065040032	£4.68



**THREADED CAP**  
Plasson 5077

1/2"	PLAS5077015	£1.48
3/4"	PLAS5077020	£1.58
1"	PLAS5077025	£2.14
1 1/4"	PLAS5077032	£2.53
1 1/2"	PLAS5077040	£3.85



**THREADED RISER (150mm long)**  
Plasson 5167

1/2" to 1/2"	PLAS5167015015	£2.78
3/4" to 1/2"	PLAS5167020015	£3.68
3/4" to 3/4"	PLAS5167020020	£3.68
1" to 1"	PLAS5167025025	£5.95
1 1/4" to 1 1/4"	PLAS5167032032	£6.24
1 1/2" to 1 1/4"	PLAS5167040032	£6.75
1 1/2" to 1 1/2"	PLAS5167040040	£6.75



**THREADED PLUG**  
Plasson 5177

1/2"	PLAS5177015	£1.48
3/4"	PLAS5177020	£1.58
1"	PLAS5177025	£2.15
1 1/4"	PLAS5177032	£2.53
1 1/2"	PLAS5177040	£3.85

A wider selection of fittings are available from stock upon request.

# Hansen Threaded Fittings

0 - 16 bar WRAS Approved Heavy Duty Glass Nylon



## THREADED SOCKET

1/2"	HANSOCKET015	£1.10
3/4"	HANSOCKET020	£1.50
1"	HANSOCKET025	£1.85
1 1/4"	HANSOCKET032	£2.28
1 1/2"	HANSOCKET040	£2.91



## THREADED REDUCING BUSH

1/2" - 1/4"	HANREDBUSH015008	£1.29
3/4" - 1/2"	HANREDBUSH020015	£1.17
1" - 1/2"	HANREDBUSH025015	£1.37
1" - 3/4"	HANREDBUSH025020	£1.37
1 1/4" - 1"	HANREDBUSH032025	£1.66
1 1/2" - 3/4"	HANREDBUSH040020	£2.21
1 1/2" - 1"	HANREDBUSH040025	£2.21
1 1/2" - 1 1/4"	HANREDBUSH040032	£2.21



## 90° TEE

1/2"	HANTEE015	£1.90
3/4"	HANTEE020	£2.28
1"	HANTEE025	£3.05
1 1/4"	HANTEE032	£3.32
1 1/2"	HANTEE040	£3.91



## 90° ELBOW FEMALE X FEMALE

1/2"	HANELBFF015	£1.66
3/4"	HANELBFF020	£1.90
1"	HANELBFF025	£2.28
1 1/4"	HANELBFF032	£2.47
1 1/2"	HANELBFF040	£3.07



## 90° ELBOW MALE X FEMALE

1/2"	HANELBMF015	£1.66
3/4"	HANELBMF020	£1.90
1"	HANELBMF025	£2.28
1 1/4"	HANELBMF032	£3.16
1 1/2"	HANELBMF040	£3.64



## THREADED NIPPLE

1/2"	HANHEXNIP015	£0.65
3/4"	HANHEXNIP020	£0.84
1"	HANHEXNIP025	£0.98
1 1/4"	HANHEXNIP032	£1.37
1 1/2"	HANHEXNIP040	£1.61



## THREADED REDUCING NIPPLE

3/4" - 1/2"	HANREDNIP020015	£0.84
1" - 1/2"	HANREDNIP025015	£0.98
1" - 3/4"	HANREDNIP025020	£0.98
1 1/4" - 1"	HANREDNIP032025	£1.37
1 1/2" - 3/4"	HANREDNIP040020	£1.61
1 1/2" - 1"	HANREDNIP040025	£1.61
1 1/2" - 1 1/4"	HANREDNIP040032	£1.61



## THREADED REDUCING SOCKET

3/4" - 1/2"	HANREDSOCK020015	£1.50
1" - 1/2"	HANREDSOCK025015	£1.85
1" - 3/4"	HANREDSOCK025020	£1.85
1 1/4" - 1"	HANREDSOCK032025	£2.28
1 1/2" - 1"	HANREDSOCK040025	£2.64
1 1/2" - 1 1/4"	HANREDSOCK040032	£2.89



## THREADED UNION

3/4"	HANUNFF020	£13.09
1"	HANUNFF025	£13.68
1 1/4"	HANUNFF032	£16.10
1 1/2"	HANUNFF040	£17.46



## THREADED CAP

1/2"	HANCAP015	£0.86
3/4"	HANCAP020	£0.98
1"	HANCAP025	£1.28
1 1/4"	HANCAP032	£1.82
1 1/2"	HANCAP040	£2.18



## THREADED PLUG

1/2"	HANPLUG015	£0.46
3/4"	HANPLUG020	£0.52
1"	HANPLUG025	£0.65
1 1/4"	HANPLUG032	£0.78
1 1/2"	HANPLUG040	£0.98

## Polypropylene Threaded Fittings

Economy Poly Threaded Fittings 0 - 4 bar (NON WRAS)



### THREADED SOCKET

Reducing Socket Female BSP

Socket Female BSP

1/2" - 3/4"

3/4" - 1"

1/2"

3/4"

1"

PPREDSOCK020015 **£0.33**

PPREDSOCK025020 **£0.44**

PPSOCKET015 **£0.32**

PPSOCKET020 **£0.30**

PPSOCKET025 **£0.41**



### 90° THREADED TEE

Female BSP

3/4"

1"

PPTEE020

**£1.07**

PPTEE025

**£1.23**



### THREADED PLUG

Threaded plug with hex head

1/2"

3/4"

1"

PPPLUG015

**£0.18**

PPPLUG020

**£0.19**

PPPLUG025

**£0.30**



### 90° THREADED ELBOW

Female BSP

1/2"

3/4"

1"

PPELBOWFF015

**£0.67**

PPELBOWFF020

**£0.80**

PPELBOWFF025

**£1.00**



### THREADED NIPPLE

Male BSP

1/2"

3/4"

1"

PPNIPPLE015

**£0.14**

PPNIPPLE020

**£0.16**

PPNIPPLE025

**£0.37**



### THREADED REDUCING NIPPLE

Male BSP

3/4" - 1/2"

1" - 3/4"

PPREDNIP020015

**£0.17**

PPREDNIP025020

**£0.40**



### FEMALE—MALE REDUCER

Female to Male

3/4" - 1/2"

1" - 1/2"

1" - 3/4"

PPFMRED020015

**£0.44**

PPFMRED025015

**£0.71**

PPFMRED025020

**£0.71**



### THREADED CAP

Female BSP

1/2"

3/4"

1"

PPCAP015

**£0.18**

PPCAP020

**£0.25**

PPCAP025

**£0.31**



### THREADED REDUCING BUSH

Male to Female

3/4" - 1/2"

1" - 1/2"

1" - 3/4"

PPBUSH020015

**£0.29**

PPBUSH025015

**£0.40**

PPBUSH025020

**£0.40**

*A wider selection of fittings are available from stock upon request.*

## Valves



### POLY BALL VALVE

Poly ball valve with compression fittings

20mm  
25mm  
32mm  
40mm  
50mm

VALVECC020 £12.55  
VALVECC025 £17.85  
VALVECC032 £20.25  
VALVECC040 £24.83  
VALVECC050 £28.19



### PLASSON STOP TAP

Plasson 3407 compression stop tap for above and below ground. To BS5433 type and WRAS approved.

20mm  
25mm  
32mm

PLAS340720 £25.27  
PLAS340725 £35.82  
PLAS340732 £55.48



### PLASSON STOP TAP

Plasson 9050 compression universal stop tap. To BS5433/1010 type. WRAS approved. For below ground use.

20mm  
25mm  
32mm

PLAS9050020 £47.92  
PLAS9050025 £60.51  
PLAS9050032 £126.71



### PLASSON STOP TAP

Plasson 3405 for above ground use to BS1010/2 type. WRAS approved BSPF

3/4"  
1"

PLAS3405020 £12.47  
PLAS3405025 £13.57



### BRASS GATE VALVES

Heavy duty with female BSP threads. Non WRAS approved

1/2"  
3/4"  
1"  
1 1/4"  
1 1/2"

GATEBRAS015 £3.94  
GATEBRAS020 £5.98  
GATEBRAS025 £7.96  
GATEBRAS032 £12.70  
GATEBRAS040 £15.96



### BRONZE GATE VALVES

Heavy duty PN20 with female BSP threads to BS5154. WRAS approved. BSPF

1/2"  
3/4"  
1"  
1 1/4"  
1 1/2"

GATEBOS25SM015 £14.86  
GATEBOS25SM020 £18.96  
GATEBOS25SM025 £29.46  
GATEBOS25SM032 £42.80  
GATEBOS25SM040 £51.20



### PLASSON ARTIC ICE RESISTANT VALVE

Designed specifically to cope with freezing. BSPF

1/2"  
3/4"  
1"

PLASIRV2099015 £20.31  
PLASIRV2099020 £24.81  
PLASIRV2099025 £36.06



### STANDARD ICE RESISTANT VALVE

Ice valves with brass chromium ball 16 bar rated. BSPF

1/2"  
3/4"  
1"

VALVEICE015 £10.75  
VALVEICE020 £13.65  
VALVEICE025 £16.47



### BRASS FULL FLOW BALL VALVES

Full bore, tapered threaded with a plastic sleeved plated steel handle. BSPF. 25 bar rated.

1/2"  
3/4"  
1"  
1 1/4"  
1 1/2"

FULLFIG84015 £3.68  
FULLFIG84020 £5.70  
FULLFIG84025 £8.36  
FULLFIG84032 £14.30  
FULLFIG84040 £19.96



### HANSEN GRN FULL FLOW BALL VALVES

High quality full flow valve BSPF. 16 bar rated.

1/2"  
3/4"  
1"  
1 1/4"  
1 1/2"  
2"

HANVAL015 £15.64  
HANVAL020 £15.64  
HANVAL025 £21.48  
HANVAL032 £25.98  
HANVAL040 £33.51  
HANVAL050 £42.01

**NEW !**



### ASTORE PVC BALL VALVE

Astore PVC ball valve double union body. BSPF

1/2"  
3/4"  
1"

ASTVALDTT32120 £25.62  
ASTVALDTT32125 £27.90  
ASTVALDTT32132 £42.91



### PVC BALL VALVE

Double Union body BSPF

1/2"  
3/4"  
1"

PVCVALVE015 £12.74  
PVCVALVE020 £15.01  
PVCVALVE025 £18.79

## Sprinkler Selection Guide

A pop-up sprinkler's radius of throw is usually the key factor in selecting a specific model. The information below will help you make the initial choice of sprinkler. The data shown is the minimum and maximum range of each sprinkler under zero wind conditions.

Remember that sprinklers should overlap by at least 50% (head to head).

### RAIN BIRD ROTORS



#### Rain Bird 1800 Series Spray Head

Radius: 0.5 - 7.4m  
Pressure: 1.0 - 3.8 bar  
Flow: 0.02 - 0.30m³/h



#### Rain Bird 3500 Series Rotor

Radius: 4.6 - 10.7m  
Pressure: 1.7 - 3.8 bar  
Flow: 0.12 - 1.04m³/h



#### Rain Bird 5000 Series Rotor

Radius: 7.6 - 15.2m  
Pressure: 1.7 - 4.5 bar  
Flow: 0.17 - 2.19m³/h



#### Rain Bird 6504 Falcon Series Rotor

Radius: 11.3 - 19.8m  
Pressure: 2.1 - 6.2 bar  
Flow: 0.66 - 4.93m³/h



#### Rain Bird 8005 Series Rotor

Radius: 11.9 - 24.7m  
Pressure: 3.5 - 6.9 bar  
Flow: 2.54 - 8.24m³/h



#### Rain Bird Eagle 351B & 500/550 Series Rotor

Radius: 5.5 - 17.1m  
Pressure: 4.0 - 6.0 bar  
Flow: 0.40 - 3.53m³/h



#### Rain Bird Eagle 700/751 Series Rotor

Radius: 16.8 - 25.3m  
Pressure: 4.1 - 6.9 bar  
Flow: 3.04 - 10.02m³/h



#### Rain Bird Eagle 900/950 Series Rotor

Radius: 19.2 - 29.6m  
Pressure: 4.1 - 6.9 bar  
Flow: 4.43 - 13.49m³/h

### HUNTER & TORO OPTIONS (Approx)

Hunter Pro Spray Series (0.61 - 9.15m)  
Toro 570Z Series (2.2 - 5.5m)

Hunter PGJ Series (4.6 - 11.3m)  
Toro Mini-8 Series (6.1 - 10.7m)  
Toro 300 Series (4.6 - 9.2m)

Hunter PGP Series (6.7 - 15.8m)  
Hunter I-20 Ultra Series (5.2 - 14.3m)  
Toro TR50XT Series (6.5 - 15.9m)  
Toro Super 800 Series (8.5 - 15.3m)

Hunter I-25 Series (12.2 - 21.6m)  
Hunter I-35 Sierra Series (14.0 - 21.6m)  
Toro TR70XT Series (13.4 - 21.2m)  
Toro 2001 Series (15.0 - 21.7m)

Hunter I-35 Sierra Series (14.0 - 21.6m)  
Hunter I-40 Series (13.7 - 21.3m)  
Hunter I-60 Series (15.2 - 20.1m)  
Toro TR70XT Series (13.4 - 21.2m)  
Toro 2001 Series (15.0 - 21.7m)

Toro 720/720G Series (5.5 - 11.5m)  
Toro 810G Series (9.1 - 21.3m)

Hunter G70/G75 Series (16.1 - 22.8m)  
Hunter G870/G875 Series (16.2-22.9m)  
Toro 835S Series (16.8 - 27.8m)

Hunter G880 Series (20.4 - 26.8m)  
Hunter G990 Series (23.2 - 29.9m)  
Toro 835S Series (16.8 - 27.8m)  
Toro 855S Series (18.9 - 30.5m)



## Rain Bird Pop-Up Spray Heads



### RAIN BIRD UNI-SPRAY SERIES

The Uni-Spray is the highest quality spray head for the best price on the market.

- Durable 2-piece stem ratchet allowing quick nozzle alignment
- SAM check valve kit (optional)
- Dimensions: Body Height: 15.0cm, Exposed Diameter 3.2cm
- Inlet: ½" female BSP
- Pressure: 1.0 - 2.1 bar
- Flow & Radius: nozzle dependant

US-400  
US Sam Kit

RBUS-400      £1.70  
RBUS-SAM-KIT      £1.40

### RAIN BIRD 1800 SERIES

The Rain Bird 1800 Series is the worlds No.1 selling pop-up spray head further strengthened with the RD version for the most demanding projects.

- Constructed from UV-resistant plastic and stainless steel parts for long life
- Durable 2-piece ratchet mechanism allowing quick nozzle alignment
- RD model design for harsh conditions & 5 year warranty with PRS
- SAM check valve and/or pressure regulating stem (optional)
- Dimensions: Body Height: 15.0cm for 1804, 24.0cm for 1806 and 40cm for 1812 Exposed Diameter 5.7cm
- Inlet: ½" female BSP (optional use of side inlet on 1806 & 1812 models)
- Pressure: 1.0 - 2.1 bar
- PRS version has pressure regulating stem & SAM for consistent performance

**1800 RD Series  
With PRS & SAM**

1802	RB1802	£2.60
1804	RB1804	£2.60
1804 SAM	RB1804SAM	£5.00
1804RDSAMPRS	RB1804SAM-PRS	£8.30
1806	RB1806	£8.30
1806 SAM	RB1806SAM	£12.60
1806 RDSAM PRS	RB1806SAM-PRS	£13.30
1812	RB1812	£12.90
1812 SAM	RB1812SAM	£15.50
1812 RDSAM PRS	RB1812SAM-PRS	£17.90

### RAIN BIRD MPR SERIES NOZZLES FOR 1800 SERIES

With flow and Radius adjustment screw. Available in 90°(Q), 180° (H) & 360° (F)



#### SPECIFICATIONS

Pressure: 1 to 2.1 Bar

0.5 - 1.5m radius (5 Series)

RBUMPR05F      £1.80  
RBUMPR05H      £1.80  
RBUMPR05Q      £1.80

1.5 - 2.5m radius (8 Series)

RBUMPR08F      £1.80  
RBUMPR08H      £1.80  
RBUMPR08Q      £1.80

2.0 - 3.0 m radius (10 Series)

RBUMPR10F      £1.80  
RBUMPR10      £1.80  
RBUMPR10Q      £1.80

2.5 - 3.5 m radius (12 Series)

RBUMPR12F      £1.80  
RBUMPR12H      £1.80  
RBUMPR12Q      £1.80

3.5 - 4.5 m radius (15 Series)

RBUMPR15F      £1.80  
RBUMPR15H      £1.80  
RBUMPR15Q      £1.80

Square pattern  
End strip pattern  
Centre strip pattern  
Side strip pattern

RBUMPR15SQ      £1.80  
RBUMPR15EST      £1.80  
RBUMPR15CST      £1.80  
RBUMPR15SST      £1.80

### RAIN BIRD VAN NOZZLES FOR 1800 SERIES (VARIABLE ARC NOZZLE)

Flow and Radius adjustable screw to enable up to 25% reduction

#### SPECIFICATIONS

Pressure : 1 to 2.1 Bar

Easy arc adjustment from :  
0 to 360° in a single nozzle

0.9 - 1.2m radius  
1.2 - 1.8m radius  
1.8 - 2.4m radius  
2.1 - 3.1m radius  
2.7 - 3.7m radius  
3.4 - 4.6m radius  
4.3 - 5.5m radius

RBVAN04      £1.60  
RBVAN06      £1.60  
RBVAN08      £1.60  
RBVAN10      £1.60  
RBVAN12      £1.60  
RBVAN15      £1.60  
RBVAN18      £1.60

## Rain Bird Rotary Nozzles



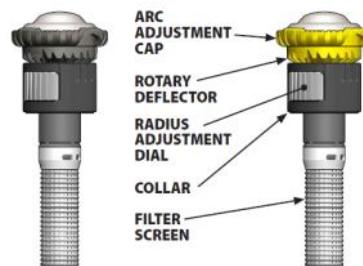
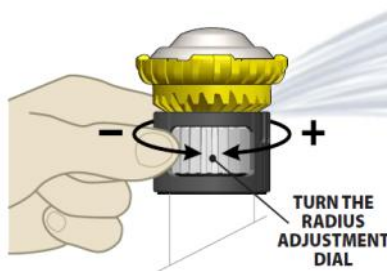
### RAIN BIRD ROTARY NOZZLE SERIES

The Rain Bird Rotary Nozzle range offer highly efficiency water distribution with maximum design flexibility. The rotating stream technology uniformly delivers water at low precipitation rates, significantly reducing run-off and erosion.

When used to replace or retrofit a standard spray nozzle the R-Van adjustable rotary nozzles range can reduce flow rates buy up to 60%, and improve water distribution efficiency by up to 30%. Ideal for both turf and planted areas.

The range has recently been extended with the addition of three strip nozzles (left strip, right strip and centre strip)

**NEW  
MODELS !**

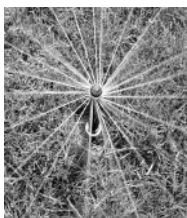


### FEATURES

- Multiple rotating stream technology distributing water uniformly throughout the nozzle range
- Low precipitation rates significantly reducing run-off and erosion
- Flow rates reduced by up to 60% and up to 30% more efficient distribution (compared to standard spray nozzles)
- Colour coded for easy identification
- Matched precipitation across all radius and arcs to simplify design
- Compatible with Rain Bird 5000 series with MPR nozzles
- Maintain highly efficient performance throughout the 1.4 to 3.8 bar pressure range, with no misting or fogging at high pressures.
- Compatible with all Rain Bird & Hunter pop-up sprays
- A 'pull up to flush' feature clears nozzle of dirt & debris
- Adjustable arc without tools on R-VAN Models
- Adjustable radius without tools on all models
- Left alignment indicator for left start point
- 3 year warranty
- Choice of radius 2.4m-4.6m, 4.0m-5.5m, 5.2m-7.3m
- R-VAN part circle models have arc adjustment of 45° - 270° in a single unit (**equivalent to 3 different MP rotators**)
- Three full circle models, one for each radius range.
- Three Strip Nozzles (Left & Right 1.5m x 4.6m, Centre 1.5m x 9.1m)
- Heavier stream design helps to prevent wind drift
- Pressures 2.1 - 3.8 bar (recommended operating pressure 3.1 bar)



**Now in 3 Radius Options from  
2.4m to 7.3m  
PLUS  
Side & Centre Strips**



RVAN 14	45°-270°	2.4m-4.6m Radius	RBRNVAN0414	£7.90
RVAN 18	45°-270°	4.0m-5.5m Radius	RBRNVAN1318	£7.90
RVAN 24	45°-270°	5.2m-7.3m Radius	RBRNVAN1724	£7.90
RVAN-14F	360°	2.4m-4.6m Radius	RBRN08-14F	£7.90
RVAN-18F	360°	4.0m-5.5m Radius	RBRN13-18F	£7.90
RVAN-24F	360°	5.2m-7.3m Radius	RBRN17-24F	£7.90
RVAN-RCS	Right Strip	1.5m-4.6m Strip	RBRVANRCS	£7.90
RVAN-RCS	Left Strip	1.5m-4.6m Strip	RBRVANLCS	£7.90
RVAN-SST	Centre Strip	1.5m-9.1m Strip	RBRVANSST	£7.90

## 1800 Series Accessories & MP Rotators

### RAIN BIRD 1800 SERIES ACCESSORIES



#### 1800EXT

Plastic extension extends all 1800 series models an additional 15 cm in height.

RB1800EXT **£4.70**



#### 1800XBA

Adapts Micro-Quick sprays, spinners and xeri-sprays to fit 1800 series heads.

RBXBA-1800 **£1.48**



#### 1800 SERIES RETROFIT KIT

For 1800 series spray heads, permits convenient conversion to drip tubing when used with compression adaptor.

RB1800RETRO **£9.54**



#### 1800 SERIES BLANKING CAP

For blanking off spray Heads.

RBXC-1800 **£2.30**



#### PA-8S SHRUB ADAPTOR

Use with ½" male threaded risers to enable fitting of MPR & VAN nozzles.

RBPA-8S **£2.30**

### MP ROTATOR NOZZLES FOR SPRAYHEADS



MP Rotators feature a unique, multi-trajectory rotating stream delivery system. Designed to fit any conventional spray head (Rain Bird, Hunter, Nelson) or shrub adaptor, transforming it into a high uniformity, low precipitation rate sprinkler. The MP Rotator provides a efficient multi-stream, with matched precipitation at any arc and radius between 1.2m to 9.1m.

#### FEATURES:

- Multi-trajectory rotating stream
- Matched precipitation at any arc and any radius
- Low precipitation rate reduces run-off on slopes and tight soils
- 'Double-pop' flushed on start-up and shut-down
- Easy arc adjustment and easy radius adjustment up to 25%

#### SPECIFICATIONS:

Pressure Range: 1.7 - 3.8 bar  
Radius: 1.8m - 10.7m

	Radius	Arc		
MP0800SR	1.8m - 3.5m	90° - 210°	MP0800A-90210	<b>£8.80</b>
MP0800SR	1.8m - 3.5m	360°	MP0800C-360	<b>£8.80</b>
MP1000	2.4m - 4.6m	90° - 210°	MP1000A-90210	<b>£8.80</b>
MP1000	2.4m - 4.6m	210° - 270°	MP1000B-210270	<b>£8.80</b>
MP1000	2.4m - 4.6m	360°	MP1000C-360	<b>£8.80</b>
MP2000	4.0m - 6.4m	90° - 210°	MP2000A-90210	<b>£8.80</b>
MP2000	4.0m - 6.4m	210° - 270°	MP2000B-210270	<b>£8.80</b>
MP2000	4.0m - 6.4m	360°	MP2000C-360	<b>£8.80</b>
MP3000	6.7m - 9.1m	90° - 210°	MP3000A-90210	<b>£8.80</b>
MP3000	6.7m - 9.1m	210° - 270°	MP3000B-210270	<b>£8.80</b>
MP3000	6.7m - 9.1m	360°	MP3000C-360	<b>£8.80</b>
MP3500	9.4m - 10.7m	90° - 210°	MP3500-90210	<b>£8.80</b>
MPCorner	2.4m - 4.6m	45° - 105°	MPSTRIPCORNER	<b>£8.80</b>
MP Left Strip	1.5m - 4.6m		MPSTRIPLEFT	<b>£8.80</b>
MP Right Strip	4.6m - 1.5m		MPSTRIPRIGHT	<b>£8.80</b>
MP Side Strip	4.6m - 1.5m - 4.6m		MPSTRIPSIDE	<b>£8.80</b>

MP Rotator Adjustment Tool

MPROTATORTOOL **£0.70**



## Rain Bird Short to Mid Range Rotors



### RAIN BIRD 3500 SERIES

The Rain Bird 3500 Series is Europe's best selling short to mid range ½" gear drive rotor, offering value and convenience for garden applications.

- Top adjust arc adjustment requiring only a flat bladed screwdriver
- Radius adjustment screw allows up to 35% reduction in radius
- Selection of 6 Rain Curtain performance nozzles (supplied)
- SAM check valve (optional)
- 3 year warranty
- Dimensions: Body Height: 16.8cm, Exposed Diameter 2.9cm
- Inlet: ½" female BSP
- Pressure: 1.7 - 3.8 bar and Radius of 4.6 - 10.7 meters
- Flow: 0.12 - 1.04 m³/h and Arc adjustment from 40° - 360°

3504 PC  
3504 SAM

RB3504PC £11.40  
RB3504SAM £15.60

### RAIN BIRD 5000 SERIES (MID RANGE GEAR DRIVE MOTOR)

The Rain Bird 5000 Series mid range ¾" gear drive rotor. The range has greater durability, high quality standards and superior performance. Ideal for residential and commercial landscape applications.

- Top-adjust arc adjustment requiring only a flat bladed screwdriver
- Radius adjustment screw allows up to 25% reduction in radius
- Selection of 12 Rain Curtain performance nozzles
- Individual Flow Shut-off (5000 Plus models only)
- SAM check valve pre-installed or an extra (optional)
- Models available with Pressure Regulating Stem (PRS) to 3.1bar and Stainless Steel (SS) Riser
- 5 year warranty
- Dimensions: Body Height: 18.5cm for 5004, 24.5cm for 5006 and 42.9cm for 5012, Exposed Diameter 4.1cm
- Inlet: ¾" female BSP (bottom inlet only on all units with SAM)
- Pressure: 1.7 - 4.5 bar and Radius of 7.6 - 15.2 meters
- Flow: 0.16 - 1.91 m³/h and Arc adjustment from 40° - 360°

5004 PC  
5004 PC SAM

RB5004-PC £12.30  
RB5004-PC-SAM £15.00

5004 Plus FC (Full Only)  
5004 Plus PC  
5004 Plus PC PRS SS SAM

RB5004PLUS-FC £15.00  
RB5004PLUS-PC £15.00  
RB5004PLUSPCPRS £24.90

5006 Plus PC  
5006 Plus PC SS SAM  
5012 Plus PC PRS SAM

RB5006-PLUS-PC £42.90  
RB5006PLUSPCSSA £53.50  
RB5012PLUSPCPRS £50.30

### RAIN BIRD 5000 SERIES ACCESSORIES



#### 5000 SAM KIT

SAM kit for installation with a 5000 series rotor. Quick and easy to fit in any of the 5000 series rotors. Can only be used with bottom entry to sprinklers

RB5000PLUS-SAMKI £6.90

#### 5000 SERIES NOZZLE TREE

Replacement nozzle tree for the 5000 series rotors. Contains a selection of 12 Rain Curtain performance nozzles, including 4 low angle nozzles for windy conditions.

RB5000PLUS-TREE £FOC

#### MPR NOZZLES FOR 5000 SERIES

Matched Precipitation Rate (MPR) Nozzles simplify both system design and the installation of 5000 series rotors. Quarter, third, half and full circle pattern nozzles can all be mixed on the SAME zone with THREE different radius choices.

- 30 pack containing 10 of each nozzle range
- 3 pre-set nozzle range trees, containing 4 nozzles Quarter (90°), Third (120°), Half (180°) and Full (360°) circle
- Colour coded for easy identification
- Radius: 7.6m, 9.1m and 10.7m
- Pressure: 1.7 - 4.5 bar
- Flow rate: 0.17 - 2.09 m³/hr

MPR PACK

RB5000PLUS-MPRM £FOC



## Rain Bird Mid to Long Range Rotors

### RAIN BIRD 6504 SERIES (FALCON)

The Rain Bird 6504 Falcon series rotor is ideal for large turf sites as well as a variety of athletic fields, football and rugby pitches, and tennis courts.



- Top-adjust arc adjustment requiring only a flat bladed screwdriver
- High Speed (HS) version available, ideal for dust suppression
- Colour coded Rain Curtain performance nozzles with multiple ports for optimal watering across all ranges (nozzles supplied separately)
- Radius adjustment screw allows radius reduction of up to 25%
- Stainless steel trip gears ensure long-term durability
- SAM check valve pre-installed and Stainless Steel (SS) Riser (optional)
- 5 year warranty
- Dimensions: Body Height: 21.6cm, Exposed Diameter 5.1cm
- Inlet: 1" female BSP
- Pressure: 2.1 - 6.2 bar
- Radius: 11.9 - 19.8 meters
- Flow: 0.66 - 4.93 m<sup>3</sup>/h
- Arc: 40° - 360° Part Circle or Full Circle

**HIGH SPEED MODEL AVAILABLE**  
For dust suppression and clay surfaces

6504 Falcon FC  
6504 Falcon FC SS  
6504 Falcon PC  
6504 Falcon PC SS  
6504 Falcon PC SS HS

RBFALCONFC **£57.90**  
RBFALCONFC-SS **£74.00**  
RBFALCONPC **£57.90**  
RBFALCONPC-SS **£74.00**  
RBFALCONPC-SSHS **£115.40**

### RAIN BIRD 8005 SERIES

The Rain Bird 8005 Series rotor is ideal for large turf areas including a variety of athletic, football and rugby pitches. Design to withstand harsh conditions and vandalism, with the highest reliability for the modern market. The 8005 Series is a full-featured state-of-the-art commercial rotor with approval by French/Swiss Football Federation for installation on playing surfaces.



- Top-adjust arc adjustment requiring only a flat bladed screwdriver
- Full and Part Circle in one unit
- Brass reinforced turret to riser connection to withstand side impacts
- Colour coded Rain Curtain performance nozzles with multiple ports for optimal watering across all ranges (nozzles supplied separately)
- Anti-Vandal protection with Memory Arc returning sprinkler to original setting after tampering
- SAM check valve pre-installed and Stainless Steel (SS) Riser (optional)
- SOD Cup for complete underground installation, making it ideal for playing surfaces (optional)
- 5 year warranty
- Dimensions: Body Height: 25.7cm, Exposed Diameter 4.8cm
- Inlet: 1" female BSP
- Pressure: 3.5 - 6.9 bar
- Radius: 11.9 - 24.7 meters
- Flow: 2.54 - 8.24 m<sup>3</sup>/h
- Arc: 40° - 360° Part Circle or Full Circle

8005 FC/PC  
8005 FC/PC SS  
8005 SOD CUP

RB8005 **£78.97**  
RB8005SS **£94.31**  
RB8005-SODCUP **£54.55**

### RAIN BIRD 6504 FALCON/8005 SERIES NOZZLES

Supplied separately to the 6504 Falcon and 8005 series sprinklers. Please specify nozzle size required when ordering. Distances achieved by nozzles are dependant on rotor and system pressure & flow.



	No.4 11.9m - 13.1m	RBB81600-04	<b>£0.00</b>
	No.6 13.1m - 14.9m	RBB81600-06	<b>£0.00</b>
	No.8 14.9m - 16.1m	RBB81600-08	<b>£0.00</b>
	No.10 15.5m - 16.8m	RBB81600-10	<b>£0.00</b>
	No.12 16.2m - 18.6m	RBB81600-12	<b>£0.00</b>
	No.14 16.8m - 19.8m	RBB81600-14	<b>£0.00</b>
	No.16 16.8m - 21.0m	RBB81600-16	<b>£0.00</b>
	No.18 18.0m - 21.7m	RBB81600-18	<b>£0.00</b>
(8005 only)	No.20 19.9m - 22.9m	RBB81600-20	<b>£0.00</b>
(8005 only)	No.22 20.0m - 23.5m	RBB81600-22	<b>£0.00</b>
(8005 only)	No.24 19.3m - 24.1m	RBB81600-24	<b>£0.00</b>
(8005 only)	No.26 20.0m - 24.7m	RBB81600-26	<b>£0.00</b>



## Eagle 700 & 751 Series

### RAIN BIRD 700/751 EAGLE SERIES

The Rain Bird 700/751 Eagle Series rotors are designed with precise control, high uniformity and high durability for golf and sports turf applications. Available in 'Block' or 'Valve-in-Head' (VIH) versions.

#### Rain Bird 700B/751B Block Rotor

Typically used on golf course for greens, tees and approaches. Controlled by a solenoid valve they are usually run in pairs.

- 700B Full Circle or 751B Full or Part Circle pre-installed with a No.40 nozzle (pre-installed with other nozzles size available if ordered in box quantities)
- Fully serviceable from the top down
- Colour coded Rain Curtain performance nozzles with multiple ports for optimal watering across all ranges
- Anti-Vandal protection with Memory Arc
- 3 year warranty (5 year warranty if installed with a Rain Bird swing joint)
- Dimensions: Body Height: 24.5cm, Exposed Diameter 10.8cm
- Inlet: 1" female ACME
- Inlet Pressure: 3.4 - 6.9 bar
- Radius: 700B 17.1m - 24.1m and 751B 10.7m - 22.9m
- Flow: 700B 3.70 - 9.95 m<sup>3</sup>/h and 751B 1.59 - 8.56 m<sup>3</sup>/h
- Arc: 700B Full Circle or 751B Full Circle or 30° - 345°



700B-40	RB700B-40	£152.50
751B-40	RB751B-40	£168.30

#### Rain Bird 700E/751E Valve-in-Head (VIH) Rotor

Typically used on golf courses for fairways, large greens, tees and approaches. Built-in solenoid valve usually run individually.

- 700E Full Circle or 751E Full or Part Circle pre-installed with a No.40 nozzle (pre-installed with other nozzles size available if ordered in box quantities)
- Fully serviceable from the top down
- Built-in solenoid valve for direct connection to decoder and/or signal cable
- Colour coded Rain Curtain performance nozzles with multiple ports for optimal watering across all ranges
- Anti-Vandal protection with Memory Arc
- Adjustable pressure regulator for precise control factory pre-set to 4.8 bar
- 3 year warranty (5 year warranty if installed with a Rain Bird swing joint)
- Dimensions: Body Height: 30.5cm, Exposed Diameter 15.9cm
- Inlet: 1 1/4" female ACME
- Inlet Pressure: 3.4 - 10.3 bar
- Radius: 700E 17.1m - 24.1m and 751E 10.7m - 22.9m
- Flow: 700E 3.70 - 9.95 m<sup>3</sup>/h and 751E 1.59 - 8.56 m<sup>3</sup>/h
- Arc: 700E Full Circle or 751E Full Circle or 30° - 345°



700E-40	RB700E-40	£311.40
751E-40	RB751E-40	£352.60

*NB. Rain Bird 700/751 Eagles are also available in 'S' Stop-o-matic or 'IC' Integrated Control. Please ask for details.*

### RAIN BIRD 700 EAGLE NOZZLES (FULL CIRCLE)

Can be pre-installed on request (boxed quantities only).

White	No.28	RB213700-28	£5.60
Blue	No.32	RB213700-32	£5.60
Yellow	No.36	RB213700-36	£5.60
Orange	No.40	RB213700-40	£5.60
Green	No.44	RB213700-44	£5.60
Black	No.48	RB213700-48	£5.60

### RAIN BIRD 751 EAGLE NOZZLES (PART CIRCLE)

Can be pre-installed on request (boxed quantities only).

White	No.28	RB213750-28	£7.70
Blue	No.32	RB213750-32	£7.70
Yellow	No.36	RB213750-36	£7.70
Orange	No.40	RB213750-40	£7.70
Green	No.44	RB213750-44	£7.70
Black	No.48	RB213750-48	£7.70



## Eagle 900 & 950 Series

### RAIN BIRD 900/950 EAGLE SERIES

The Rain Bird 900/950 Eagle Series rotors are designed with precise control, high uniformity and high durability for golf and sports turf applications.

#### Rain Bird 900E/950E Valve-in-Head (VIH) Rotor

Typically used on golf course for fairways, large greens, tees and approaches. Built-in solenoid valve usually run individually.



- 900E Full Circle or 950E Part Circle pre-installed with a No.60 nozzle (900E) and No.28 nozzle (950E) (pre-installed with other nozzles size available if ordered in box quantities)
- Fully serviceable from the top down
- Built-in solenoid valve for direct connection to decoder or signal cable
- Colour coded Rain Curtain performance nozzles with multiple ports for optimal watering across all ranges
- Anti-Vandal protection with Memory Arc returning sprinkler to original setting after tampering
- Adjustable pressure regulator for precise control factory pre-set to 5.6 bar (tool required)
- 3 year warranty (5 year warranty if installed with a Rain Bird swing joint)
- Dimensions: Body Height: 34.0cm, Exposed Diameter 17.8cm
- Inlet: 1½" female ACME
- Inlet Pressure: 4.1—10.3 bar
- Radius: 900E 19.2m - 29.6m and 950E 21.3m - 28.0m
- Flow: 900E 4.85 - 12.97 m³/h and 950E 4.43 - 13.49 m³/h
- Arc: 900E Full Circle or 950E Full Circle or 30° - 345°

900E-60	RB900E-60	£329.20
950E-18	RB950E-18	£372.20
950E-20	RB950E-20	£372.20
950E-22	RB950E-22	£372.20
950E-24	RB950E-24	£372.20
950E-28	RB950E-28	£372.20

*NB. Rain Bird 900/950 Eagles are also available in 'S' Stop-o-matic or 'IC' Integrated Control. Please ask for details.*

### RAIN BIRD 900 EAGLE NOZZLES

Can be pre-installed on request (boxed quantities only).

Blue	No.44	RB213900-44	£7.80
Yellow	No.48	RB213900-48	£7.80
Orange	No.52	RB213900-52	£7.80
Green	No.56	RB213900-56	£7.80
Black	No.60	RB213900-60	£7.80
Red	No.64	RB213900-64	£7.80

### RAIN BIRD 950 EAGLE NOZZLES

Can be pre-installed on request (boxed quantities only).

White	No.18	RB213950-18	£7.80
Grey	No.20	RB213950-20	£7.80
Blue	No.22	RB213950-22	£7.80
Yellow	No.24	RB213950-24	£7.80
Orange	No.26	RB213950-26	£7.80
Green	No.28	RB213950-28	£7.80
Black	No.30	RB213950-30	£7.80
Brown	No.32	RB213950-32	£7.80

### RAIN BIRD ARTIFICIAL TURF COVER FOR 950 & 900

Specially designed for installation directly on to a Rain Bird 900 or 950 sprinkler.



Two piece artificial turf cover which offers additional protection and reduces the visual impact when installed on synthetic pitches.

RB99500	£161.70
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# Rain Bird XLR Water Jets

## RAIN BIRD XLR SERIES

With three models to choose from the XLR series of long range impacts allow you to modify your throw range and height. With a choice of nozzle plus variable trajectory your radius of throw can vary from 24 metres up to 60m (pressure & flow dependent)



Whilst typically used on artificial sports pitches the uniform distribution that these units deliver also make them ideal for dust suppression and agriculture.

- The adjustable trajectory option provides flexibility for adapting to wind, obstacles and power lines
- Full and Part Circle in a single unit 40°-360°
- 2" Flanged Inlet
- Nine available nozzles
- Self adjusting automatic brake system ensures constant rotation speed
- Dynamic Jet Breaker corrects uneven distribution that is common in lower pressure applications
- Operating pressure range at nozzle from 2 bar to 8 bar
- Trajectory range on adjustable model 15° to 45°
- Flow rates from 7.8 m³/h to 84.6 m³/h

**NEW !**

## RAIN BIRD XLR NOZZLES, TOOLS & ACCESSORIES



XLR 24° Trajectory	RBXLR24	£1063.30
XLR 44° Trajectory	RBXLR44	£1063.30
XLR Adjustable	RBXLRADJ	£1333.60

Jet Braker Kit	RBXLRJETKIT	£85.60
Brake Kit	RBXLRBRKKT	£85.60
Deflector Kit	RBXLRDEFKIT	£85.60
Nozzle Tool Kit	RBXLRNOZTL	£10.80
Nozzle No.12	RBXLRNOZ-12	£17.10
Nozzle No.14	RBXLRNOZ-14	£17.10
Nozzle No.16	RBXLRNOZ-16	£17.10
Nozzle No.18	RBXLRNOZ-18	£17.10
Nozzle No.20	RBXLRNOZ-20	£17.10
Nozzle No.22	RBXLRNOZ-22	£17.10
Nozzle No.24	RBXLRNOZ-24	£17.10
Nozzle No.26	RBXLRNOZ-26	£17.10
Nozzle No.28	RBXLRNOZ-28	£17.10

## XLR 24 Nozzle Throw Range | Fixed 24° Trajectory

Pressure bar	12 mm (0.47")		14 mm (0.55")		16 mm (0.63")		18 mm (0.71")		20 mm (0.79")		22 mm (0.87")		24 mm (0.94")		26 mm (1.02")		28 mm (1.10")	
	Flow m³/h	Radius m	Flow m³/h	Radius m	Flow m³/h	Radius m	Flow m³/h	Radius m	Flow m³/h	Radius m	Flow m³/h	Radius m	Flow m³/h	Radius m	Flow m³/h	Radius m	Flow m³/h	Radius m
2,0	7,8	24,2	10,6	26,5	13,8	28,9	17,5	29,1	21,7	29,4	26,1	29,8	31,1	30,2	36,7	30,6	42,3	30,9
2,5	8,7	26,8	11,9	29,0	15,4	31,3	19,5	32,5	24,2	33,8	29,2	34,4	34,7	35,1	41,0	35,8	47,3	36,5
3,0	9,6	29,4	13,0	31,6	16,9	33,7	21,4	35,9	26,5	38,2	31,9	39,1	38,0	39,9	44,9	41,0	51,8	42,1
3,5	10,3	31,2	14,1	33,3	18,2	35,5	23,1	37,9	28,7	40,4	34,5	41,6	41,1	42,9	48,5	44,4	56,0	45,9
4,0	11,1	32,9	15,1	35,1	19,5	37,3	24,7	39,9	30,7	42,5	36,9	44,2	43,9	45,8	51,8	47,8	59,8	49,7
4,5	11,7	33,9	16,0	36,2	20,7	38,6	26,2	41,2	32,5	43,9	39,1	45,7	46,6	47,6	55,0	49,8	63,5	52,0
5,0	12,4	34,8	16,8	37,3	21,8	39,8	27,6	42,5	34,3	45,2	41,2	47,3	49,1	49,3	58,0	51,8	66,9	54,3
5,5	13,0	35,7	17,7	38,4	22,9	41,1	29,0	43,8	35,9	46,5	43,2	48,7	51,5	50,9	60,8	53,5	70,2	56,2
6,0	13,5	36,6	18,4	39,5	23,9	42,4	30,3	45,0	37,5	47,7	45,2	50,1	53,8	52,5	63,5	55,3	73,3	58,1
6,5	14,1	37,4	19,2	40,4	24,9	43,3	31,5	46,0	39,1	48,7	47,0	51,2	56,0	53,7	66,1	56,5	76,3	59,3
7,0	14,6	38,2	19,9	41,2	25,8	44,2	32,7	46,9	40,6	49,7	48,8	52,3	58,1	54,9	68,6	57,7	79,2	60,6

The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. A lowered trajectory angle improves the irrigation efficiency in windy conditions. For every 3° drop of the trajectory angle the throw is reduced by approx. 3 to 4%.

## XLR 44 Nozzle Throw Range | Fixed 44° Trajectory

Pressure bar	12mm (0.47")			14mm (0.55")			16mm (0.63")			18mm (0.71")			20mm (0.79")			22mm (0.87")			24mm (0.94")			26 mm (1.02")			28 mm (1.10")		
	Flow m³/h	Radius m	Height m	Flow m³/h	Radius m	Height m	Flow m³/h	Radius m	Height m	Flow m³/h	Radius m	Height m	Flow m³/h	Radius m	Height m	Flow m³/h	Radius m	Height m	Flow m³/h	Radius m	Height m	Flow m³/h	Radius m	Height m	Flow m³/h	Radius m	Height m
3,0	9,6	26,1	11,9	13,0	28,5	12,1	16,9	31,0	12,3	21,4	33,5	12,5	26,5	35,9	12,7	31,9	37,2	12,9	38,0	38,5	13,1	44,9	39,7	13,3	51,8	41,0	13,4
3,5	10,3	27,7	13,1	14,1	30,3	13,4	18,2	33,0	13,7	23,1	35,6	14,0	28,7	38,2	14,4	34,5	39,7	14,6	41,1	41,1	14,9	48,5	42,6	15,1	56,0	44,0	15,3
4,0	11,1	29,3	14,3	15,1	32,1	14,7	19,5	34,9	15,1	24,7	37,8	15,6	30,7	40,6	16,0	36,9	42,2	16,3	43,9	43,8	16,6	51,8	45,5	17,0	59,8	47,1	17,3
4,5	11,7	30,4	15,1	16,0	33,4	15,6	20,7	36,3	16,1	26,2	39,3	16,7	32,5	42,2	17,2	39,1	43,9	17,6	46,6	45,6	18,1	55,0	47,3	18,5	63,5	49,0	18,9
5,0	12,4	31,5	15,9	16,8	34,6	16,5	21,8	37,7	17,1	27,6	40,8	17,8	34,3	43,9	18,4	41,2	45,7	19,0	49,1	47,4	19,5	58,0	49,2	20,0	66,9	51,0	20,5
5,5	13,0	32,4	16,4	17,7	35,6	17,2	22,9	38,7	17,9	29,0	41,9	18,6	35,9	45,1	19,4	43,2	46,9	20,0	51,5	48,7	20,6	60,8	50,5	21,2	70,2	52,3	21,8
6,0	13,5	33,3	17,0	18,4	36,5	17,8	23,9	39,8	18,7	30,3	43,0	19,5	37,5	46,3	20,3	45,2	48,1	21,0	53,8	50,0	21,7	63,5	51,8	22,3	73,3	53,6	23,0
6,5	14,1	33,9	17,4	19,2	37,2	18,3	24,9	40,5	19,2	31,5	43,8	20,1	39,1	47,1	21,0	47,0	49,0	21,8	56,0	50,9	22,5	66,1	52,7	23,3	76,3	54,6	24,1
7,0	14,6	34,5	17,9	19,9	37,8	18,8	25,8	41,2	19,8	32,7	44,6	20,7	40,6	48,0	21,7	48,8	49,9	22,5	58,1	51,8	23,4	68,6	53,7	24,2	79,2	55,6	25,1
7,5	15,1	34,8	18,1	20,6	38,2	19,1	26,7	41,7	20,2	33,8	45,1	21,2	42,0	48,5	22,2	50,5	50,4	23,1	60,1	52,4	24,0	71,0	54,3	24,9	82,0	56,3	25,8
8,0	15,6	35,2	18,4	21,3	38,7	19,5	27,6	42,1	20,6	34,9	45,5	21,6	43,4	49,0	22,7	52,2	51,0	23,6	62,1	53,0	24,6	73,3	55,0	25,5	84,6	57,0	26,4

The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. Radius = radius of throw in meters. Nozzle at 1,5 meters above ground level. Height = maximum stream height in meters above nozzle.

## Sprinkler Components



### RAIN BIRD SPX-FLEX SWING PIPE

Used in conjunction with SB barb fittings as a 'make your own' flexible swing joint assembly. Make installations easier plus protect pop up rotors and sprinklers by absorbing impacts caused by mowers and pedestrians.

#### FEATURES

- Unique material offers excellent flexibility and kink resistance
- Designed to withstand high pressures and pressure spikes
- Easy-to-install: change the height and lateral position of spray/rotor without modifying the installation
- Reduces the number of fittings on lateral pipe work by allowing the easy installation of sprinklers into corners and tight areas.
- Fast connection with 'push and thread' SB series fittings
- Ideal for 'first fix' installation by leaving swing pipe tail above ground whilst landscaping is completed, prior to fitting pop ups.
- 15% more flexible than nearest competitor for faster & easier installations



Installation on Riser

#### SPECIFICATIONS

Inside diameter : 12.5 mm

Operating water pressure : Up to 5.5 bar



Installation on SPX Flex

SPX-100 (30m coil)

RBSPXFLEX-030

£28.30

### RAIN BIRD SB SERIES SPIRAL BARB FITTINGS

For use in conjunction with SP-100 swing pipe to create your own bespoke flexible swing joint assembly.

#### FEATURES

- 5 models available
- Design permits twist in and screw insertion without tools, glue or clamps.
- Operating water pressure up to 5.5 bar



SBE-050	1/2" male x barb elbow
SBE-075	3/4" male x barb elbow
SBA-050	1/2" male x barb adapter
SB-TEE	barb x barb x barb tee
SB-CPLG	barb x barb coupling

RBSBE-050	£0.30
RBSBE-075	£0.30
RBSBA-050	£0.30
RBSB-TEE	£0.30
RBSB-CPLG	£0.30

Each or Bags of 50 (price shown for individual item)

### MULTIRISERS

For connecting 1800 series sprinklers to saddle joint. Not recommended for turf areas high pedestrian or mower traffic. Sectional construction allows cutting at required height. (Not made by Rain Bird).



1/2" x 1/2" BSP x 150mm
1/2" x 3/4" BSP x 150mm

RISERMULTI-A	£0.91
RISERMULTI-B	£1.10

### THREADED BSP RISER PIPES

Threaded PVC risers for multiple applications.

LENGTH
150mm
300mm
500mm
150mm
300mm
500mm

SIZE
1/2"
1/2"
1/2"
3/4"
3/4"
3/4"

RISER015150	£2.31
RISER015300	£2.97
RISER015500	£3.90
RISER020150	£2.86
RISER020300	£3.43
RISER020500	£4.20



# Sprinkler Components

Rain Bird Eagle Rotors (post 2011) have ACME inlet threads

## RAIN BIRD SWING JOINTS

Fabricated in PVC, they are used to install sprinklers or quick coupling valves. Max working pressure 14 bar. Fully assembled and with a 360° full circle swing. Allows for easy raising or lowering of sprinklers.

BSP MODELS:

¾" BSP x 30cm lay length swing joint extra inlet elbow	DURASJ12075EE	£19.75
1" BSP x 30cm lay length swing joint	RBSJ-12-100-22	£32.80
1" BSP x 30cm lay length swing joint with extra inlet elbow	RBSJ-12-100-22-E	£32.80

BSP x ACME MODELS:

1" BSP x 1" ACME 30cm swing joint	RBSJA-12-100-23	£29.70
1" BSP x 1" ACME 30cm swing joint with extra inlet elbow	RBSJA-12-100-23-E	£31.50
1½" BSP x 1¼" ACME 30cm swing joint	RBSJA-12-125-23	£33.30
1½" BSP x 1¼" ACME 30cm swing joint with extra inlet elbow	RBSJA-12-125-23-E	£40.50
1½" BSP x 1½" ACME 30cm swing joint	RBSJA-12-150-23	£40.50
1½" BSP x 1½" ACME 30cm swing joint with extra inlet elbow	RBSJA-12-150-23-E	£45.10

When fitting an ACME Rotor on a existing BSP swing joint you may need one of the following items.

1" ACME	to 1" BSP Adaptor Bush	RBSJA-ADAPT100	£9.60
1¼" ACME	to 1¼" BSP Adaptor Bush	RBSJA-ADAPT125	£10.40
1½" ACME	to 1½" BSP Adaptor Bush	RBSJA-ADAPT150	£10.30
1¼" ACME	to 1" BSP Adaptor Bush	RBSJA-ADAPT12510	£9.80
1½" ACME	to 1" BSP Adaptor Bush	RBSJA-ADAPT15010	£13.13
1¼" ACME	to 1½" BSP Adaptor Bush	RBSJA-ADAPT15012	£8.61

## SADDLE CLAMPS

Single outlet saddle - max 10 bar

Unit clamps around underground pipe.

When secure, a hole is drilled through the female outlet

(larger sizes in stock and available on request)

25mm - ½"	SADD-25-015	£1.08
25mm - ¾"	SADD-25-020	£1.08
32mm - ½"	SADD-32-015	£1.36
32mm - ¾"	SADD-32-020	£1.36
32mm - 1"	SADD-32-025	£0.72
40mm - ½"	SADD-40-015	£1.58
40mm - ¾"	SADD-40-020	£1.58
40mm - 1"	SADD-40-025	£2.06
50mm - ¾"	SADD-50-020	£2.08
50mm - 1"	SADD-50-025	£2.08
50mm - 1¼"	SADD-50-032	£2.08

## PLASSON PREMIUM SADDLES

Single outlet saddle—max 12 bar

Unit clamps around underground pipe, secured with

Stainless Steel nuts & bolts.

When secure, a hole is drilled through the female outlet

(larger sizes in stock and available on request)

20mm - ½"	PLAS16076020015	£4.65
25mm - ½"	PLAS16076025015	£5.43
25mm - ¾"	PLAS16076025020	£5.43
32mm - ½"	PLAS16076032015	£5.99
32mm - ¾"	PLAS16076032020	£5.99
32mm - 1"	PLAS16076032025	£5.99
40mm - ½"	PLAS16076040015	£6.78
40mm - ¾"	PLAS16076040020	£6.78
40mm - 1"	PLAS16076040025	£6.78
50mm - ¾"	PLAS16076050020	£7.57
50mm - 1"	PLAS16076050025	£7.57
50mm - 1¼"	PLAS16076050032	£7.57

## BLAZING SADDLE CLAMPS

Single outlet self tapping saddle for rapid and simple installations. Self clamping mechanism locks around the pipe then simply thread in the handheld tapping insert which makes its own hole and provides a ¾" female BSP thread. No mess, no tools, no wasted time.

25mm-¾"	SADD-25-020SLFTAP	£2.28
32mm-¾"	SADD-32-020SLFTAP	£2.30
40mm-¾"	SADD-40-020SLFTAP	£2.34

Fast & Easy !!



## Rain Bird Solenoid Valves



### RAIN BIRD XCZ CONTROL ZONE START-UP KIT

Rain Bird Control Zone Kits provide all of the components necessary to control flow, pressure and filtration for low volume irrigation zone.

- Includes a ¾" Low Flow Valve or 1" DV Valve and Pressure Regulating RBY filter (model dependant)
- Available with 9v latching or 24v solenoid coils
- Pre-assembled for faster installation
- Flow rates 0.05 - 1.14m³/h for the Low Flow valve and 0.68 - 3.41m³/h for the DV valve
- Pressure ratings of 2.0 bar on ¾" and 2.8 bar on 1" models

XCZ-075 PRF	RBXCZ075PRF	£34.80
XCZ-075 PRF 9V	RBXCZ075PRF9V	£48.60
XCZ-100 PRF	RBXCZ100PRF	£35.50
XCZ-100 PRF 9V	RBXCZ100PRF9V	£51.80



### RAIN BIRD LOW FLOW VALVE

Rain Bird Low Flow Valve is specially designed for drip & low volume irrigation systems. Designed to handle zones with small flow requirements.

- All the reliability of the DV Series valve, coupled with a unique diaphragm design that allows particles to pass through at very low flows
- Filter can be installed downstream of the valve since to remove unwanted particles from the irrigation system
- Available with 9v latching or 24v solenoid coils
- Flow rate 0.05 - 1.14m³/h
- Pressure rating 1.0 - 10.3 bar

RB1LFV075	RB1LFV075	£23.40
LFV-075LFV-075-9V	RB1LFV075-9V	£37.60



### RAIN BIRD HIGH VALUE VALVE

The Rain Bird High Value Valve (HV) provides a reliable and affordable solution for residential irrigation systems.

- Eccentric diaphragm for smooth closing
- Buna-N diaphragm with self cleaning 90 mesh pilot water filter and stainless steel spring
- Captive multi-drive screws for easy servicing
- Available with 9v latching or 24v solenoid coils
- 1" female BSP threads
- Flow rate 0.23 - 6.81 m³/h
- Pressure rating 1.0 - 10.4 bar

HV Female BSP	RB100-HV	£16.30
HV Female BSP Flow Control	RB100-HVF	£18.80

### RAIN BIRD DV & DVF SERIES VALVES

The Rain Bird DV series valves provides versatility, reliability and are ideally suited for residential and light commercial applications

- Double-filtered pilot flow: diaphragm with self-cleaning filter in addition to solenoid filter
- Manual ON/OFF control with turn of solenoid. Spray-free internal bleed
- External bleed screw
- Stainless steel Phillips head screws
- Built-in Flow Control mechanism (optional)
- Available with 9v latching or 24v solenoid coils
- ¾" and 1" thread sizes with male (1" version only) or female BSP threads
- Flow rates 0.23 - 4.5 m³/h for ¾" and 0.24 - 9.0 m³/h for 1"
- Pressure rating 1.0 - 10.4 bar

DV-075	¾" BSP Female	RB075-DV	£24.60
DV-100	1" BSP Female	RB100-DV	£24.60
DV-100	1" BSP Female 9v	RB100-DV9V	£39.50
DV-100	1" BSP Female Flow Control	RB100-DVF	£32.20
DV-100	1" BSP Male	RB100-DV-MM	£24.60
DV-100	1" BSP Male 9v	RB100-DV-MM-9V	£39.50

## Rain Bird Solenoid Valves

### RAIN BIRD PGA VALVES

The Rain Bird PGA series valves are specifically designed for use with multi-core and decoder based irrigation control systems. Suitable for high-end residential, commercial, sports and golf course irrigation systems.

- Double-filtered pilot flow prevents clogging solenoid ports
- Manual ON/OFF control with turn of solenoid. Spray-free internal bleed
- Slow closing to prevent water hammer and subsequent system damage
- Stainless steel Phillips head screws
- Built-in Flow Control mechanism
- Pressure Regulating Stem Dial (PRS-Dial) modules to adjust outlet pressure of the valve (optional)
- Available with 9v latching or 24v solenoid coils
- 1", 1½" and 2" sizes available with female BSP threads
- Flow rates: 1" is 1.2 - 9.0 m³/h, 1½" is 6.0 - 21.0 m³/h and 2" is 9.0 - 34 m³/h
- Pressure rating 1.0 - 10.4 bar

**NOW WITH A  
5 YEAR  
WARRANTY**

PGA-100 1" BSP Female	RB100-PGA	<b>£40.50</b>
PGA-100 1" BSP Female 9v	RB100-PGA9V	<b>£61.00</b>
PGA-150 1½" BSP Female	RB150-PGA	<b>£67.60</b>
PGA-150 1½" BSP Female 9v	RB150-PGA9V	<b>£86.50</b>
PGA-200 2" BSP Female	RB200-PGA	<b>£91.90</b>
PGA-200 2" BSP Female 9v	RB200-PGA9V	<b>£104.50</b>

### RAIN BIRD PEB VALVES

The Rain Bird PEB series valves are specifically designed to be the most durable valve possible. Suitable for high-end residential, commercial, sports and golf course irrigation systems.

- Constructed from glass-filled nylon with a fabric re-enforced diaphragm for high reliability and long life
- Manual ON/OFF control with turn of solenoid. Spray-free internal bleed
- Slow closing to prevent water hammer and subsequent system damage
- Built-in Flow Control mechanism
- Pressure Regulating Stem Dial (PRS-Dial) modules to adjust outlet pressure of the valve (optional)
- Scrubber device to clean stainless steel screen (optional)
- 1", 1½" and 2" sizes available with female BSP threads
- Flow rates: 1" is 1.2 - 9.0 m³/h, 1½" is 6.0 - 33.0 m³/h and 2" is 9.0 - 45 m³/h
- Pressure rating 1.4 - 13.8 bar

PEB-100 1" BSP Female	RB100-PEB	<b>£73.90</b>
PEB-150 1½" BSP Female	RB150-PEB	<b>£98.20</b>
PEB-200 2" BSP Female	RB200-PEB	<b>£142.40</b>

### RAIN BIRD PRS-DIAL

The Rain Bird PRS-Dial is design for use with the PGA and PEB series commercial solenoid valves. Accurate and easy adjustable pressure regulation.

PRS-Dial 1.0 to 6.9 bar	RBPRS-DIAL	<b>£70.30</b>
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### RAIN BIRD 100 SERIES 3" HIGH PERFORMANCE SOLENOID VALVE

The Rain Bird high performance plastic hydraulic control valves with solenoid control combines simple and reliable construction with superior performance.

- Durable industrial construction using glass filled nylon
- Requires low actuation pressure
- Suitable for horizontal and vertical installation
- 3" Female threaded with articulated flange connections DN80
- 24 VAC Solenoid
- Flow rates 10.0 - 80.0 m³/h
- Operating pressure range 0.7 - 10.0 bar

**NEW !**

100 series 3" BSP Female	RB310023BER	<b>£317.30</b>
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## Rain Bird HDPE Valve Boxes

### RAIN BIRD HDPE SERIES VALVE BOXES

The Rain Bird HDPE series (High Density Polyethylene) valve boxes are ideal for all residential, commercial, municipal, athletic and golf course installation.

The box design allows for easy access to underground water meters, air relief valves, drain valves, electric and manual valves, decoders, cable connections to name but a few. These valve boxes are fast and easy to install saving time and money in installation costs.

- Unique bolt hole knock-out design in lid keeps insects and pests out of the box
- Shovel access on body allowing for easy lid removal
- Pre-cut pipe knock-outs for easy and fast installation, with retainers to securely hold knock outs above the pipe keeping dirt out during back fill
- Bevelled lid edges help prevent damage from gardening machinery
- Dark green lid cover for discreet installations
- Interlocking bottoms for adding extensions to allow for deep installations
- Wide flange base and corrugated structure providing superior box strength
- Made from 100% recycled materials
- Black lids available by special order.

### RAIN BIRD 7" ROUND

The Rain Bird HDPE 7" round valve box. Dimensions: Height 229mm, Diameter (top) 180mm, Diameter (bottom) 250mm.



7" Round Valve Box	RBVBH708	<b>£11.30</b>
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### RAIN BIRD 10" ROUND

The Rain Bird HDPE 10" round valve box. Dimensions: Height 254mm, Diameter (top) 270mm, Diameter (bottom) 350mm.



10" Round Valve Box	RBVBH910	<b>£16.20</b>
10" Spare Lid	RBVBH910C	<b>£11.10</b>

### RAIN BIRD STANDARD RECTANGULAR

The Rain Bird HDPE standard rectangular valve box. Dimensions: Height 307mm, Length (bottom) 590mm, Width (bottom) 490mm.



Standard Valve Box	RBVBH1419	<b>£28.40</b>
Standard Spare Lid	RBVBH1419C	<b>£15.90</b>

### RAIN BIRD JUMBO RECTANGULAR

The Rain Bird HDPE jumbo rectangular valve box. Dimensions: Height 307mm, Length (bottom) 701mm, Width (bottom) 533mm.



Jumbo Valve Box	RBVBH1220	<b>£45.30</b>
Jumbo Spare Lid	RBVBH1220C	<b>£27.90</b>

### RAIN BIRD STANDARD VALVE BOX EXTENSION

The Rain Bird HDPE standard rectangular valve box extension. Design to fit on top of the valve box. Dimensions: Height 171mm, Length (bottom) 508mm, Width (bottom) 375mm.



Standard Extension	RBVBH1419E	<b>£23.40</b>
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### RAIN BIRD JUMBO VALVE BOX EXTENSION

The Rain Bird HDPE standard rectangular valve box extension. Design to fit on top of the valve box. Dimensions: Height 171mm, Length (bottom) 620mm, Width (bottom) 533mm.



Jumbo Extension	RBVBH1220E	<b>£34.60</b>
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## Carson Brooks Valve Boxes & Rain Bird Hydrants

### CARSON BROOKS VALVE BOXES

The Carson Brooks box design allows for easy access to underground meters, air relief valves, drain valves, electric and manual valves, decoders, cable connections to name but a few. Previously distributed by Rain Bird & Toro so installed at thousands of sites throughout Europe.

- Constructed from high density polyethylene structural foam
- Factory pierced slots for pipe, additional holes can be cut with a hole-saw or other cutting device



#### CARSON BROOKS 6" ROUND

The Carson Brooks 6" round valve box. Dimensions: Height 233mm, Diameter (top) 152mm, Diameter (bottom) 200mm.

6" Round Valve Box

CBVB708

£5.49



#### CARSON BROOKS 10" ROUND

The Carson Brooks 10" round valve box. Dimensions: Height 265mm, Diameter (top) 250mm, Diameter (bottom) 335mm.

10" Round Valve Box  
10" Cover

CBVB910

£15.46

CBVB910C

£5.71



#### CARSON BROOKS STANDARD RECTANGULAR

The Carson Brooks standard rectangular valve box. Dimensions: Height 310mm, Length (bottom) 500mm, Width (bottom) 360mm.

Standard Valve Box  
Standard Cover

CBVB1419

£33.82

CBVB1419C

£13.80



#### CARSON BROOKS JUMBO RECTANGULAR

The Carson Brooks jumbo rectangular valve box. Dimensions: Height 315mm, Length (bottom) 610mm, Width (bottom) 430mm.

Jumbo Valve Box  
Jumbo Cover

CBVB1220

£46.40

CBVB1220C

£20.52



#### CARSON BROOKS VALVE BOX EXTENSION

The Carson Brooks valve box extensions, for standard and jumbo boxes. Design to fit on top of the valve box. Standard Dimensions: Height 170mm, Length (bottom) 435mm, Width (bottom) 305mm. Jumbo Dimensions: Height 180mm, Length (bottom) 610mm, Width (bottom) 440mm.

Standard Extension  
Jumbo Extension

CBVB1419E

£23.13

CBVB1220E

£33.34

### QUICK COUPLING HYDRANTS & ACCESSORIES

Rain Bird & Hunter Quick Coupling underground hydrants ideal for connecting to an underground pressurized irrigation mainline to provide secure tamper proof manual watering.

#### RAIN BIRD PLASTIC QUICK COUPLING HYDRANT

Plastic hydrant kit is ideal for residential use. Plastic Type 3/4" BSP Male threaded Inlet, Flow up to 5m³/hr, max pressure 6 bar

3/4" Valve

RBQCP020-P33

£15.00

3/4" Key

RBQCP020-P33DK

£3.10

3/4" Swivel Elbow

RBQCP020-PSHO

£4.00

#### BRASS QUICK COUPLING HYDRANT

Brass hydrant kit is ideal for commercial, sports or golf course use. Brass Type 3/4" and 1" BSP Female threaded Inlet, Flow of up to 4m³/h for 3/4" and 16m³/h for 1" max pressure 8.6 bar. 1" version has a lockable cover.

3/4" Valve

HUNVALQC020

£65.52

3/4" Swivel Elbow

HUNVALQC020EL

£65.52

3/4" Key

HUNVALQC020KY

£45.68

1" Valve

RBQCB025-5LRC

£114.40

1" Swivel Elbow

RBQCB025-SH2

£145.60

1" Key

RBQCB025-55K1

£108.20

1" Cover Key

RBQCB025-2049

£18.20

#### QUICK COUPLING ANCHOR

Underhill steel 'Claw' quick coupling anchor. Bolts around base of hydrant body to prevent rotation of assembly.

3/4" & 1" Claw

CLAW020025

£47.88

**NEW !**

## Dura PVC Manifold Fittings

### VALVE BOX FITTINGS WITH SWIVEL NUTS

Swivel nut fittings simplify the installation (assembly and disassembly) of valves within a chamber. They produce a tight assembly by the aid of a sealing washer within the nut, without the need to use PTFE sealing tape, 10 Bar Rated. Provide clean, tidy, professional and rapid installation.



#### ONE WAY MANIFOLD

Swivel female x swivel female x male BSP

1" x 1" x 1"

DURAMAN01025 **£6.00**



#### TWO WAY MANIFOLD

3 x Swivel female with 1 x male BSP

1"

DURAMAN02025 **£11.76**



#### THREE WAY MANIFOLD

4 x Swivel female with 1 x male BSP

1"

DURAMAN03025 **£17.66**



#### FOUR WAY MANIFOLD

5 x Swivel female with 1 x male BSP

1"

DURAMAN04025 **£23.42**



#### COUPLING FEMALE/FEMALE

Swivel female BSP x swivel female BSP

1" x 1"

DURACOUFFF025 **£4.25**



#### COUPLING FEMALE/MALE

Swivel female BSP x male BSP

1" x 1"

DURACOUPMF025 **£3.78**



#### NIPPLE

Male BSP x male BSP

To convert from 1" female BSP valve to male 1" BSP

1" x 1"

DURANIP025025 **£1.39**



#### NIPPLE

Male BSP x male BSP

To convert from 3/4" female BSP valve to male 1" BSP

1" x 3/4"

DURANIP025020 **£1.55**



#### END CAP

Female BSP Thread

1"

DURACAP025 **£1.32**



#### ELBOW MALE/FEMALE

Male x swivel female

1" x 1"

DURAEIBMFF025 **£5.13**



#### ELBOW FEMALE/FEMALE

Swivel female x swivel female

1" x 1"

DURAELBFF025 **£5.67**



#### CROSS

Male x swivel female x swivel female x swivel female

1"

DURACROSS025 **£8.01**

## Rain Bird 1300 (Male) PVC Manifold Fittings

### RAIN BIRD 1300 SERIES VALVE BOX FITTINGS

Telescopic swivel nut fittings simplify the installation (assembly and disassembly) of valves within a chamber. They produce a tight assembly by the aid of a sealing washer within the nut, without the need to use PTFE sealing tape, 10 Bar Rated.



#### 1300 SERIES TEE PIECE

Telescopic male x swivel female x male BSP

1" x 1" x 1"

RBMANM1301010 **£5.20**



Swivel female x telescopic male x telescopic male BSP

1" x 1" x 1"

RBMANM1303010 **£7.40**



#### 1300 SERIES TWO WAY MANIFOLD

Swivel female x 2 telescopic male x male BSP

1"

RBMANM1301210 **£10.20**



#### 1300 SERIES THREE WAY MANIFOLD

Swivel female x 3 telescopic male x male BSP

1"

RBMANM1301310 **£15.20**



#### 1300 SERIES FOUR WAY MANIFOLD

Swivel female x 4 telescopic male x male BSP

1"

RBMANM1301410 **£20.40**



#### 1300 SERIES SOCKET

Female BSP x female BSP

To convert from 1" male BSP valve to female 1" BSP

1" x 1"

RBMANM1330010 **£1.30**



Female BSP x female BSP

To convert from 3/4" male BSP valve to female 1" BSP

1" x 3/4"

RBMANM1330131 **£1.30**



#### 1300 SERIES ELBOW MALE/MALE

Male x telescopic male

1" x 1"

RBMANM1306010 **£4.40**



#### 1300 SERIES ELBOW FEMALE/MALE

Female x telescopic male

1" x 1"

RBMANM1312010 **£5.00**



#### 1300 SERIES CROSS

Male x telescopic male x telescopic male x female

1"

RBMANM1320010 **£7.00**



#### 1300 SERIES CAP

Female cap BSP

1"

RBMANM1348010 **£1.10**

## Rain Bird 1200 (Female) PVC Manifold Fittings

### RAIN BIRD 1200 SERIES VALVE BOX FITTINGS

Telescopic swivel nut fittings simplify the installation (assembly and disassembly) of valves within a chamber. They produce a tight assembly by the aid of a sealing washer within the nut, without the need to use PTFE sealing tape, 10 Bar Rated.

	<b>1200 SERIES TEE PIECE</b> Swivel female x swivel female x male BSP	1" x 1" x 1"	RBMANF1201010	<b>£4.98</b>
	Swivel female x swivel female x swivel female BSP	1" x 1" x 1"	RBMANF1203010	<b>£7.01</b>
	<b>1200 SERIES TWO WAY MANIFOLD</b> 3 x Swivel female with 1 x male BSP	1"	RBMANF1201210	<b>£9.50</b>
	<b>1200 SERIES THREE WAY MANIFOLD</b> 4 x Swivel female with 1 x male BSP	1"	RBMANF1201310	<b>£14.21</b>
	<b>1200 SERIES FOUR WAY MANIFOLD</b> 5 x Swivel female with 1 x male BSP	1"	RBMANF1201410	<b>£18.98</b>
	<b>1200 SERIES NIPPLE</b> Male BSP x male BSP To convert from 1" female BSP valve to male 1" BSP	1" x 1"	RBMANF1282010	<b>£1.24</b>
	Male BSP x male BSP To convert from 3/4" female BSP valve to male 1" BSP	1" x 3/4"	RBMANF1282131	<b>£1.41</b>
	<b>1200 SERIES ELBOW MALE/FEMALE</b> Male x swivel female	1" x 1"	RBMANF1206010	<b>£4.15</b>
	<b>1200 SERIES ELBOW FEMALE/FEMALE</b> Swivel female x swivel female	1" x 1"	RBMANF1212010	<b>£4.67</b>
	<b>1200 SERIES CROSS</b> Male x swivel female x swivel female x swivel female	1"	RBMANF1220010	<b>£6.54</b>
	<b>1200 SERIES STRAIGHT COUPLING</b> Male x female straight coupling BSP	1" x 1"	RBMANF1239131	<b>£1.41</b>

## Tap Mounted Timers



### RAIN BIRD

- Electronic water timer with LCD and function keys
- Up to 2 start times per day
- Duration of watering time: 1 minute to 6 hours
- Manual start of programmed watering duration
- Powered by 2 no. 1.5V alkaline battery
- Operating pressure 1.0 to 6 bar
- 3/4" female threaded inlet and 3/4" male threaded outlet

RBZA84TMR **£49.20**



### GALCONETTE

- Electronic water timer with LCD and function keys
- Up to 4 start times per day
- Duration of watering time: 1 minute to 12 hours
- Manual start of programmed watering duration
- Powered by 1 no. 9V alkaline battery
- Operating pressure 1.0 to 10 bar
- 3/4" female threaded inlet and 3/4" male threaded outlet

GALCONETTE **£44.88**



### GALCONETTE BLUETOOTH

- Electronic water timer with LCD and function keys
- Program and manual operation from your smartphone or tablet
- Download FOC Galcon App
- Range of 5 - 30metres
- Up to 4 start times per day
- Duration of watering time: 1 minute to 12 hours
- Manual start of programmed watering duration
- Powered by 1 no. 9V alkaline battery
- Operating pressure 1.0 to 10 bar
- 3/4" female threaded inlet and 3/4" male threaded outlet

GALCONBT9001 **£86.02**



### CLABER AQUAUNO VIDEO-2 PLUS

- Electronic water timer with LCD and 3 function keys
- Up to 2 start times per day
- Duration of watering time: 1 minute to 23 hours 59 minutes
- Weekly watering cycles can be programmed
- Powered by 1 no. 9V alkaline battery
- Operating pressure 0.1 to 12 bar
- 3/4" female threaded inlet and 3/4" male threaded outlet

CLABAQVID2PLUS **£46.52**



### CLABER AQUADUE DUPLO—TWO ZONE

- Electronic water timer with LCD and 3 function keys
- Connect 2 different irrigation zones
- Up to 3 start times per day
- Duration of watering time: 1 minute to 23 hours 59 minutes
- Weekly watering cycles can be programmed
- Powered by 1 no. 9V alkaline battery
- Operating pressure 0.1 to 12 bar
- 3/4" female threaded inlet and two No. 1/2" male threaded outlets

CLABAQDUPLO **£77.71**



### CLABER AQUADUE RAIN SENSOR

Fits to both the Aquauno Video 2 Plus and Duplo Controllers to delay irrigation during rainfall.

CLABAQRAINSENS **£26.93**



### BATTERIES

We are able to supply batteries to fit all our controllers please order:

Duracell size AA (4 pack)  
Varta size P3 (9 volt Single)

RBBATTAA **£3.50**  
RBBAT9AL **£2.20**



## Rain Bird Battery Powered Controllers



### RAIN BIRD WPX SERIES

The Rain Bird WPX Series is a battery powered irrigation controller. This allows fully automated irrigation in locations without a mains power supply.

- Operates with 1 or 2 top grade 9v alkaline batteries (model dependant)
- IP68 rated meaning 100% waterproof and resistant to humid and harsh environments and can be installed in underground valve box.
- Large LCD display with easy-to-understand programming icons
- Water budgeting function adjusts watering time from 0% - 200%
- Manual station or cycle start capacity
- ON/OFF key permits rainy weather shutoff
- Programmable rain delay enables system to stay off for a specified period (1 to 9 days) with auto restart
- Can be connected to a rain sensor device and pump start or master valve
- Station timing 1 minute - 4 hours
- 3 programs with the option of up to 8 start times
- Program schedule 1 - 7 day cycle
- Maximum distance between controller and valve 15m.

WPX1 - 1 station  
WPX2 - 2 station  
WPX4 - 4 station  
WPX6 - 6 station  
WPX1 - 1" DV Kit  
WPX1 - 1" SOL  
WPX1 - Mount

RBWPX-1 £85.80  
RBWPX-2 £147.80  
RBWPX-4 £161.30  
RBWPX-6 £182.00  
RBWPX100DVKIT £109.90  
RBWPX-1-SOL £100.90  
RBWPX-WM £13.20

**NEW !**



### RAIN BIRD TBOS CONTROL SYSTEM

The Rain Bird TBOS-II Control System is a 9v battery powered irrigation control system. This allows fully automated irrigation in locations without a mains power supply, also no signal cable is required. Each control module works individually and you can have an almost unlimited number of them installed on one system.

Modules are available as 1,2,4 and 6 station units and can be ordered as Standard **OR** Bluetooth enabled. Therefore they can now be programmed in three different ways, Infrared, Radio and Bluetooth. The first two options require the handheld transmitter and for Bluetooth just the free App on your smart phone.

To utilise the radio connection each standard module needs to be fitted with a radio interface unit. Please note that if you wish to use Bluetooth you have to order the Bluetooth modules.

- 3 programs each with the option of up to 8 start times
- Station timing 1 minute - 12 hours
- All modules require valves fitted with 9v latching coils
- Modules are IP68 so 100% waterproof for underground installation
- Each multi zone module includes connection for Rain Sensor and Master Valve
- LCD display with easy to understand icons, also shows battery life of the transmitter and control module

Field Transmitter  
Radio Interface  
1 Station Standard Module  
2 Station Standard Module  
4 Station Standard Module  
6 Station Standard Module

RBTCB-F48220 £356.10  
RBTCB-F48230 £144.70  
RBTBM-F48221 £131.00  
RBTBM-F48222 £190.00  
RBTBM-F48224 £220.00  
RBTBM-F48226 £250.80

1 Station Bluetooth Module  
2 Station Bluetooth Module  
4 Station Bluetooth Module  
6 Station Bluetooth Module

RBTCBT-F48501 £TBC  
RBTCBT-F48502 £TBC  
RBTCBT-F48504 £TBC  
RBTCBT-F48506 £TBC

**NOW WITH  
BLUETOOTH  
OPTION !**



### RAIN BIRD LATCHING SOLENOID

Rain Bird Latching Solenoid Coil. For use with 9v controllers (WP Series and TBOS Controllers). Only compatible with Rain Bird Solenoid valves, models JTV, DV, PGA and PEB.

9v Latching Coil

RBTCB-K80920 £29.30

### BATTERIES

The Rain Bird WPX Series and TBOS Control System use 9v batteries.

RBBAT9AL £2.20



## Rain Bird Mains Powered Controllers

### RAIN BIRD ESP-RZXW CONTROLLER - 4 to 8 stations

The Rain Bird ESP-RZX Series WiFi compatible irrigation controller is a user friendly and powerful device. Designed to automatically irrigate residential systems with a comprehensive range of features but that still ensures easy and straight forward programming. Indoor and outdoor models available.



- Large LCD display with easy to navigate user interface
- Seasonal adjust from -90% to +100%
- Manual station start for all or a single station
- Station timing 0 minutes to 199 minutes
- Program schedule 1 - 7 day cycle
- Single program with up to 6 user defined start times
- Can be connected to a rain sensing device and pump start or master valve
- Features 'Contractor Rapid Programming' and 'Copy Previous Zone' for faster installation
- Weather sensor bypass entire irrigation cycle or specific stations
- Non-volatile memory maintains program during power outage, also include 2 x AAA batteries for time and date back up
- Use a LNK module for remote access & control using your phone via WiFi

WiFi Module available  
NOW!  
See Page 53

ESP-RZXW4 Indoor	RBRZXWI04	£76.40
ESP-RZXW6 Indoor	RBRZXWI06	£86.20
ESP-RZXW8 Indoor	RBRZXWI08	£101.80
ESP-RZXW4 Outdoor	RBRZXWO04	£120.10
ESP-RZXW6 Outdoor	RBRZXWO06	£138.30
ESP-RZXW8 Outdoor	RBRZXWO08	£168.40
WiFi LNK Module	RBLNKWIFI	£109.30

### RAIN BIRD ESP-MEW MODULAR CONTROLLER - 4 to 22 Stations

The Rain Bird ESP-ME WiFi compatible modular series controller combines powerful features with straight forward programming making it ideal for residential and light commercial landscapes. Outdoor wall mount with an internal transformer.



- 4 station base model expandable up to 22 stations (3 or 6 station expansion modules)
- Water budgeting function adjusts watering times from 0% to 200%
- Manual station start for a single zone
- Station timing 0 minutes to 6 hours
- Program schedule 1 - 7 day cycle with permanent day off option
- 4 programs with up to 6 programmable start times
- Can connect a rain sensing device and pump start relay or master valve
- Programmable Master Valve/Pump start circuit for each station
- Rain Sensor bypass by station
- Contractor Default function saves a customized default program
- Non-volatile memory maintains the program during power outage
- Diagnostic self-setting circuit breaker skips a 'shorted' station and continues irrigation cycle
- Enhanced Diagnostic Feedback function alerts user to programming errors or faults preventing a station from running
- Use a LNK module for remote access & control using your phone via WiFi

WiFi Module available  
NOW!

ESP-MEW Controller	RBESP-MEW04	£190.90
Module 3 Station	RBESP-MESM3	£37.10
Module 6 Station	RBESP-MESM6	£66.80
WiFi LNK Module	RBLNKWIFI	£109.30

### RAIN BIRD ESP-ME FRONT PANEL UPGRADE TO WiFi

Bring your existing installations up to date with this simple retrofit front panel for pre WiFi enabled ME controllers (manufacturing date of before November 2016).



#### FEATURES:

- Suitable for all ESP-ME manufactured before Nov 2016
- Simple changeover in seconds
- Plug in a LNK module (not included) for remote access & control

RBESP-MEWPANEL £87.00

NEW !

## Rain Bird WiFi Module for ESP ME & RZX Controllers

### RAIN BIRD WiFi LNK Module

The New Rain Bird LNK WiFi Module allows easy access and control of a Rain Bird irrigation system from anywhere in the world.

The Rain Bird LNK WiFi Module is designed specifically for their residential and light commercial controllers, namely the ESP-ME and ESP-RZX series.

With the LNK WiFi Module and Rain Bird's FREE mobile app, users get access to offsite management, real-time alerts and advanced water management tools via their smart phone or tablet.

Set up, programming and operation of the module and App is fast and very user friendly and therefore great for all types of users. LNK uses a standard home WiFi network therefore the controller needs to be within range !

- Designed to work with the controllers you already install and understand
- Compatible with recent versions of ESP-ME and new ESP-RZX controllers
- To upgrade existing ESP-ME controllers simply plug the LNK WiFi Module into the accessory port and open the App (replacement door maybe required for controllers manufactured before Nov 2016)
- Operates like a remote onsite and provides complete instant access to the irrigation system when offsite
- Simple and easy to use App for homeowner and contractor alike
- Professional features allow for easy multi-site management for irrigation contractors
- Built in notifications provide troubleshooting access to simplify service calls and irrigation system management
- Automatic weather adjustments provide daily run time changes to save water, using local weather data based on the site postcode
- When enabled the automatic seasonal adjust changes watering schedules based on optional seasonal adjustment as well as local weather data including temperature, wind & rainfall
- Customizable tabs within the App so you can name zones
- Create custom watering schedules within App
- Use your phone as a remote control for manual operation of zones
- Remote 'suspend watering' for up to 14 days
- App allows remote enabling of rain sensor (if fitted to controller) to turn off system during local weather events
- Works on 2.4 Ghz wireless frequency
- Compatible with mobile devices running Apple iOS version 8 or later and Android 4.4 KitKat or later
- Easy to share access to the controller with homeowners or the engineers in your company via a single 'invitation' email
- No limit to number of shares and no associated charge
- Enable individual notifications in the App for each controller and it will notify users to any of these specific events:

*WiFi stick has been rebooted  
Date or Time error  
Shortened solenoid detected  
Controller experienced WiFi disconnection or power cut  
Delayed watering enabled  
Automatic seasonal adjust applied  
Freeze warning  
Irrigation event complete*

- App and functionality for individuals and contractors is completely free of charge with no subscription charges or paid for packages
- Add multiple controllers to the App and group them by site, system type, location, customer type etc.
- Take a photo of each site and add it to the App for easy identification
- Clear and simple system status cards on App home screen for each site, including program summary and adjusted run times

**NEW !**

**WiFi  
Remote Control !**

**See page 53 for  
Compatible controllers**



WiFi LNK Module

RBLNKWIFI

**£109.30**

## Rain Bird Mains Powered Controllers



### RAIN BIRD ESP-LXM MODULAR CONTROLLER

An extremely user friendly controller with large digital display and intuitive programming. The ESP-LXM Modular unit fits the specification for high-end residential and commercial installations. Outdoor wall mount with internal transformer.

- 8 station or 12 station models expandable up to 32 stations and 48 stations respectively (8 or 12 station expansion modules)
- Removable, battery programmable panel for the convenience of both programming instruction and programming prior to installation
- 4 programs with up to 8 start time per station
- Station timing 0 minutes to 12 hours
- D-drip program can be run simultaneously with program A, B or C to maximize hydraulic capacity and minimize watering time
- Flow Smart module can be utilised to combine running of different stations to reduce overall irrigation watering time and can provide flow alerts via IQ.
- Program schedule 1 - 7 days with programmable Calendar-Day-Off option to set any day of the month as a non-watering day for all programs.
- Water budgeting function adjust watering from 0% to 300% (for each program and for each month)
- Programmable Rain Delay enables system to stay off for a specified period of time with an auto restart
- Programmable Valve Delay to allow water storage recovery
- Cycle + Soak by station allows total irrigation time to be split into usable cycles
- Programmable Master Valve/pump start circuit for optimal irrigation control
- Sensor bypass switch allows user to override active sensor by station
- Built-in diagnostic functions let you confirm all program information
- Self-setting circuit breaker identifies a valve or wiring fault and continues with operable stations
- Non volatile memory maintains the programme in event of power outage
- **Accommodates communication cartridge for remote connection via IQ Cloud**

**IQ Cloud Communication module available for remote operation**  
See Page 57

ESP-LX08 8 Station (Basic)	RBESPLX-M08	<b>£346.20</b>
ESP-LX12 12 Station (Incl Flow)	RBESPLX-M12	<b>£553.70</b>
ESP-LXM04 4 station module	RBESPLX-SM04	<b>£61.66</b>
ESP-LXM08 8 station module	RBESPLX-SM08	<b>£132.20</b>
ESP-LXM12 12 station module	RBESPLX-SM12	<b>£177.90</b>

### RAIN BIRD ESP-LXD DECODER CONTROLLER (Replaces MDC 500)

An extremely user friendly decoder based controller with large digital display and intuitive programming. The ESP-LXD fits the specification for high-end residential, commercials, sports and golf course installations. Outdoor wall mount with internal transformer. It has all the features of the ESP-LXME controller (as above) plus many more. Compatible with all Rain Bird decoders.

- 50 station base model is expandable up to 200 stations (75 station modules)
- Opens and closes valves via a 2-wire cable path and Rain Bird decoders
- Up to 4 sensor inputs (one wired locally plus up to 3 decoder-managed)
- Built in Flow Smart software for flow management - simply install up to 5 No. SD-210 sensor decoders and flow meters (not included) and the controller will do the rest, also includes Seek and Eliminate Low Flow (SELF) and Seek and Eliminate Excessive Flow (SEEF) capability in the event of unusual flow events.
- Can provide email alerts for high or low flow in conjunction with IQ Cloud
- Removable, battery-programmable panel for the convenience of both programming instruction and programming prior to installation
- 4 programs with up to 8 start time per station
- Station timing 0 minutes to 12 hours
- Master Valve is programmable by station
- Sensor is programmable by station
- Built-in 2-wire diagnostics to simplify and expedite troubleshooting
- Non volatile memory maintains the programme in event of power outage
- Off-site data back up service available (optional)
- **Accommodates communication cartridge for remote connection via IQ Cloud**

**IQ Cloud Communication module available for remote operation**  
See Page 57

ESP-LXD 50 station Controller	RBDEC-ESPLX-D	<b>£1733.20</b>
ESP-LXDM75 75 station module	RBDEC-ESPLX-DM	<b>£276.70</b>

## Rain Bird Mains Powered Controllers

### RAIN BIRD DECODERS

Rain Bird decoders are design to work in conjunction with the Rain Bird decoder based controllers and central control systems. Factory pre-set circuitry encapsulated within a resin filled body to IP68 makes the decoders ideal for installation within a valve box or for direct burial. Available to control solenoid valves or sensors via a unique address, pre-set in the decoder it allows complete control of an irrigation system.

### RAIN BIRD SOLENOID DECODERS

For use with the Rain Bird ESP-LXD (plus all other Rain Bird decoder based systems) decoders give each solenoid valve or valve-in-head sprinkler a unique field address for the controller to communicate with. Certain models of decoders allow control of more than one valve.



FD-101 Decoder	1 Address 1 Solenoid	RBDEC-FD101	<b>£92.70</b>
FD-102 Decoder	1 Address 2 Solenoids	RBDEC-FD102	<b>£123.60</b>
FD-202 Decoder	2 Addresses 2 Solenoids	RBDEC-FD202	<b>£198.40</b>
FD-401 Decoder	4 Addresses 1 Solenoid	RBDEC-FD401	<b>£234.40</b>
FD-601 Decoder	6 Addresses 1 Solenoid	RBDEC-FD601	<b>£404.80</b>

### RAIN BIRD SENSOR DECODER

For use with the Rain Bird ESP-LXD it allows the connection of external sensor i.e. rain sensor or flow meter with a unique address. The controller can then be programmed as to what the sensor is and the parameters to work by.



SD-210 Sensor Decoder	RBDEC-SD210	<b>£384.80</b>
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### RAIN BIRD LINE SURGE PROTECTOR

For use with Rain Bird decoder control systems they are installed in the field along the decoder wire. Used to protect decoders from current surges that could harm them i.e. lightning strikes



LSP-1 Inline Surge Protector	RBDEC-LSP1	<b>£62.40</b>
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### RAIN BIRD MAXI SURGE PIPE

For use with central control systems it is installed in conjunction with the MGP-1 and additional earthing rods to protect the controller against electrical surges from the cable run in the field i.e. lightning strikes



MSP-1 Maxi Surge Pipe	RBDEC-MSP1	<b>£675.20</b>
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### RAIN BIRD MAXI GROUNDING PLATE

For use with central control systems it is installed in conjunction with the MSP-1 and additional earthing rods to protect the controller against electrical surges from the cable run in the field i.e. lightning strikes



MGP-1 Maxi Grounding Plate	RBDEC-MGP1	<b>£400.60</b>
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*Additional grounding & earthing equipment is available please call for details.*

It is recommended that all decoder systems should be grounded and the level of protection required will depend on the specific system.

A standard ESPLXD Decoder controller will require the minimum of an external earthing rod close to the controller position whilst a PC based central control system (such as Site Control) will require at least a MGP and MSP.

*Please call for full details and specification.*



## Rain Bird Mains Powered Controllers

### RAIN BIRD IQ CENTRAL CONTROL SOFTWARE—INTRODUCTION



You can now upgrade your Rain Bird ESP-LXM or ESP-LXD irrigation controller with the new Rain Bird IQ Cloud platform which provides multiple ways to access your controllers remotely using your PC, tablet or smart phone.

All you need to use IQ is a network communication cartridge that simply plugs into the existing vacant slot on old and new ESPLX controllers therefore offering a retrofit option to all existing controllers.



These communication cartridges are available in two different formats including wired Ethernet or Cellular (GPRS phone signal). The Rain Bird IQ Cloud platform is FOC with no software purchase necessary. Special offers are available when units are purchased as a 'bundle' ie. controller with GPRS communication cartridge.

Please contact us to discuss your specific requirements

### RAIN BIRD IQ CLOUD



The IQ platform provides remote programming, management and monitoring of ESPLX controllers from the comfort of your office PC or on the run via your smart phone and tablet via an internet connection.

The only hardware required, in addition to the controller, is a network communication cartridge that simply slots in. Once your account is set up you can undertake full programming and water management remotely from your PC. Using IQ cloud from your desktop allows you to undertake full programming and monitoring plus when retrofitting to an existing controller you can reverse sync, enabling you to pull existing programming into the IQ software.

On sites with multiple potential users then IQ Mobile (included & FOC) is ideal, using a browser based shortcut on a smart phone or tablet your team can access controllers to initiate manual station starts, tests, set rain delays & view logs.



Rain Bird IQ Cloud Network Communication Module - Ethernet  
Rain Bird IQ Cloud Network Communication Module - GPRS

RBESPLXIQCEN **£644.20**  
RBESPLXIQNGPRS **£1609.90**

Rain Bird ESPLXM8 Controller c/w GPRS IQ Com Module  
Rain Bird ESPLXD Controller c/w GPRS IQ Com Module

RBDECESPLXDIQN **£1793.10**  
RBDECESPLXDIQN **£3101.50**

Please note that the Rain Bird IQ Cloud Network Communication Cartridge with GPRS includes a mobile Sim card (with fixed IP address) with a 1 year contract. This can be renewed on an annual basis (approx cost \$150 dollars per year)

GPRS cartridges have an optional external antenna to give better signal reception if required.

Rain Bird External Antenna for IQ NCC GPRS

IQEXTANTGP **£160.80**

The IQ software is also able to send email alerts for unexpected flow events (such as excessive water loss or irrigation not taking place). This requires an optional Flow Sensor (please refer to page 57 for pricing and details).

The addition of a flow sensor also unlocks an extensive suite of flow monitoring and water management features.



### RAIN BIRD IQ ENTERPRISE - High Security

Rain Bird IQ Enterprise lets you implement the IQ Cloud on a private server. This will allow certain projects to meet with and strict firewall and security restrictions without sacrificing the features of mobility. This package also includes a 1 year GSP (Global Support Plan) with Rain Bird.

**£POA**



### RAIN BIRD IQ DESKTOP - Single User Only

Rain Bird IQ Desktop lets you install the IQ cloud on a single desktop PC with access for a single user. This package includes a 1 year GSP (Global Support Plan) with Rain Bird.

**£POA**

Please contact us to discuss your requirements



## Rain Bird Controller Accessories



### RAIN BIRD RAINSENSOR

The Rain Bird Rain Sensor is indispensable in all automatic irrigation systems for residential and commercial use as it is designed to monitor rainfall levels and automatically override the controller to prevent unnecessary irrigation cycles.

#### FEATURES:

- Works with all 24 VAC output controllers
- Interrupts watering cycle when rainfall exceeds pre-selected level
- Automatic return to normal watering
- Adjustable rainfall setting from 3.2mm to 20mm
- Supplied with 7.6m of cable

RBSENS-RSDBEX £33.30



### RAIN BIRD WIRELESS RAIN/FREEZE SENSOR

The Rain Bird Rain/Freeze Sensor automatically measure rain and temperature and automatically interrupts irrigation during wet and freezing conditions.

#### FEATURES:

- Temperature adjustment between 0.5 - 5°C
- Rainfall settings from 3-13mm
- Sensor signal strength indicator enables one person set up
- Self levelling sensor bracket
- Easy battery replacement for sensor/sender unit

RBSENS-RFSDWRS £112.60



### RAIN BIRD SMRT-Y SOIL MOISTURE SENSOR KIT

Turns any multi zone hardwire controller into a smart controller. Simple and reliable design with in ground sensor and control interface. Sensor takes a moisture reading every 10 minutes and will allow an irrigation cycle if the soil is below threshold, otherwise it will suspend whole cycle.

#### FEATURES:

- Interface displays soil temperature & volumetric water content 0-100%
- Interface displays 7 day irrigation cycle history (suspended/allowed)
- Sensor requires no ongoing maintenance or calibration
- Sensor bypass key for easy deactivation
- Up to two independent zones can be isolated from the sensor
- Automatic moisture threshold setting with manual adjustment buttons

RBSENS-SMRTY £213.30



### MOISTURE SENSORS—IDEAL FOR DECODER SYSTEMS

Watermark moisture sensor kit to provide either NO or NC circuit for prevention of irrigation cycles. Unit available as battery powered **OR** 24VAC powered unit. Kit includes one control module and one sensor.

The battery powered control unit can be located directly within a valve box and connected to the irrigation two wire decoder cable path via a sensor decoder.

The 24VAC control unit is located next to irrigation controller and requires a 24VAC power supply plus a dedicated two core cable to run out to the position of the underground sensor.

Battery Powered  
24VAC Powered

RBDEC-WS1-BAT £210.00  
RBDEC-WS1 £181.00

**NEW !**



### RAIN BIRD FLOW SENSOR

The Rain Bird range of Flow Sensors are an ideal way to monitor flow rates within the irrigation system. Used in conjunction with the Flow Smart features of ESPLXM and ESPLXD controllers and also the IQ Cloud Platform, it unlocks a host of additional features including the ability to email an alert if there is high or low flow event.

#### FEATURES:

- Simple six-bladed impeller design
  - Designed for outdoor or underground use
  - Accuracy  $\pm 1\%$  (full scale)
  - Velocity 0.15 - 9.2 m/s (model dependant)
  - Pressure 0 - 6.9bar (max)
- 1½" Flow Sensor 1.2-22.7m³  
2" Flow Sensor 2.3-45.4m³

RBSENS-FLOW040 £900.30  
RBSENS-FLOW050 £923.00



## Hunter Mains Powered Controllers



### HUNTER X-CORE CONTROLLER

The Hunter XC Controller is a compact, user-friendly irrigation controller ideal for residential irrigation schemes. Available as indoor wall mount with external transformer or outdoor with an internal transformer.

- LCD display with easy dial programming
- Water budgeting adjusts watering times from 0% to 150%
- 3 programs with up to 4 programmable start times
- Station run time 0 minutes - 4 Hours
- Can connect a rain sensing device and pump start relay or master valve
- Smart Port to allows connection of the Roam Remote Control
- Hunter trouble shoot to diagnose wiring issues

X-CORE-2 Indoor	HUNCON-XCI02	<b>£68.40</b>
X-CORE-4 Indoor	HUNCON-XCI04	<b>£77.52</b>
X-CORE-6 Indoor	HUNCON-XCI06	<b>£86.64</b>
X-CORE-8 Indoor	HUNCON-XCI08	<b>£109.44</b>

X-CORE-4 Outdoor	HUNCON-XCO04	<b>£118.56</b>
X-CORE-6 Outdoor	HUNCON-XCO06	<b>£136.80</b>
X-CORE-8 Outdoor	HUNCON-XCO08	<b>£164.16</b>



### HUNTER PRO-C CONTROLLER

The Hunter Pro-C Controller is a compact, user friendly and hugely flexible controller, meeting the irrigation requirements for a wide range of residential and smaller commercial landscapes. Indoor or outdoor wall mount with an internal transformer.

- 4 station base model expandable up to 16 stations (3 or 9 station expansion modules)
- Large LCD Display with easy dial programming
- 4 programs with up to 4 programmable start times
- Station run time 0 minutes - 6 hours
- Water budgeting adjusts watering times from 0% to 150%
- Can connect a rain sensing device and pump start relay or master valve
- Smart Port to allows connection of the Roam remote control
- Programmable station delay
- Easy Retrieve Memory allows for a default program to be stored and recalled at anytime
- Non-volatile Memory maintains the program during power outage

Pro-C Controller	HUNCON-PROC16	<b>£173.28</b>
Pro-C 3 Station Module	HUNCON-PROCM03	<b>£44.65</b>
Pro-C 9 Station Module	HUNCON-PROCM09	<b>£196.08</b>
Hydrawise Pro C Face Panel Upgrade	HYDCON-HPC	<b>£236.93</b>



### HUNTER I-CORE

The Hunter I-CORE Controller is a user friendly, modular controller it is ideal for high-end residential or light commercial projects. Indoor or outdoor wall mount. Optional DUAL module converts unit into decoder based controller.

- 6 station base model upgradable up to 30 stations (6 station expansion modules). Metal cabinet version upgradable to 42 stations or 48 stations with use of Dual Decoder module
- 4 programs with up to 8 start times (4th program up to 16 start times)
- Station run time 0 minutes to 12 hours
- Water budgeting adjusts watering times from 0% to 300%
- Multiple Sensor compatibility (2 for Plastic Cabinet, 3 for Metal Cabinet) and pump start relay or master valve
- Programmable station delay and rain delay
- Hunter Quick Check helps troubleshoot wiring issues
- Self-diagnostic circuit breaker skips shorted stations and continues watering
- Easy Retrieve Memory allows for a default program to be stored and recalled
- Non-volatile Memory maintains the program during power outage

I-CORE 6 Station Plastic	HUNCON-IC06P	<b>£424.08</b>
I-CORE 6 Station Metal	HUNCON-IC06M	<b>£742.99</b>
I-CORE 6 Station Module	HUNCONICM06	<b>£95.05</b>

DUAL Decoder Module	HUNCON-ICDUAL	<b>£380.14</b>
DUAL 1 Station Decoder	HUNCON-ICMD01	<b>£99.33</b>
DUAL 2 Station Decoder	HUNCON-ICMD02	<b>£171.05</b>
DUAL Surge Protector	HUNCON-ICMDSP	<b>£77.76</b>

## Hunter Controllers & Accessories



### HUNTER HYDRAWISE

Hydrawise WiFi enabled irrigation controllers provide automated control based on real weather conditions. Connecting to the internet via a standard WiFi network they enable remote access by multiple users via PC, tablet and smartphone.

They can also be used in conjunction with a pulse water meter that not only monitors and provides water use reports but will also send you an email or a text if there is a system problem such as high flow event or low flow event.

For contractors wishing to utilise the Hydrawise platform for multiple controllers and sites then an annual 'Contractor' subscription does apply. Also an annual 'Enthusiast' plan is required for each controller to enable all features relating to weather station selection and flow meter monitoring alarms.



6 Station Internal Controller	HYDCON-006	<b>£225.00</b>
12 Station Internal Controller	HYDCON-012	<b>£262.00</b>
12 Station Expansion Module	HYDCON-012M	<b>£140.00</b>

6 Station External Controller	HYDCONPRO-006	<b>£358.15</b>
12 Station External Controller	HYDCONPRO-012	<b>£439.70</b>
24 Station External Controller	HYDCONPRO-024	<b>£770.00</b>

Pro C Face Panel Upgrade	HYDCON-HPC	<b>£236.93</b>
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½" Flow Meter (low flow 50l/hr)	WMETERPUL015LF	<b>£82.00</b>
¾" Flow Meter	HYDWM-025	<b>£149.00</b>
1" Flow Meter	HYDWM-032	<b>£171.00</b>

Contractor Subscription (12 Months)	HYDSUB-CON012	<b>£111.00</b>
Enthusiast Subscription (12 Months)	HYDSUB-ENT012	<b>£55.00</b>

### HUNTER MINI-CLIK RAIN SENSOR

The Hunter Mini-Click rain sensor is the ideal way to ensure your irrigation system only runs when water is needed.

Easy to install, it will automatically shut-off the controller and restart irrigation when required. Supplied with 7.5m of cable and suitable for all controllers.

#### FEATURES:

- Adjustable sensitivity 3mm to 25mm
- Debris tolerant
- 5 year warranty

#### DIMENSIONS:

H: 127mm x L: 152mm

Hunter Mini-Click

HUNSEN-MINICLIK **£37.39**



### HUNTER ROAM

The Hunter Roam Remote Control allows you to easily start individual irrigation zones or programs without the need to walk back to the controller.

This is ideal for residential and small commercial irrigation projects. Compatible with Hunter X-Core, I-Core, Pro-C and ACC controllers via Smart Port connection.

#### FEATURES:

- Operation distance up to 300m max but will depend on site
- 128 programmable addresses allows multiple ROAM remotes in one neighbourhood
- Variable Run Times 1-90 minutes
- Handheld requires 4 x AAA batteries (included)
- Base unit at Smart Port powered by controller 24VAC
- Sturdy ABS construction
- Additional smart port wiring harness available for service calls.

Hunter Roam	HUNCON-ROAM	<b>£259.92</b>
Hunter Roam Extra Smart Port	HUNCON-SPWH	<b>£13.68</b>

Hunter Roam	HUNCON-ROAM	<b>£259.92</b>
Hunter Roam Extra Smart Port	HUNCON-SPWH	<b>£13.68</b>



## Signal Cable, Connectors & Ducting

### APPLICATIONS

Used to make electrical connections between the signal cable and solenoid valve cables. The King connector and new Rain Bird DBM10 are used in applications when a moisture-resistant connector is sufficient such as in non flooding valve boxes. The DBRY is more suitable for larger systems with 2.5mm cable and where a waterproof connection is required such as when direct buried with valve in head rotos. Supplied in bags of 10.



**KING:** Maximum wire Voltage : 30 V  
Permits use with 2 or 3 wires sized 1.5 to 2.5mm<sup>2</sup>  
Copper-to-copper only. For wet and direct burial. Compact size

RBDBKING £1.50



**Rain Bird DBM10:** Maximum wire Voltage : 600 V  
Permits use with 2 to 3 wires sized 0.8 to 1.5mm<sup>2</sup>  
Self-stripping. Use with insulated copper wire. Water resistant. Compact size

RBDBM £1.30



**Rain Bird DBRY20:** 24VAC to 600 VAC  
Wire combinations ranging from 0.3 to 8mm<sup>2</sup>  
IP67 & UL486D Certified for direct burial.

RBDBRY20 £2.00

### RAIN BIRD PREMIUM IRRIGATION SIGNAL CABLE

Low voltage (< 30 volts) multi-conductor cable, ideal for carrying power supply from controller terminal strips to electric valves. 0.64mm black polyethylene jacket, highly resistant to mechanical stress, chemicals and moisture Available in 3,5,7,9 and 13 core.



3 core	75m drum
5 core	75m drum
5 core	150m drum
7 core	75m drum
7 core	150m drum
9 core	75m drum
13 core	75m drum

RBIRRICABLE03-075	£70.50
RBIRRICABLE05-075	£106.40
RBIRRICABLE05-150	£212.80
RBIRRICABLE07-075	£143.70
RBIRRICABLE07-150	£287.40
RBIRRICABLE09-075	£184.20
RBIRRICABLE13-075	£247.40

Lower Net Pricing !

### RAIN BIRD DECODER CABLE 2 CORE

This super tough cable is ideal for all decoder based systems on large landscape, sport and golf course projects. Solid bare 2.5mm copper conductors with core insulation of 0.7mm polyethylene (blue & black). Blue polyethylene outer sheath with Rain Bird marking. Available in 500m drum or cut lengths.



RBMW0500	£1068.80
RBMW1000-CUT	£3.08

### STANDARD QUALITY IRRIGATION SIGNAL CABLE

0.8mm irrigation control cable-takes signal from controller to solenoid valve



2 core	100m coil
4 core	100m coil
4 core	500m coil
6 core	100m coil
6 core	500m coil
8 core	100m coil
8 core	500m coil
10 core	100m coil
10 core	500m coil
12 core	100m coil
12 core	500m coil
2 core (2.5mm)	100m coil
2 core (2.5mm)	500m coil

IRRICAB0802-100	£50.90
IRRICAB0804-100	£72.40
IRRICAB0804-500	£362.00
IRRICAB0806-100	£105.40
IRRICAB0806-500	£527.00
IRRICAB0808-100	£140.70
IRRICAB0808-500	£703.50
IRRICAB0810-100	£192.00
IRRICAB0810-500	£960.00
IRRICAB0812-100	£218.30
IRRICAB0812-500	£1091.50
IRRICAB2502-100	£142.10
IRRICAB2502-500	£710.50

2.5mm<sup>2</sup> standard cable:

### CABLE DUCTING

Flexible ducting for the protection of cables and smaller pipes. Black in colour and complete with draw cord.



40mm	50m coil
50mm	50m coil
63mm	50m coil

DUCTFLEXITWIN BK040050	£38.50
DUCTFLEXITWIN-BK050050	£46.80
DUCTFLEXITWIN-BK063050	£67.00

### WIRE STRIPPER TOOL

Multi function wire stripper, ideal for all electrical and irrigation work



RBWIRESTRIPPER	£36.00
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## Sump Pumps



### GRUNDFOS UNILIFT

A multi purpose pump for water removal, transfer and drainage. Ideal for ponds, waterfalls and fountains. A robust pump for continuously pumped applications, partly or completely submerged. Built in thermal cut out prevents the pump overheating. Can handle solids in suspension of up 10mm in diameter. 10m cable as standard. Supplied with a non-return flap and BSP male multi-adaptor for ¾", 1" and 1¼" threads. Complete with float switch for automatic operation.

Unilift CC5 Automatic  
Unilift CC7 Automatic  
Unilift CC9 Automatic

GFOSUNICC5A1 £163.00  
GFOSUNICC7A1 £189.00  
GFOSUNICC9A1 £244.00

TYPE	POWER (Kw)	FLC (amps)	CAPACITY (m³)	HEAD (M)	OUTLET
CC5 A	0.24	1.1	0.7 - 5.5	3.0 - 0.5	Optional
CC7 A	0.38	1.7	0.7 - 9.5	6.0 - 0.5	Optional
CC9 A	0.78	3.7	0.7 - 14.0	9.1 - 1.1	Optional

### GRUNDFOS KP

A multi purpose pump for water removal, transfer and drainage. Ideal for ponds, waterfalls and fountains. A robust pump for continuously pumped applications, partly or completely submerged. Built in thermal cut out & can handle solids in suspension of up 10mm in diameter. 5m cable as standard. Can be fitted with a simple non-return flap valve. Complete with float switch for automatic operation *(also available with vertical float switch for confined space installation)*.

KP150 Automatic  
KP250 Automatic  
KP350 Automatic

GFOSKP150A1 £267.00  
GFOSKP250A1 £317.00  
GFOSKP350A1 £383.00

TYPE	POWER (Kw)	FLC (amps)	CAPACITY (m³)	HEAD (M)	OUTLET
KP150A1	0.30	1.3	0.9 - 8.2	5.0 - 1.0	1¼" FBSP
KP250A1	0.48	2.3	0.9 - 10.5	7.5 - 1.0	1¼" FBSP
KP350A1	0.70	3.2	0.9 - 14.0	9.1 - 1.2	1¼" FBSP

### LOWARA DOC

The Lowara Doc submersible sump pumps for clean and dirty water use. Made from corrosion resistant materials and of compact design. Available in 3 versions with channel or vortex impellers. Supplied with float switch for automatic operation (available without or with vertical float switch for confined space installation). Built-in capacitor and thermal overload protection.

DOC 3GT Automatic  
DOC 7GT Automatic  
DOC 7VXA Automatic

LOWDOC3GT £330.00  
LOWDOC7GT £433.00  
LOWDOC7VXA £357.00

TYPE	POWER (Kw)	FLC (amps)	CAPACITY (m³)	HEAD (M)	OUTLET
DOC 3GT	0.25	1.43	1.0 - 8.1	6.5 - 2.0	1¼" FBSP
DOC 7GT	0.55	3.47	1.0 - 13.5	6.9 - 3.0	1¼" FBSP
DOC 7VXA	0.55	2.96	1.0 - 10.5	10.9 - 4.0	1¼" FBSP

### LOWARA DIWA

The Lowara Diwa submersible sump pumps for clean or dirty water use. Made entirely from AISI 304 stainless steel and of compact lightweight design. Mechanical seal and coated diffuser plate for maximum resistance to abrasion. Complete with float switch for automatic operation (available without or with vertical float switch for confined space installation). Built-in capacitor and thermal overload protection.

DIWA 05A Automatic  
DIWA 07A Automatic  
DIWA 11A Automatic  
DIWA 15A (3 phase)

LOWDIWA05A £711.00  
LOWDIWA07A £760.00  
LOWDIWA11A £902.00  
LOWDIWA15A3PH £987.00

TYPE	POWER (Kw)	FLC (amps)	CAPACITY (m³)	HEAD (M)	OUTLET
DIWA 05A	0.55	3.92	1.0 - 15.0	10.9 - 3.8	1½" FBSP
DIWA 07A	0.75	6.20	1.0 - 19.5	14.0 - 3.9	1½" FBSP
DIWA 11A	1.1	6.83	1.0 - 22.5	16.1 - 4.0	1½" FBSP
DIWA 15A	1.5	6.74	1.0 - 25.2	20.6 - 5.3	1½" FBSP



## Surface Mounted Pumps & Packaged Sets



### GRUNDFOS CRI & LOWARA SV

CRI & SV pumps are vertical multistage centrifugal pumps with proven performance and reliability and ideally suited for use in all types of irrigation system.

The pump range is available in many different pump sizes with varying numbers of stages to provide the flow and pressure required. There is a choice of pump material and motors are available as a 'e' version with variable speed controls to ensure maximum efficiency.

Various flange configurations are available to suit your specific requirements and in the case of retrofitting to replace old pumps by different manufacturers it is normally possible to match face to face dimensions for an easy change over. We are VERY competitive on fully packaged pumpsets pre assembled and ready for connection and commissioning.



### GRUNDFOS CM & LOWARA HM

CM & HM pumps are horizontal multistage end suction centrifugal pumps. The compact design is ideally suited to many small commercial and residential installations where space is at a premium.

This pump range is available in many different pump sizes with varying numbers of stages to provide the flow and pressure required. There is a choice of cast iron or stainless steel and the motors are available in single and three phase plus as an 'e' version with variable speed.

For basic pressurised units most pumps are available as pre assembled units with electronic pressure switches and pressure vessels. Threaded inlet sizes vary so for the retrofit and replacement of old existing pumps. Contact us with your duty requirements and we will prepare competitive pricing.



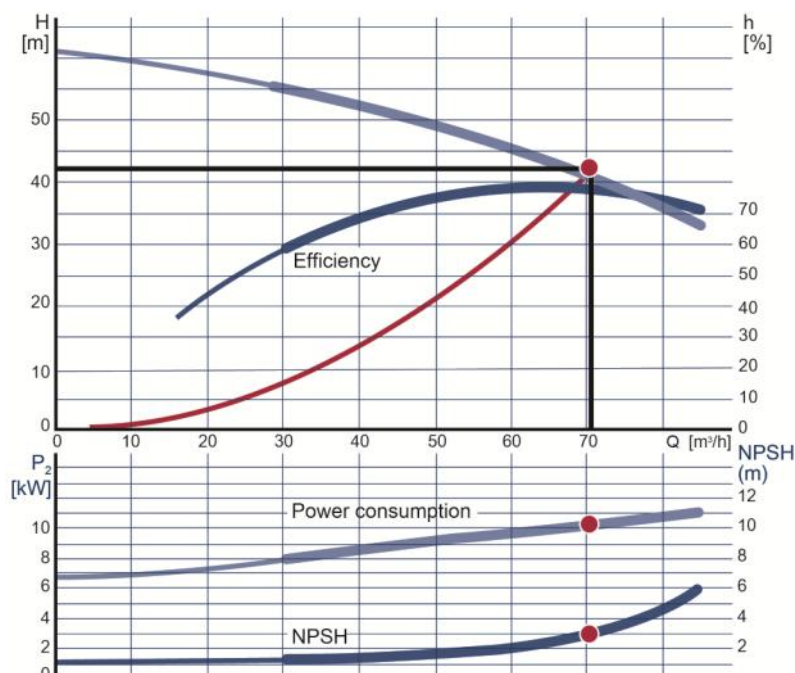
### OUTLINE GUIDE TO READING PUMP FLOW CURVES

The QH curve below shows the head the pump is able to perform at a given flow. Pressure or head is measured in the left hand column (m) and this is metres head (10m = 1 bar). Flow is indicated on the horizontal axis (Q) and this is m<sup>3</sup>/hour (1m<sup>3</sup> = 1000 litres).

The duty point required is where the two points overlap on the pump curve. Example below shows a pump that would deliver 70m<sup>3</sup> @ 4.2 bar.

It is also important to compare the duty point with the efficiency, power consumption and NPSH curve. Staying within the efficiency and power consumption bands (normally indicated by the bold line) ensures the pump and motor are working within the manufacturers recommendations.

The NPSH value of a pump is the minimum absolute pressure that must be present at the suction side of the pump to avoid cavitation. NPSH-values are measured in [m] and depend on flow, when flow increases the NPSH-value also increases.





## Compact Packaged Pumpsets (WRAS Approved)

To ensure compliance of water regulations with regard to the appropriate level of protection against backflow the majority of ALL commercial irrigation schemes (including most greenwall, roof gardens and planter projects) require category five protection, which is most commonly provided by using a break tank with air break and an irrigation booster pump. Whilst straight forward to install this does present two common issues, firstly the space required to accommodate this equipment, and secondly the cost.

The selection of packaged WRAS approved pre-assembled mini pumpsets on this page addresses all these issues. Compact in size, varying duties and competitive pricing ensures we have the solution to all your requirements.

### PEDROLLO POWER TANK

The Powertank compact has been designed for very compact applications and is available with fixed or variable speed controls. 125 litre capacity tank.



- Pre-fitted WRAS approved fill valve with AB air gap
- Integral overflow weir
- Minimal installation required
- Dry run protection and auto restart (time delay)
- ½" BSP inlet for water inlet
- 1" BSP outlet for outlet
- 1½" BSP Overflow
- 1" Drain off on bottom of tank
- 0.55kw 3.4 amp pump motor
- Dimensions W: 490mm H:763mm D:560mm

Fixed Speed Unit  
Variable Speed Unit

PUMPPEDPTC-FD **£1391.00**  
PUMPPEDPTC-VS **£2023.00**

*Ideal for Greenwall Schemes !*

Pump Option	Power		Q l/min										
	kW	HP		0	10	20	30	40	50	60	70	80	
Fixed Speed	0.55	0.75	H Metres	42	40	38	34	30	24	18	11.5	5	
Variable Speed	0.55	0.75	H Metres	48	46	44.5	42.8	40.5	37.5	33.5	29	23	

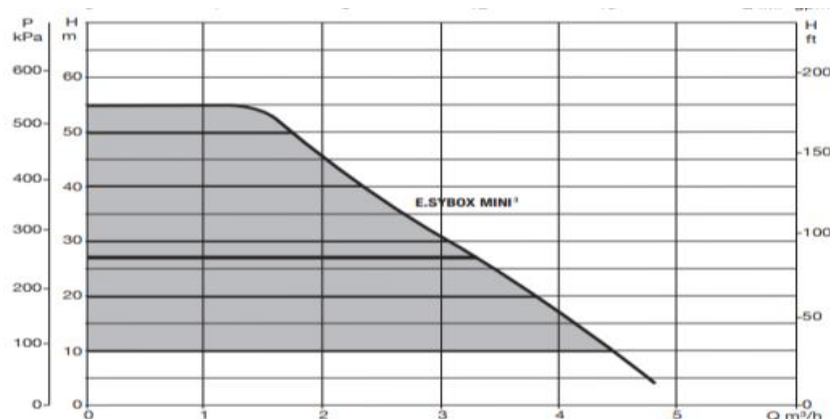
### DAB B-TANK CAT 5 MINI

This compact WRAS approved variable speed unit is ideally suited for commercial irrigation schemes. Supplied fully packaged this unit can even be wall mounted for installation within the smallest plant rooms.



- Can be floor or wall mounted
- Water cooled and sound dampening for extremely quiet running unit
- WRAS approved unit and minimal installation required
- Integrated chamber with WRAS approved expansion vessel
- Volt free external signal (to BMS) for high water level in storage tank
- Dry running protection
- 18 litre storage tank
- Quick fill ¾" brass solenoid valve from incoming mains
- 1" BSP outlet for outlet
- Stainless steel wall mount brackets included
- 0.8kw 4amp
- Dimensions W:600mm H:685mm D:450mm

DABBTANKCAT5M **£3700.00**



## Submersible Pumps

### GRUNDFOS SB (Manual) & SBA (Auto On/Off)

The Grundfos SB & SBA pump range are submersible booster pumps ideal for clean water jobs such as small irrigation schemes and rainwater harvesting systems.

- IP68 rated motor mounted in top of the pump, thus cooled by pumped liquid
- Available with built-in pressure switch (SBA version)
- Available with floating suction kit or strainer inlet (SBA AW version)
- Built-in thermal overload protection
- Supplied with 15 meters of cable
- Built of high quality composite and stainless steel materials
- Runs of a 230v, single phase, 50Hz supply
- All SB & SBA pumps have 1" female BSP outlet

SB = Manual. SBA = Auto On/Off. SBA AW = Auto On/Off with Floating Suction Kit  
All our stock Grundfos SB & SBA pumps have float switches for dry run protection

Type	Power (Kw)	FLC (amps)	Capacity (m³/h)	Pressure (Bar)
SB3-25A	0.57	2.8	0.6 - 4.8	2.2 - 0.8
SB3-35A	0.80	3.8	0.6 - 4.8	3.2 - 1.3
SB3-45A	1.05	4.8	0.6 - 4.8	4.1 - 1.4
SBA3-35A	0.80	3.8	0.6 - 4.8	3.2 - 1.3
SBA3-35AW	0.80	3.8	0.6 - 4.8	3.2 - 1.3
SBA3-45A	1.05	4.8	0.6 - 4.8	4.1 - 1.4
SBA3-45AW	1.05	4.8	0.6 - 4.8	4.1 - 1.4

GFOSSB3-25A	<b>£300.00</b>
GFOSSB3-35A	<b>£322.00</b>
GFOSSB3-45A	<b>£355.00</b>
GFOSSBA3-35A	<b>£407.00</b>
GFOSSBA3-35AW	<b>£500.00</b>
GFOSSBA3-45A	<b>£428.00</b>
GFOSSBA3-45AW	<b>£520.00</b>

### LOWARA SC SUBMERSIBLE PUMPS

The Lowara SC pump is a very reliable and proven 5" submersible and is ideal for pumping water in water supply, irrigation and rainwater harvesting applications.

- IP68 rated motor mounted in top of the pump, thus cooled by pumped liquid
- Built-in thermal and current overload protection
- Can be installed horizontally
- Supplied with 20 meters of HO7-RNF cable
- Supplied with a float switch for dry run protection
- Runs off a 230v, single phase, 50Hz supply
- All SC pumps have 1¼" female BSP outlet
- 2 year warranty

TYPE	Power (Kw)	FLC (amps)	Capacity (m³/h)	Pressure (BAR)
2SC5	0.93	4.37 amps	1.5 - 4.00	4.2 - 2.3
2SC7	1.15	5.19 amps	1.5 - 4.00	5.4 - 3.0
2SC9	1.32	5.88 amps	1.5 - 4.00	6.4 - 3.7
2SC11	1.63	7.25 amps	1.5 - 4.00	7.5 - 4.4
4SC7	1.18	5.28 amps	2.5 - 7.00	4.3 - 2.0
4SC9	1.38	6.17 amps	2.5 - 7.00	5.2 - 2.4
4SC11	1.76	7.85 amps	2.5 - 7.00	6.2 - 3.0

LOWSC205CG	<b>£670.00</b>
LOWSC207CG	<b>£725.00</b>
LOWSC209CG	<b>£762.00</b>
LOWSC211CG	<b>£833.00</b>
LOWSC407CG	<b>£728.00</b>
LOWSC409CG	<b>£764.00</b>
LOWSC411CG	<b>£838.00</b>

### DAB PULSAR DRY PUMPS WITH BASEPLATE

The DAB Pulsar range can be base/merged or 'dry' surface mounted and commonly use with a floating suction assembly so ideal for rainwater harvesting tanks.

- IP68 rated motor mounted in top of the pump, thus cooled by pumped liquid
- Built-in thermal and current overload protection
- Supplied with 20 meters of HO7-RNF cable
- 1¼" female BSP inlet on base plate so pump stands up
- Supplied without a float switch
- Runs of a 230v, single phase, 50Hz supply
- All Pulsar Dry pumps have 1¼" female BSP outlet

TYPE	Power (Kw)	FLC (amps)	Capacity (m³/h)	Pressure (BAR)
PULSAR DRY 30-50MNA	0.55	4.4	0.5 - 4.5	4.1 - 1.6
PULSAR DRY 40-50MNA	0.75	5.2	0.5 - 4.5	5.4 - 2.2
PULSAR DRY 50-50MNA	1.0	6.5	0.5 - 4.5	6.8 - 3.1
PULSAR DRY 65-50MNA	1.2	7.8	0.5 - 4.5	8.1 - 3.9
PULSAR DRY 30-80MNA	0.75	5.2	1.0 - 6.0	4.6 - 2.0
PULSAR DRY 40-80MNA	1.0	6.5	1.0 - 6.0	5.8 - 2.9
PULSAR DRY 50-80MNA	1.2	7.8	1.0 - 6.0	6.9 - 3.4

DABPULSARDRY-30-50MNA	<b>£662.00</b>
DABPULSARDRY-40-50MNA	<b>£688.00</b>
DABPULSARDRY-50-50MNA	<b>£779.00</b>
DABPULSARDRY-65-50MNA	<b>£836.00</b>
DABPULSARDRY-30-80MNA	<b>£685.00</b>
DABPULSARDRY-40-80MNA	<b>£776.00</b>
DABPULSARDRY-50-80MNA	<b>£829.00</b>

## Submersible Pumps



### GRUNDFOS SQ SUBMERSIBLE PUMPS - Fixed Speed

The Grundfos SQ pump is a 3" multistage submersible pump and is ideal for pumping water in water transfer, pressure boosting, water supply, borehole and irrigation applications.

- IP68 rated high efficiency motor mounted in top of the pump, thus cooled by pumped liquid
- Built-in thermal, current overload, under voltage and over voltage protection
- Supplied with 0.5 meters of KTW approved cable and KM-type cable heat shrink kit, additional cable can be supplied for each individual installation (pre-installed by Grundfos recommended)
- Traditionally installed within boreholes, it can be converted to tank use with flow sleeve kit (optional)
- High wear resistance with individual impellers with their own tungsten carbide/ceramic bearings
- Soft start
- Runs on a 230v, single phase, 50Hz supply
- All SQ pumps have 1 1/4" female BSP outlet

*A wide range of SQ pumps are available please call the sales team for details.*

### GRUNDFOS SQE SUBMERSIBLE PUMPS - Variable Speed

The Grundfos SQE pump is a 3" multistage variable speed submersible pump and is ideal for pumping water in water transfer, pressure boosting, water supply, borehole and irrigation applications.

- IP68 rated high efficiency motor mounted in top of the pump, thus cooled by pumped liquid
- Built-in thermal, current overload, under voltage and over voltage protection
- Supplied with 0.5 meters of KTW approved cable and KM-type cable heat shrink kit, additional cable can be supplied for each individual installation (pre-installed by Grundfos recommended)
- Traditionally installed within boreholes, they can be converted to tank use with the use of flow sleeve kit (optional)
- High wear resistance with individual impellers with their own tungsten carbide/ceramic bearings
- Highly efficient variable speed performance when used with CU301 or CU300 control panel (CU300 for duties above 6 bar)
- Soft start
- Runs off a 230v, single phase, 50Hz supply
- All SQE pumps have 1 1/4" female BSP outlet

*A wide range of SQE pumps are available please call the sales team for details*

Type	Power (Kw)	FLC (amps)	Capacity (m³/h)	Pressure (Bar)
SQ1/SQE1	0.7 - 1.85	2.5 - 10.5	0.4 - 1.8	23.0 - 1.8
SQ2/SQE2	0.7 - 1.85	3.5 - 10.2	0.8 - 3.2	15.0 - 1.3
SQ3/SQE3	0.7 - 1.85	3.5 - 11.0	0.9 - 4.5	14.5 - 1.4
SQ5/SQE5	0.7 - 2.15	2.5 - 10.8	2.0 - 7.0	9.8 - 0.5
SQ7/SQE7	1.7 - 1.68	3.3 - 9.1	2.0 - 8.5	5.9 - 0.5

### GRUNDFOS CU301 & CU300

Allows the Grundfos SQE to maintain variable speed constant pressure (CU301 max 6 bar & CU300 max 10 bar) within a system, allowing maximum pump performance at varying flows. Requires the use of a pressure transducer.

GFOSCU301 **£346.00**  
GFOSCU300 **£388.00**

### GRUNDFOS PRESSURE TRANSDUCER

Grundfos industrial pressure transducer with 1/2" BSP male thread for use with Grundfos CU301 and CU300 constant pressure system. 0 - 6 bar and 0 - 10 bar.

GFOSPSRPI0-06 **£175.00**  
GFOSPSRPI0-10 **£175.00**

### GRUNDFOS SQ FLOW SLEEVE

Allows installation of Grundfos SQ and SQE pump horizontally with a tank, ensuring sufficient water flow past the motor and thus providing sufficient cooling for correct operation.

GFOSQFLOW **£293.00**  
-SLEEVE

CALL US FOR PRICING ON SQ & SQE  
We are rarely beaten!

## Pump Controls



### PUMPSTART PRO- RELAY WITH ADVANCED FEATURES

Our NEW Pumpstart Pro is a comprehensive pump control panel with the flexibility to suit all applications including pressure boosting, tank filling & emptying and external 24VAC input from an irrigation controller. Available as a single and three phase unit.

- Choice of control in a single panel ie. 24v external input, pressure switch, float switch or probes (2 or 3 can be used depending on requirements)
- Adjustable current sensing for underload and overload protection of pump, including alarm delay.
- Low water level alarm light and dry run protection (if connected to optional float switch)
- Power light, run light, multiple fault light plus Hand/Off/Auto
- Single phase unit adjustable overload up to max 18 amps 2.2kw
- Three phase unit adjustable overload up to max 16 amps 7.5kw
- Normally open or normally closed alarm output for BMS and/or beacon.
- Front door rotary isolation switch on 3 phase unit only
- Optional bluetooth connection module available for programming panel using FOC Bluetooth app
- Single phase unit supplied within bespoke compact enclosure for smart and tidy installations (238mm x 190mm x 90mm)

**NEW !**

Single Phase Pumpstart Pro	PUMPSTPR01	£199.00
Three Phase Pumpstart Pro	PUMPSTPR03	£274.00
Bluetooth Module	PUMPSTPRBT	£85.00
50mm Red Flashing Beacon	PUMPSTPRRB	£52.00
Single Probe (no cable)	CONMANSL1	£11.00
Probe YY Cable (per Metre)	CABYY0752PVC	£0.51

### IRRISTART - RELAY WITH STANDARD FEATURES

Assembled in-house by our panel builders to provide a ready-to-install high quality pump control unit. The panel consists of an IP56 waterproof enclosure, within is a motor contactor starter, thermal overload (to protect your pump motor), 24 volt relay and connector strip. Wiring diagram provided within the lid. All you need to do is connect mains power, the pump cable and the 24VAC MV/Com output of the irrigation controller. Also accepts a float switch (or similar) for dry run protection.

#### SPECIFICATIONS:

Overload adjustment:	4A - 7A or 6A - 9A
Maximum motor size:	2.2kW
Dimensions:	150mm x 110mm x 70mm

Irristart 4A - 7A	CONIRRI0406	£129.32
Irristart 6A - 9A	CONIRRI0609	£129.32

### DAB E BOX PLUS D - SINGLE & THREE PHASE IN ONE UNIT

The E Box Plus is an electronic control panel for the protection and automation of one or two pumps and is ideal for domestic and commercial applications. Single or three Phase in a single control box with adjustable current of between 1 and 12A and Max power of up to 5.5kw

Provides all the functions and protections required for the installation of one or two pumps for draining, filling and pressure boosting applications.

- Made from top quality components guarantee high reliability and trouble free operation. IP55
- Inbuilt software provides step by step guidance on first install via LCD display
- Max 12 Amp
- Max Motor 5.5KW
- Single phase or 3 Phase in a single unit
- Provides overload and over temperature protection with auto reset
- Short circuit fused protection
- Pump current surge protection
- Includes terminals to accept pressure switches, pressure sensors, alarm notification for BMS, and probes.

DAB E Box Plus D

DABEBOXPLUS-D £544.00

*Our technical team can assist you in specifying the right components to ensure you have everything needed to complete the job. If you are looking for a particular item that is not listed please do not hesitate to call.*

## Pump Controls

**NEW !**



### LOWARA RESIBOOST - VARIABLE SPEED CONTROL

The ResiBoost is 'single phase in and single phase out' variable speed control panel specially designed for maintaining constant pressure, independent of flow for maximum efficiency and energy savings. Perfect for irrigation systems with various zones of high and low flow.

Compatible with most single phase fixed speed pumps with up to 12 amp motors, this unit offers the opportunity to upgrade existing control systems at minimal cost. Most systems would require a pressure vessel (not included). For new irrigation installations the Resiboost is ideally paired with the Lowara SC range of submersible pumps.

- Supplied with 0-10 bar external pressure transducer
- Auto restore system in case of power supply failure
- Built-in dry run protection
- Terminals for independent low water level float switch
- Pressure set point from 0-8 bar
- Power 230 volt single phase electric supply
- LCD display and quick start menu for easy set up
- Suitable for clean water only
- Panel IP54 with dimensions H344mm x W186mm x D173mm
- Additional electrical motor filter is required when there is more than 20m between the pump and the Resiboost control panel.

Wall Mounted 6 amp Resiboost  
Motor Filter for 6 amp Panel  
Wall Mounted 12 amp Resiboost  
Motor Filter for 12 amp Panel

LOWRES-MMA06 **£473.00**  
LOWRESMF106020 **£225.00**  
LOWRES-MMA12 **£541.00**  
LOWRESMF112020 **£241.00**



### GRUNDFOS PRESSURE MANAGER

The Grundfos Pressure Manager is designed to automatically start/stop your pump when there is a flow demand, and turning it off again when there is no flow.

- Single Phase only incorporating an electronic pressure switch
- Dry running protection and cycling alarm
- Built-in non-return valve (one still normally required on the pump)
- Pressure rating 1.5 bar - 10 bar (maximum) & Max flow 10m³/h
- 1" BSPM bottom inlet and 1" BSP top outlet
- Start pressure 2.2 bar (fixed on PM1-22) or 1.5 - 5 bar (adjustable PM2)
- Adjustable inlet/outlet configuration (PM2 only)
- Current 6amp maximum (PM1) or 10amp maximum (PM2)

PM1 - 2.2 bar start pressure  
PM2 - adjustable start pressure

GFOSPM1-22 **£151.00**  
GFOSPM2-AD **£175.00**

### PRESSURE SWITCH

Used in conjunction with a pressure vessel, non-return valve, pressure gauge, and isolation valves to create a pressurized system. XMP units require careful adjustment or choose Danfoss unit for fast and easy set up.

Telemechanique XMP06 0.9 to 6 bar  
Telemechanique XMP12 1.2 to 12 bar  
Danfoss 0.2 to 8 bar easy adjust

PSXMP06 **£41.47**  
PSXMP12 **£42.77**  
PSDFKP08 **£69.00**



### PUMP FITTINGS

Used to connect a pressure switch (as above) on to the system, allows installation of pressure gauge, pressure vessel and other pump control items on to a system.

3 way connector 1" x 1" x 1"  
5 way connector 1" x 1" x 1" x 1/4" x 1/4"

PUMPCONN3 **£8.87**  
PUMPCONN5 **£5.60**



### PRESSURE GAUGES

65mm, 1/4" male BSP bottom entry, glycerine filled, stainless steel back. Also available in back entry and with rubber cover.

63mm diameter pressure gauge 0-7 bar  
63mm diameter pressure gauge 0-11 bar  
63mm diameter pressure gauge 0-14 bar

GAUGEBCBTM007 **£11.74**  
GAUGEBCBTM011 **£11.74**  
GAUGEBCBTM014 **£11.74**



### ROLLERBALL FLOAT SWITCH

A double acting top quality Fox roller-ball switch with H05RNF cable and weight.

Roller Ball Float c/w 10m cable  
Roller Ball Float c/w 20m cable

ROLL10M-FOX **£33.78**  
ROLL20M-FOX **£43.55**





## Pressure Vessels



### FLEXIBLE BRAIDED HOSE

Braided galvanised steel pipe with internal rubber tube, 10 bar rated. Ideal for connecting pressure vessel back to mainline pipe work.

1" x 200mm  
1" x 440mm with bend  
1" x 450mm  
1" x 700mm

LOWFLEX200 £45.00  
LOWFLEX440 £57.00  
LOWFLEX450 £55.00  
LOWFLEX700 £87.00



### LOWARA PRESSURE VESSELS

Lowara pressure vessel come in a large range of sizes from 5 to 1000 litres. They are available in either vertical or horizontal orientation.

Max pressure rating 10 bar, max temp 99°. Supplied in blue with stainless steel flanges. Approved for use with potable water. 16 bar also available.

*Please do not hesitate to call the team for technical advice or vessel sizing.*

MODEL	CAP LITRES	CONN SIZE	MAX (Bar)	DIAM mm	HEIGHT mm	LENGTH mm
LOW8LV	8	¾"	10	200	321	•
LOW24LV	24	1"	10	362	355	•
LOW60LV	60	1"	10	380	860	•
LOW80LV	80	1"	10	450	800	•
LOW100LV	100	1"	10	450	960	•
LOW200LV	200	1½"	10	550	1280	•
LOW300LV	300	1½"	10	630	1430	•
LOW24LH	24	1"	10	270	•	480
LOW60LH	60	1"	10	415	•	640
LOW80LH	80	1"	10	415	•	680
LOW100LH	100	1"	10	488	•	781
LOW200LH	200	1½"	10	555	•	1079

LOWPVV008 £59.00  
LOWPVV024 £93.00  
LOWPVV060 £254.00  
LOWPVV080 £315.00  
LOWPVV100 £392.00  
LOWPVV200 £650.00  
LOWPVV300 £776.00  
LOWPVH024 £93.00  
LOWPVH060 £254.00  
LOWPVH080 £315.00  
LOWPVH100 £392.00  
LOWPVH200 £650.00

### GRUNDFOS PRESSURE VESSELS

The Grundfos GT range of pressure vessels are available in sizes from 8 to 3000 litres. Smaller tanks are of the GT-H type (8 to 80 litres) with a single butyl diaphragm. Medium tanks are of the GT-D type (100 to 300 litres) and anything larger is of the GT-U type which have a replaceable bladder and are nitrogen filled. Very low maintenance.

Max pressure rating 10 bar, max temp 90°. Supplied with stainless steel flanges. Approved for use with potable water.



MODEL	CAP LITRES	CONN SIZE	MAX (Bar)	DIAM mm	HEIGHT mm
GT-H-8V	8	¾"	10	202	303
GT-H-12V	12	¾"	10	244	366
GT-H-18V	18	¾"	10	279	367
GT-H-24V	24	1"	10	289	447
GT-H-33V	33	1"	10	289	584
GT-H-60V	60	1"	10	397	557
GT-H-80V	80	1"	10	397	755
GT-D-100V	100	1"	10	406	874
GT-D-130V	130	1"	10	406	1086
GT-D-200V	200	1"	10	533	929
GT-D-240V	240	1"	10	533	1201
GT-D-300V	300	1"	10	533	1488
GT-H-24H	24	1"	10	289	447
GT-H-60H	60	1"	10	389	532
GT-H-80H	80	1"	10	389	730

GFOSGTHV008 £52.00  
GFOSGTHV012 £67.00  
GFOSGTHV018 £70.00  
GFOSGTHV024 £75.00  
GFOSGTHV033 £136.00  
GFOSGTHV060 £224.00  
GFOSGTHV080 £262.00  
GFOSGTDV100 £311.00  
GFOSGTDV130 £421.00  
GFOSGTDV200 £574.00  
GFOSGTDV240 £617.00  
GFOSGTDV300 £702.00  
GFOSGTHH024 £69.00  
GFOSGTHH050 £179.00  
GFOSGTHH080 £290.00



## Pump Accessories



### FLOATING SUCTION

Designed for use with pumps installed within rainwater harvesting, river or lake extraction system. Allows the pump to 'suck' the cleaner water from higher levels within a tank, river or lake, without sucking debris or sediment from the bottom. Floating ball diameter 15cm. Strainer is 1.2mm with a non-return valve and brass hosedetail.

1"	3PFLOATSUC025	£39.69
1¼"	3PFLOATSUC032	£50.31
1½"	3PFLOATSUC040	£70.17



### SUCTION AND DISCHARGE HOSE

Medium duty Green PVC ribbed suction/discharge hose 0 - 6 bar.  
Price per metre.

1"	HOSEMD5025	£1.50
1¼"	HOSEMD5032	£2.08
1½"	HOSEMD5040	£2.54
2"	HOSEMD5050	£3.58
3"	HOSEMD5080	£6.30

NB. Suction hose should be secured with Mikalor clips, please see table below for sizing and page 11

Hose Type	Size	Jubilee Clip	Size	Mikalor Clip	Size
MDS Hose	1"	NA	NA	MIKSS031034	31-34mm
	1¼"	NA	NA	MIKSS037040	37-40mm
	1½"	NA	NA	MIKSS043047	43-47mm
	2"	NA	NA	MIKSS060063	60-63mm
	3"	NA	NA	MIKSS085091	85-91mm



### HANSEN HOSETAIL

GRN Hosedetail to Male BSP

BSPM	Hose		
1"	1"	HANHTM025	£2.54
1¼"	1¼"	HANHTM032	£3.80



### BRASS HEXAGON HOSETAIL

Hosedetail to Male BSP

BSPM	Hose		
1"	1"	HEXHOSE025	£5.00
1¼"	1¼"	HEXHOSE032	£7.16
1½"	1½"	HEXHOSE040	£13.54



### BRASS SPRING LOADED NON RETURN VALVE

For horizontal or vertical installation in pipeline

¾"	NRVSPR020	£8.40
1"	NRVSPR025	£11.30
1¼"	NRVSPR032	£17.80



### FOOT VALVE STRAINER

Stainless steel mesh strainer for use with above as a foot valve

¾"	STRAIN020	£2.25
1"	STRAIN025	£2.79
1¼"	STRAIN032	£3.24
1½"	STRAIN040	£3.69



### HANSEN GRN FOOT VALVE & STRAINER

Hansen top quality 16 bar rated high efficiency foot valve & strainer

**NEW !**

1"	HANFV025	£20.77
1¼"	HANFV032	£31.31
1½"	HANFV040	£39.28
2"	HANFV050	£57.33



### LEENGATE PREMIUM ADJUSTABLE PRESSURE RELIEF VALVE

Top Quality. Spring adjustable from 1 - 5 Bar

½"	PRVL015	£54.61
¾"	PRVL020	£67.76
1"	PRVL025	£85.75
1¼"	PRVL032	£111.58
1½"	PRVL040	£145.39

Spring adjustable from 5 - 9 Bar

¾"	PRVL020HP	£67.76
1"	PRVL025HP	£85.75



### STANDARD ADJUSTABLE BRASS PRESSURE RELIEF VALVE

Spring adjustable from 2-9 Bar

½"	PRV015	£29.20
¾"	PRV020	£41.40
1"	PRV025	£55.80
1¼"	PRV032	£80.30
1½"	PRV040	£106.50



### BERMAD VACUUM BREAKER

1/2" BSP Male Thread. Large air passage, high resistance to chemicals, smooth reliable operation. 10 Bar maximum working pressure.

VACUMBREAK015 £3.70

## Otterbine Fractional Aerators

### Pond & Lake Water Quality Management

The best way to find a solution to your water quality problems is to obtain a better understanding of the components that impact the delicate balance of a pond's ecosystem. From a lake manager's perspective the most significant factors are: light and temperature, nutrients, and oxygen.

### Light & Temperature

Sunlight is of major significance to lake dynamics as it's the primary source of energy. Most of the energy that controls the metabolism of a lake comes directly from the solar energy utilized in photosynthesis. Shallow bodies of water less than 9ft or 3m in depth more commonly experience problems such as bottom-rooted weeds or benthic algae and need additional consideration when determining the correct water management solution.

*As water temperature increases, the water's capacity to hold oxygen decreases.* Water at 52° Fahrenheit (11° Celsius) can hold over 40% more oxygen than water at 80° Fahrenheit (27° Celsius.)

### Nutrients

The second essential factor is the impact of nutrients on the aquatic ecosystem. There is a direct correlation in the level of available nutrients and the populations of algae and aquatic weeds. Phosphorus has been identified as the single greatest contributor to aquatic plant growth; one gram of phosphorous will produce one hundred grams of algal biomass. The three most common sources of nutrient introduction are: bottom silt and dead vegetation in the lake, runoff water from surrounding turf areas, and the sources of incoming water.

### Oxygen

The third essential factor is the role oxygen plays. Oxygen is important to all forms of life in the lake, and supports the food chain including the natural decomposition process. A lake is supplied with oxygen from several sources but primarily through photosynthesis, wave and wind action. Immediate reactions to oxygen depletion would be fish kills or odours. Long term issues include nutrient build up, sludge accumulation, and a chemical imbalance in the lake. Oxygen depletion or stress situations occur for different reasons.

### In Conclusion

Balance is critical to the aquatic ecosystem, without it your pond or lake will suffer. There are many steps that can prevent an imbalance from occurring, and knowing the causes will assist in determining the best solution. Some methods include proper pond construction, chemical applications, and the addition of oxygen through aeration systems and devices.

*Source: Otterbine Pond & Lake Water Quality Management*

### OTTERBINE FRACTIONAL AERATORS

The Otterbine ½ HP Fractional Aerating Fountain and Mixer Series comes complete with 5 systems within 1 unit. Four interchangeable fountain patterns (Gemini, High Volume, Rocket and Phoenix) and a horizontal Mixer. Ready to install 'out of the box' it has been designed with the small pond owners needs in mind, the Fractional Aerating Fountain is aesthetically pleasing, it is highly versatile and will take care of all of your water management needs. These units are ideally used in ponds no larger than ½ acre in size.

- Cost Effective - the small horsepower systems consumes lower amounts of energy giving a low running cost. Running current only 2.8 amps.
- Provides Natural & Effective Water Quality Solutions - Introduces oxygen into the water column for the most natural solution for water quality management, effectively controlling algae, aquatic weeds and foul odours
- Shallow Operating Depths - Operates within depths of as little as 400mm
- Corrosion Resistant - Constructed from Stainless Steel and Thermoplastic components making it suitable for brackish and effluent conditions
- Proven Performance - Independent tests on oxygen transfer and pumping rates with all results published on their aeration systems
- Complete Package - Shipped assembled (as Gemini unit) with all components for the 5 systems and debris screen. 220/240v 50Hz Single Phase.
- Comprehensive Warranty - All inclusive 2-year warranty on unit, cable
- Cable & Control box are **not** included
- Optional unit available complete with 5 nozzles and 3 light LED package

Otterbine Fractional ½ HP c/w 5 Nozzles  
Otterbine Fractional ½ HP c/w 5 Nozzles & Lights

OTTFRAC-0014 **£1824.70**  
OTTFRAC-0014049 **£2643.50**

Pattern	Spray Height	Spray Diameter	Min Depth	Weight
High Volume	1.0m	1.4m	0.40m	25kg
Phoenix	L:1.0m U:2.8m	L:3.0m U:0.3m	0.40m	25kg
Rocket	3.0m	0.4m	0.40m	25kg
Gemini	1.2m	1.8m	0.40m	25kg

*Cable and control panels can be supplied separately according to requirements*

## Water Filters

To ensure trouble free operation of an irrigation system with various types of water supply the correct filtration should be considered. There are two common options, screen elements (good for sand and foreign bodies) or disc elements (best suited for algae and organic matter). Recommended sizes as per table below.

Irrigation Type	Mesh Size (No. Hole per Inch)	Size Microns (μ)	Size Millimetres (mm)
Lawn Sprinklers	30	500	0.5
Lawn Sprays	50	300	0.3
Micro Sprays	75	200	0.2
Drip Irrigation	155	100	0.1



### RAIN BIRD PRESSURE-REGULATING FILTER

Pressure-Regulating filter combines and pressure regulator (preset depending on model). Ideal to use for micro sprays or drip irrigation. Male BSP threads.

PRF ¾" 75 micron 2.0 bar	RBPRF075RBY	<b>£16.40</b>
PRF 1" 75 micron 2.8 bar	RBPRF100RBY	<b>£18.80</b>
Replacement Screen 75 micron	RBBY200MX	<b>£7.70</b>



### RAIN BIRD LARGE CAPACITY FILTERS

The Rain Bird large capacity filters are ideal for use throughout a low volume or drip irrigation system. Easy maintenance and one filtration option at 130 micron makes them easy to use as a complete system filter or for individual zones. Maximum pressure 8 bar available with disc or screen elements.

¾" 130 micron mesh element	RBFIL075S130	<b>£8.40</b>
¾" 130 micron disc element	RBFIL075D130	<b>£10.50</b>
1" 130 micron mesh element	RBFIL100S130	<b>£8.40</b>
1" 130 micron disc element	RBFIL100D130	<b>£10.50</b>
1½" 130 micron mesh element	RBFIL150S130	<b>£25.00</b>
1½" 130 micron disc element	RBFIL150D130	<b>£31.30</b>
2" 130 micron mesh element	RBFIL200S130	<b>£26.90</b>
2" 130 micron disc element	RBFIL200D130	<b>£35.20</b>

### AMIAD PREMIUM FILTERS

The Amiad Premium Filters are ideal for use throughout an irrigation system. Easy maintenance and interchangeable elements means you can adapt the filters to suit all aspects of your irrigation system. Maximum pressure 8 bar. Units with screen elements come with a drain off valve.

¾" Amiad Filter; Maximum flow rate 3m³/h	¾" 100 micron mesh element	AMFIL020M100	<b>£29.28</b>
	¾" 200 micron mesh element	AMFIL020M200	<b>£29.28</b>
	¾" 500 micron mesh element	AMFIL020M500	<b>£29.28</b>
1" Amiad Filter; Maximum flow rate 7m³/h	1" 100 micron disc element	AMFIL025D100	<b>£59.32</b>
	1" 250 micron disc element	AMFIL025D250	<b>£59.32</b>
	1" 100 micron mesh element	AMFIL025M100	<b>£64.68</b>
	1" 200 micron mesh element	AMFIL025M200	<b>£64.68</b>
	1" 500 micron mesh element	AMFIL025M500	<b>£64.68</b>
1½" Amiad Filter; Maximum flow rate 15m³/h	1½" 100 micron disc element	AMFIL040D100	<b>£131.88</b>
	1½" 250 micron disc element	AMFIL040D250	<b>£131.88</b>
	1½" 100 micron mesh element	AMFIL040M100	<b>£132.00</b>
	1½" 200 micron mesh element	AMFIL040M200	<b>£132.00</b>
	1½" 500 micron mesh element	AMFIL040M500	<b>£132.00</b>

### AMIAD TAGLINE FILTER

The Amiad Tagline Filters are ideal for use as individual zones filters for either micro sprays or drip irrigation. Fixed 130 micron mesh screen filters.

Tagline ¾" 3 m³/h max flow rate	AMTAG020M120	<b>£10.20</b>
Tagline 1" 7 m³/h max flow rate	AMTAG025M120	<b>£11.16</b>
Tagline 1½" 15 m³/h max flowrate	AMTAG040M120	<b>£63.60</b>



## Rainwater Harvesting Filters

The selection of the correct filter or diverter will normally depend on the size of your roof area, however for simple diversion on guttering downpipes the Filter Collector FS is ideal.

On larger projects the Garden Filter will cope with roof areas up to 200m<sup>2</sup> and the Volume Filter up to 450m<sup>2</sup>. Both units can be installed within the top of the tank, however they are large units and general access for other components such as submersible pumps can prove tight. On this basis we would normally recommend they be installed direct buried by opting for the 'Filters with extension'.

When routing clean rainwater from the filter to the underground tank this should be introduced into the tank via a downpipe with a calmed inlet on the bottom, this ensures that settled debris on the bottom of the tank is not disturbed. An overflow to the normal drainage system or soakaway should always be in place, this ensures a continual turnover of water within the tank when at high level.



### FILTER COLLECTOR FS

Filters and collects rainwater for storage in water butts and tanks. This filter is installed with a self cleaning 0.315mm stainless steel sieve filter with overflow function. Suitable for round and square down pipes up to 110mm. Complete with adaptor and reducing sets to fit to 3/4" or 1 1/4" mm hose. With two positions for winter and summer use. Black in colour (but also available in brown and grey)

3PFILCOLBLCK **£38.74**



### RAINUS FILTER

Filters and collects rainwater for storage in water butts and tanks. This unique filter works in the opposite way to most filters, all the debris and leaves are ejected from the side with the clean water continuing down the downpipe.

3PRAINUS **£97.67**



### GARDEN FILTER

For roof areas up to 200m<sup>2</sup>. Can be installed within the storage tank or direct buried (if ordered with extra extension and lid below). Debris collects in 1mm mesh basket filter and removal handle makes cleaning quick and easy. All connections are 110mm. Approx. 390mm diameter, 515mm height.

3PGARDENFILTERPB **£174.44**  
3PGARDENFILTERSB **£244.47**



### VOLUME FILTER

For roof areas up to 450m<sup>2</sup> with 2 stage filtering system, first a cascade to remove leaves and other large particles then a 0.55mm mesh sieve filter to remove small debris. Filter debris then passes to the sewer outlet. Unit is frost resistant and self cleaning for low maintenance. Made from PE and stainless steel, can be installed within the tank or below ground with extension (see below). Height difference between inlet and outlet 300mm. Unit approx. 390mm diameter, 415mm height.

3PVOLUME-FILTERVF1 **£294.84**



### FILTERS WITH EXTENSION

Extension lid for deep installations fits Garden Filter and Volume Filter. Designed for direct burial. Diameter 390mm Height 500mm. As a complete unit with Garden or Volume filter. Max. installation depth 750mm.

3PGARDENFILTERPBEXT **£218.67**  
3PVOLUMEFILTERVF1EXT **£334.15**



### OVERFLOW SIPHON UNO

Installed directly in the tank. With a screw-threaded union connector ideal to be installed through plastic tank walls. Design also incorporates rodent and odour barrier for optimum tank water quality.

3POVERUNO **£53.01**



### REWATEC MAXI PLUS FILTER

The Rewatec Maxi Plus filter is designed with inlet and outlet at the same level, making it ideal for site with a small difference in levels. For roof areas up to 500m<sup>2</sup>. Filtering is done by a combination settlement to remove leaves and other larger particles and a 0.5mm stainless steel mesh filter screen to remove smaller suspended particles. Supplied with a pedestrian duty lid. Extensions available for deeper installations.

REWFILMAXIPL **£324.24**  
REWFILEXT **£85.31**

## Poly Tanks

*All water storage tanks are to be installed as per manufacturers instructions and failure to do so will void any warranty held with the tank manufacturer.*

*Installation instructions are provided with each tank., PDF versions can be emailed in advance upon request.*



### 3P WALL TANK

This highly durable , premium quality water storage tank is ideal for small domestic irrigation and rainwater harvesting systems. Price includes delivery.

- Capacity: 800 litres
- Dimensions: Height 1790mm, Width 800mm, Depth 600mm
- Pre-installed ¾" Female BSP outlets
- UV stable to reduce algae build-up
- Metal wall strap for increased tank stability
- Easily converted to harvesting system if installed near a gutter down pipe
- Can connect multiple tanks together increasing storage capacity (tank connection kit required)

Green  
Grey  
Sandstone  
Black

3PWALLTANK-GRN **£408.24**  
3PWALLTANK-GRY **£408.24**  
3PWALLTANK-SND **£408.24**  
3PWALLTANK-BLK **£408.24**



### SLIMLINE POLY WATER TANKS

Manufactured in the UK from the most up to date moulding equipment and processes, these smart black poly water tanks are ideal for storing water for small irrigation systems.

- Pre-installed ¾" or 1" Female BSP outlet (model dependant)
- UV stabilised & Maintenance Free
- Pre-installed 8" round access



Slimline versions are ideal for installations with restricted space. Can easily be installed in plant rooms and behind sheds or garages, giving maximum capacity for the minimum tank footprint. Round tanks are cheaper to manufacture so therefore offer a slightly lower cost per litre of water storage.

Tank Code	Capacity (gallons)	Capacity (litres)	Dimensions H x W x L (mm)	Del Charge
<b>Tower 210</b>	46.2	210	920 x 420 x 630	POA
<b>Slimline 500</b>	110	500	1050 x 500 x 1200	POA
<b>Slimline 1000</b>	220	1000	1200 x 600 x 1650	POA

WYDSL0210TOW **£137.00**  
ENDSLBK00500 **£213.00**  
ENDSLBK01000 **£345.00**



### ROUND WATER STORAGE TANKS

Rotationally moulded one piece water storage tanks provide a seamless unit that is environmentally sensitive and cost effective for irrigation use.

- Tough and durable UV stabilised polyethylene
- Corrosion resistant & ribbed design provides added strength
- Lightweight and easy to handle plus maintenance free
- 1½" or 2" pre-fitted BSP female tank outlet (size dependant)
- Tanks also available for potable water use (with WRAS Approval)
- Larger sizes available up to 30,000 litres

Tank Code	Capacity (gallons)	Capacity (litres)	Dimensions Diameter x H	Delivery
<b>V1250</b>	274	1250	1200 x 1200	POA
<b>V2000</b>	549	2000	1200 x 1900	POA
<b>V2500</b>	549	2500	1400 x 1800	POA
<b>V3000</b>	659	3000	1400 x 2135	POA
<b>V4000</b>	879	4000	1900 x 1650	POA
<b>V5000</b>	1098	5000	1900 x 1960	POA
<b>V6000</b>	1318	6000	1900 x 2500	POA
<b>V7000</b>	1538	7000	2400 x 1820	POA
<b>V10000</b>	2200	10000	2400 x 2500	POA
<b>V12000</b>	2637	12000	2600 x 2600	POA

ENDVBK01250 **£305.00**  
ENDVBK02000 **£347.00**  
ENDVBK02500 **£383.00**  
ENDVBK03000 **£598.00**  
ENDVBK04000 **£658.00**  
ENDVBK05000 **£807.00**  
ENDVBK06000 **£1017.00**  
ENDVBK07000 **£1077.00**  
ENDVBK10000 **£1340.00**  
ENDVBK12500 **£1808.00**



# Underground Tanks

## CONSIDERATIONS FOR UNDERGROUND TANKS

Always request and read the specific manufacturers installation notes before deciding on a tank. These not only inform of the practical considerations before installation but also important health and safety issues. If the project is located in a wet area with questions over ground water levels, always consult a structural engineer (If a tank is installed incorrectly it is likely to rise out of the ground and will not be covered by any manufacturers warranties).

Consider access and offloading, you will have to provide the men or machinery to offload, including suitable straps or ropes. If the tank is sited under vehicular traffic, it will require a heavy duty access cover and additional structural support.

All GRP tanks will require either a concrete base or concrete base and jacket, but this will depend on tank type. The pouring of mass concrete will require a water level to be maintained within the tank at the same level as the backfill to prevent floating. GRP tanks are available in a Class 1 Shell which are stronger and do not need a concrete jacket, only a granular backfill on dry sites, call for pricing.

Some ranges of underground poly and GRP tanks state that they do not always require a concrete backfill, however this will depend on site conditions. If the tank is to be installed in a wet site where groundwater may be a problem suitable drainage will be required to discharge the groundwater. The overflow from the tank will need to be routed to the existing storm drain or suitable soak-away.

### BALMORAL HYDROSTORE

Balmoral Hydrostore underground water storage tanks are designed for easy installation on sites with restricted access for large excavators. They are an ideal alternative to an above ground tank for any small to medium sized residential irrigation system.

- Flat and easy for installation
- Seamless one piece mouldings eliminates on-site assembly
- Requires only a small amount of the usual excavation associated with underground tanks and produce much less spoil than conventional round tanks.
- Installation depths will be 1.0 - 1.5m
- Does not normally require a concrete backfill (see installation instructions)
- Pre-Installed with 110mm inlet and outlet/overflow ready to 'knock-out' for easy and fast installation
- Calmed inlet and filter pre-installed (optional please order code with 'F' for this filter tank version)
- 600mm access turret with pedestrian duty manhole cover
- Modular design allows multiple tanks to be connected with pre installed 2" BSP Tank fitting on each tank.

Tank Code	Capacity (gallons)	Capacity (litres)	Dimensions L x W x H (mm)	Delivery
<b>1500/1500F</b> (F = with filter)	330	1500	2310 x 1160 x 1240	POA
<b>2900/2900F</b> (F = with filter)	638	2900	2310 x 2310 x 1240	POA

BRMHYDRO1500 **£864.00**  
 BRMHYDRO1500F **£1246.00**  
 BRMHYDRO2900 **£1174.00**  
 BRMHYDRO2900F **£1601.00**

Please note that the height dimension **does** include the shaft. Please see individual tank drawings

### GRP WATER STORAGE TANKS

GRP underground non-potable water storage tanks. Ideal for installation within a medium to large residential irrigation system.

- Pre-fitted 110mm inlet and outlet and lifting eyes
- All tanks are supplied with 1m turret
- There is **not** a filter, calmed inlet or overflow supplied with these tanks

Tank Code	Capacity (gallons)	Capacity (litres)	Dimensions Diameter x Height	Delivery Charge
<b>GRPCPLS02800</b>	616	2800	1750 x 2785	POA
<b>GRPCPLS03800</b>	836	3800	1940 x 3000	POA
<b>GRPCPLS04600</b>	1012	4600	2050 x 3100	POA

GRPCPLS02800 **£660.00**  
 GRPCPLS03800 **£864.00**  
 GRPCPLS04600 **£1017.00**





## Underground Tanks



### REWATEC F-LINE TANKS - (TO BE REPLACED BY NEO RANGE)

Rewatec F-Line low profile underground water storage tanks are designed for easy installation on sites with restricted access for large excavators. They are ideal for all rainwater harvesting systems and as an alternative to an above ground tank on small to medium sized residential irrigation system.

- Flat and easy for installation
- Requires only a small amount of the usual excavation and create smaller quantities of spoil associated with underground tanks (up to 60% less)
- Installation depths will be 1.0 - 1.5m
- Do not normally require a concrete backfill (see installation instructions)
- Pre-Installed with 110mm inlet and outlet/overflow ready to 'knock-out'
- Built-in filter (**optional use code with 'F' for filter version**)
- 600mm access hatch (turret and cover supplied separately)
- Built-in pump sump to maximize storage capacity.

Tank Code	Capacity (gallons)	Capacity (litres)	Dimensions L x W x H (mm)	Delivery
<b>FL1500</b> (F = with filter)	330	1500	2400 x 1200 x 650	POA
<b>FL3000</b> (F = with filter)	660	3000	2400 x 2400 x 650	POA
<b>FL5000</b> (F = with filter)	1100	5000	2960 x 2220 x 880	POA
<b>FL7500</b> (F = with filter)	1650	7500	3340x2310x1125	POA

REWFL01500	<b>£957.18</b>
REWFL01500F	<b>£1189.23</b>
REWFL03000	<b>£1478.13</b>
REWFL03000F	<b>£1710.10</b>
REWFL05000	<b>£1964.33</b>
REWFL05000F	<b>£2196.38</b>
REWFL07500	<b>£2368.98</b>
REWFL07500F	<b>£2601.03</b>

Please note that the height dimension **does not** include the shaft or pump basin measurements.



### REWATEC TURRET

All turrets are 600mm diameter, 2 sizes available dependant on installation depth.

VS-20	250mm	REWTTVS20	<b>£89.00</b>
VS-60	635mm	REWTTVS60	<b>£154.00</b>



### REWATEC TANK COVER

Robust PE double walled pedestrian duty tank cover. cover

Pedestrian	REWTCP600	<b>£74.00</b>
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### REWATEC NEO TANKS

The NEW range of Rewatec NEO low profile underground water storage tanks are designed for easy installation on sites with restricted access for large excavators. They are ideal for all rainwater harvesting systems and as an alternative to an above ground tank on small to medium sized residential irrigation system.

- Low profile circular shape for easy handling and installation
- 35% Lighter and 35% more stability
- More Eco friendly as uses 35% less recycled material than F Line tanks
- Requires only a small amount of the usual excavation and create smaller quantities of spoil associated with underground tanks (up to 60% less)
- Installation depths will be 1.0 - 1.5m
- Do not normally require a concrete backfill (see installation instructions)
- Tank warranty of 35 years
- Pre-Installed with 110mm inlet and outlet/overflow ready to 'knock-out'
- Built-in filter within turrett (**optional use code with 'F' for filter version**)
- 600mm access hatch (turret and cover supplied separately)
- Additional vehicular extensions and covers available for driveway applications
- Larger sizes up to 20,000 litres available as special order

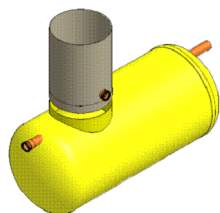
**NEW !**



Tank Code	Capacity (gallons)	Capacity (litres)	Dimensions L x W x H (mm)	Delivery
<b>NEO3000</b> (F = with filter)	660	3000	2340 x 2340 x 1047	POA
<b>NEO5000</b> (F = with filter)	1100	5000	3400 x 2320 x 1120	POA
<b>NEO8000</b> (F = with filter)	1777	8000	4420 x 2300 x 1260	POA

REWNEO03000	<b>£1489.00</b>
REWNEO03000F	<b>£1710.10</b>
REWNEO05000	<b>£2078.00</b>
REWNEO05000F	<b>£2411.00</b>
REWNEO08000	<b>£3047.00</b>
REWNEO08000F	<b>£3381.00</b>

## GRP Underground Tanks



### GRP RAINHARVESTING TANKS

GRP underground rainwater harvesting tanks are ideal for storing larger amounts of rainwater for use within garden & commercial irrigation schemes.

- Supplied with connections pre-fitted including 110mm calmed inlet and 110mm trapped overflow.
- These tanks **do not** include a rainwater harvesting filter or manhole cover
- All tanks are supplied with a 1m invert (turret) and this is the maximum depth recommended for burial (ie, 1m below the manhole cover).
- These tanks require a concrete back fill (please refer to the manufacturers installation instructions for full details)
- Higher grade tanks (suitable for a granular back fill) are available on request
- Delivery included but not off loading
- The complete range of GRP rainharvesting tanks can be supplied with rain water filters pre-installed within the turret, please call for details & pricing.

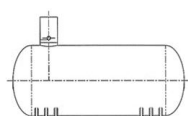
Tank Code	Capacity (gallons)	Capacity (litres)	Dimensions Diameter x Length (mm)	Delivery Charge
GRP RWH 2000	440	2000	1000 x 2713	Incl.
GRP RWH 3000	660	3000	1200 x 2853	Incl.
GRP RWH 4000	880	4000	1200 x 3737	Incl.
GRP RWH 6000	1320	6000	1500 x 3636	Incl.
GRP RWH 8000	1760	8000	1500 x 4768	Incl.
GRP RWH 10000	2200	10000	1500 x 5900	Incl.
GRP RWH 12000	2640	12000	1800 X 5015	Incl.
GRP RWH 16000	3520	16000	1800 x 6500	Incl.
GRP RWH 20000	4444	20000	2500 x 4525	Incl.

GRPRWH02000	<b>£1338.00</b>
GRPRWH03000	<b>£1476.60</b>
GRPRWH04000	<b>£1703.00</b>
GRPRWH06000	<b>£1953.00</b>
GRPRWH08000	<b>£2330.00</b>
GRPRWH10000	<b>£2763.00</b>
GRPRWH12000	<b>£3046.00</b>
GRPRWH16000	<b>£3611.00</b>
GRPRWH20000	<b>£4167.00</b>

### GRP UNDERGROUND WATER STORAGE TANKS

GRP underground bare storage tank. Ideal for storing large amount of water underground for use with an irrigation system

- Tanks are manufactured to BS4994.
- All tanks are supplied with 1m turret and pedestrian duty manhole cover.
- There is **not** a filter, calmed inlet or overflow supplied with these tanks.
- Class 2 tanks requiring concrete back fill (please refer to the manufacturers installation instructions for full details)
- Class 1 (granular back fill) available on request
- Delivery included but not off loading



Tank Code	Capacity (gallons)	Capacity (litres)	Dimensions Diam x Length (mm)	Delivery Charge
GRP CPL 1	220	1000	1000 x 1440	Incl.
GRP CPL 2	440	2000	1200 x 1969	Incl.
GRP CPL 3	660	3000	1200 x 2853	Incl.
GRP CPL 4	880	4000	1500 x 2504	Incl.
GRP CPL 6	1320	6000	1500 x 3636	Incl.
GRP CPL 8	1760	8000	1500 x 4768	Incl.
GRP CPL 10	2200	10000	1500 x 5900	Incl.
GRP CPL 14	3111	14000	1800 x 5801	Incl.
GRP CPL 18	4000	18000	2500 x 4117	Incl.
GRP CPL 20	4444	20000	2500 x 4524	Incl.
GRP CPL 25	5555	25000	2500 x 5543	Incl.

GRPCPL01000	<b>£1101.60</b>
GRPCPL02000	<b>£1330.20</b>
GRPCPL03000	<b>£1600.20</b>
GRPCPL04000	<b>£1751.40</b>
GRPCPL06000	<b>£2088.00</b>
GRPCPL08000	<b>£2430.00</b>
GRPCPL10000	<b>£2518.20</b>
GRPCPL14000	<b>£3079.62</b>
GRPCPL18000	<b>£3256.20</b>
GRPCPL20000	<b>£3688.00</b>
GRPCPL25000	<b>£4087.26</b>

## Tank Accessories



### HIGH PRESSURE BALL VALVES

Used for taking a mains water feed into the water tank on an irrigation system. For use on **above ground tanks** only. High pressure ball valves are not supplied with float. Please see below for float options. Part 2 units with drop arm and equilibrium type valves also available from stock, please call for details.

1/2"  
3/4"  
1"

FLOATHP015	£5.35
FLOATHP020	£14.70
FLOATHP025	£46.20



### DROP ARMS FOR HIGH PRESSURE BALL VALVES

These brass drop arms allow the vertical extension of standard high pressure ball valves which allow you to create a larger differential between water inlet and overflow level within a tank. Has adjustable slider thereby, with correct positioning of the overflow achieve the appropriate air gap to meet regulations.

18" Arm with 5/16" slider thread for most 1/2" & 3/4" valves  
18" Arm with 3/8" slider thread for most 1" valves  
21" Arm with 9/16" slider thread for most 1 1/2" valves

**NEW !**

FLOATDRP18A516	£44.76
FLOATDRP18B038	£44.76
FLOATDRP18C916	£69.36



### PLASTIC FLOATS

For use with high pressure ball valves above. Screws directly onto the ball valve arm.

4 1/2" diam. for 1/2"  
6" diam. for 3/4"  
8" diam. For 1"

FLOATPL01	£0.94
FLOATPL02	£3.78
FLOATPL03	£19.82



### QUICKSTOP FLOW REGULATOR

Work with the same principals as the high pressure ball valves. Quick stops are ideal for use with pressurized pump supplies filling water tanks. Designed to instantly shut-off, stopping the flow, unlike ball valves which gradually squeeze off. Not WRAS approved.

3/4"  
1"

FLOATQUICK-STOP020	£17.01
FLOATQUICK-STOP025	£18.14



### HANSEN MAXFLO VALVE

The Hansen Max-Flo valves are manufactured to the highest standard, with multiple thread connections and a self cleaning pilot to ensure reliable operation. These will also work with clean or dirty water and at high or low pressures. Not WRAS approved.

3/4"  
1"

HANMFDV020	£40.97
HANMFDV025	£40.97



### LEVEL CONTROL PANEL

This robust unit comes complete with transformer, rollerball float switch or probe module, hand off auto (HOA), power and run lights and connection for a WRAS approved brass solenoid valve. When used in conjunction with tundish this is ideal for mains water top up to an underground tank. Cable to solenoid and float switch are low voltage, main box with transformer requires 230V supply. (for specific information on correct installation call our technical team).

Float Control Panel  
Probe Control Panel

LEVELCON000	£247.19
LEVELCONPROBE	£292.28



### SIRAI BRASS SOLENOID VALVES

WRAS approved 24VAC solenoid valves are used in conjunction with the level control panel above. Also available in larger sizes and with 230v solenoid coils

1/2"  
3/4"  
1"

SOLVALSIRAI015	£55.68
SOLVALSIRAI020	£71.28
SOLVALSIRAI025	£109.56



### TUNDISH

Used when an air gap is required to conform to water regulations, when topping up a storage tank. The tundish must be installed above ground, so that after passing through the unit the water transfers into the tank by gravity thereby preventing any possibility of water backflow. Made from polyethylene.

3/4" X 1" Angle Tundish

TUNDISHAN-GLE020025	£11.65
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### BACK UP IN A BOX

This unit houses the complete tank top up kit with roller ball float switch, solenoid valve and integral tundish, automatically topping up any rainwater harvesting tank with mains water to the desired level. Max refill rate only 240 litres per hour.

Back-up in a Box

LEVELCONBIB015	£243.00
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## Tank Accessories



### 3P CALMED INLET

Positioned at the bottom of the tank via a 110mm down pipe from the inlet. This will allow water to enter the tank and not disturb any of the settled sediment at the bottom. Made from polyethylene. Receives pipe size 110mm - 125mm.

3PCALMEDINLET £23.62



### PNEUMATIC LEVEL GAUGE

This simple device measures the stored water level in your tank remotely. The gauge works pneumatically so measures the water pressure near the bottom of the tank and displays a filled percentage on the gauge dial. Can be set to measure a tank depth of between 1 and 3 metres. Supplied with 10m of micro pipe but can be extended up to a maximum of 50m with extension kit. Requires initial calibration upon installation.

3PLEVGAUGEPN £99.50

### HANSEN TANK CONNECTOR

Complete with thick quality rubber seals giving a professional finish for taking pipe work from within a tank to the outside. With male and female BSP threads, normally installed with the male thread within the tank.

1/2"

HANTANKCON-MF15 £4.35

3/4"

HANTANKCON-MF020 £4.80

1"

HANTANKCON-MF025 £5.80

1 1/4"

HANTANKCON-MF032 £8.74

1 1/2"

HANTANKCON-MF040 11.54

2"

HANTANKCON-MF050 £14.59



### PLASSON TANK CONNECTOR

Plasson 5168 tank connector male BSP male thread to male spigot end. Giving a professional finish to the transition of pipe work from inside to outside a tank.

3/4"

PLASS5168020 £15.14

1"

PLASS5168025 £22.09



### GALVANISED STEEL TANK OFF TAKES

Complete with all seals & spacers for fitting through the EDPM liner and Steel tank wall. Suitable for all steel sectional tanks.

2" Steel Off Take

STTANKCON050 £100.75

3" Steel Off Take

STTANKCON080 £128.96

4" Steel Off Take

STTANKCON100 £243.10



### STEEL TANK STRAINERS

Fitted on the inside of the tank stopping debris from entering the outlet pipe work from the tank.

2" Strainer

STSTRAINER050 £52.80

3" Strainer

STSTRAINER080 £107.36



### BALL VALVE TANK BRACKET

Attached to the wall of the tank allowing mains water top up without damaging the EDPM liner with another hole. Suitable for 3/4" and 1" equilibrium ball valves

STFIXBRACKET2 £32.24



### TANK LID

Ideal for adapting tanks without lids this unit provides a neat and tidy assembly when used with lid ring (as below). Tank lid diameter is 220mm.

Tank Lid 255mm

PPTANKLID255 £9.85



### TANK LID RING

For use with tank lid above. Tank lid ring access diameter is 220mm. When fitting to tank please cut a larger hole of 230mm. Secured with screws directly onto tank body.

Tank Lid Ring 255mm

PPTANKLIDRING £5.88

## Steel Tanks & Covers

### STEEL TANKS

Galvanised Steel Tanks designed to hold large quantities of water for irrigation, rainwater harvesting, recycling and industrial applications.



Requires assembly onto a concrete base and consists of steel corrugated sheets lined with a butyl (or similar) liner. Three choices of cover for the top, fully secure galvanised roof, PVC tarpaulin type sheeted cover or basic algae net.

- Constructed from corrugated galvanised sheets with pre-cut holes, thickness of 0.8mm - 2.0mm (depending on tank model)
- Available with galvanised or coloured finish (at additional cost)
- Wide range available from 2,000ltr - 1,800,000ltr capacity
- Open topped or complete with a choice of galvanised steel roofs and access hatches (optional)
- Anti Algae cover & PVC Sheet covers available as an extra
- Choice of tank liner material and thickness (please call for details)
- Supplied in kit form minimises transport costs
- Most tanks easily constructed with 2 people

*NB. A larger range of tank sizes and liner choices are available on request.*

Tank Code	Capacity (gallons)	Capacity (litres)	Dimensions Diameter x Length (ft)	Dimensions Diameter x Length (mm)	Price
STTKIT0903	2970	13500	9' x 7'6	2760 x 2280	£562.65
STTKIT0904	3960	18000	9' x 10'	2760 x 3040	£733.26
STTKIT1202	3520	16000	12' x 5'	3690 x 1520	£533.61
STTKIT1203	5280	22000	12' x 7'6	3690 x 2280	£762.30
STTKIT1204	7040	32000	12' x 10'	3690 x 3040	£994.62
STTKIT1502	5500	25000	15' x 5'	4610 x 1520	£666.11
STTKIT1503	8250	37500	15' x 7'6	4610 x 2280	£954.69
STTKIT1504	11000	55000	15' x 10'	4610 x 3040	£1176.12
STTKIT1802	7920	36000	18' x 5'	5530 x 1520	£787.71
STTKIT1803	11880	54000	18' x 7'6	5530 x 2280	£1132.56
STTKIT1804	15840	72000	18' x 10'	5530 x 3040	£1551.83
STTKIT2102	10780	49000	21' x 5'	6450 x 1520	£925.65
STTKIT2103	16170	73500	21' x 7'6	6450 x 2280	£1323.14
STTKIT2104	21560	98000	21' x 10'	6450 x 3040	£1811.37
STTKIT2402	14080	64000	24' x 5'	7370 x 1520	£1079.93
STTKIT2403	21120	96000	24' x 7'6	7370 x 2280	£1622.61
STTKIT2404	28160	128000	24' x 10'	7370 x 3040	£2188.89
STTKIT2702	17820	81000	27' x 5'	8300 x 1520	£1225.13
STTKIT2703	26730	121500	27' x 7'6	8300 x 2280	£1811.37
STTKIT2704	35640	162000	27' x 10'	8300 x 3040	£2486.55

### STEEL TANK ANTI ALGAE COVERS

Anti-Algae net type cover is made from 220gm woven polypropylene. With central supporting pole and strengthened top seam.



Suitable for Tank Code	Dimensions Diameter (ft)	Anti Algae Cover	Price
STTKIT09	9'	STAAC09	£327.36
STTKIT12	12'	STAAC12	£418.88
STTKIT15	15'	STAAC15	£532.40
STTKIT18	18'	STAAC18	£742.72
STTKIT21	21'	STAAC21	£818.40
STTKIT24	24'	STAAC24	£938.08
STTKIT27	27'	STAAC27	£1048.96



## Tank Covers & Liners



### STEEL TANK PVC (TARPAULIN) ROOF KITS

Heavy duty reinforced PVC covers are tailored to fit the steel tanks and prevent algae growth and wind borne debris entering the tank. Secured with central pole and polypropylene ropes attached to galvanised eye nuts.

Suitable for Tank Code	Dimensions Diameter (ft)	PVC Roof Kit	Price
STTKIT09	9'	STPVCRKIT09	£774.40
STTKIT12	12'	STPVCRKIT12	£888.80
STTKIT15	15'	STPVCRKIT15	£1161.60
STTKIT18	18'	STPVCRKIT18	£1290.08
STTKIT21	21'	STPVCRKIT21	£1506.56
STTKIT24	24'	STPVCRKIT24	£1684.32



### STEEL TANK GALVANISED ROOF KITS

Fully enclosed steel roof for complete protection and highly resistant to wind and snow loading. Kit includes two access hatches and ball valve support bracket.

Suitable for Tank Code	Dimensions Diameter (ft)	Galvanised Steel Roof Kit	Price
STTKIT09	9'	STGSRKIT09	£1047.20
STTKIT12	12'	STGSRKIT12	£1284.80
STTKIT15	15'	STGSRKIT15	£1566.40
STTKIT18	18'	STGSRKIT18	£1858.56
STTKIT21	21'	STGSRKIT21	£2606.56
STTKIT24	24'	STGSRKIT24	£3115.20
STTKIT27	27'	STGSRKIT27	£4107.84

### STEEL TANK LINERS

EPDM liners are the best combination of durability and price and available in 0.75mm or 1.0mm thickness, liner fixing kits are included within the price of the steel tanks. The liners are designed to be folded over the tank wall and secured with the fixing kits. HDPE, PVC and Butyl liners are available upon request.



Suitable for Tank Code	Dimensions Diameter x Length (ft)	EDPM 0.75mm	Price	EDPM 1.00mm	Price
STTKIT0903	9' x 8'5"	STEDPM0750903	£416.60	STEDPM1000903	£457.40
STTKIT0904	9' x 12'	N/A		STEDPM1000904	£599.00
STTKIT1202	12' x 6'	STEDPM0751202	£375.80	STEDPM1001202	£413.00
STTKIT1203	12' x 8'5"	STEDPM0751203	£474.20	STEDPM1001203	£521.00
STTKIT1204	12' x 12'	N/A		STEDPM1001204	£672.00
STTKIT1502	15' x 6'	STEDPM0751502	£504.20	STEDPM1001502	£553.40
STTKIT1503	15' x 8'5"	STEDPM0751503	£626.60	STEDPM1001503	£689.00
STTKIT1504	15' x 12'	N/A		STEDPM1001504	£878.60
STTKIT1802	18' x 6'	STEDPM0751802	£654.20	STEDPM1001802	£717.80
STTKIT1803	18' x 8'5"	STEDPM0751803	£801.80	STEDPM1001803	£879.80
STTKIT1804	18' x 12'	N/A		STEDPM1001804	£1107.80
STTKIT2102	21' x 6'	STEDPM0752102	£813.80	STEDPM1002102	£893.00
STTKIT2103	21' x 8'5"	STEDPM0752103	£985.40	STEDPM1002103	£1082.60
STTKIT2104	21' x 12'	N/A		STEDPM1002104	£1347.80
STTKIT2402	24' x 6'	STEDPM0752402	£987.80	STEDPM1002402	£1086.20
STTKIT2403	24' x 8'5"	STEDPM0752403	£1184.60	STEDPM1002403	£1302.20
STTKIT2404	24' x 12'	N/A		STEDPM1002404	£1604.60
STTKIT2702	27' x 6'	STEDPM0752702	£1178.60	STEDPM1002702	£1295.00
STTKIT2703	27' x 8'5"	STEDPM0752703	£1399.40	STEDPM1002703	£1538.60



## Pipe & Leak Repair

**NEW !**



### UNIVERSAL SLIP COUPLER FOR MULTIPLE PIPE TYPES

The range of Plasson 1761 series universal slip couplings are a welcome addition to the range for emergency repairs, works with Metric PE, Imperial PE, Steel, Copper, lead, PVC, ABS. 16 bar rated and WRAS approved.

24-28mm	PLAS1761024028	£38.50
31-35mm	PLAS1761031035	£47.00
40-43mm	PLAS1761040043	£57.80
48-51mm	PLAS1761048051	£70.00
60-64mm	PLAS1761060064	£90.80



### METRIC TO UNIVERSAL COUPLER FOR MULTIPLE PIPE TYPES

The Plasson 77017 fittings allow you to connect metric PE pipe to Imperial PE, Copper, Lead, PVC and ABS. Ideal for replacing sections of old damaged pipe with new pipe. 16 bar rated and WRAS approved.

25mm to 15-22mm	PLAS77017015025	£15.73
25mm to 20-27mm	PLAS77017020025	£16.81
25mm to 27-35mm	PLAS77017027025	£22.18
32mm to 20-27mm	PLAS77017020032	£22.18
32mm to 27-35mm	PLAS77017027032	£25.98
50mm to 35-50mm	PLAS77017035050	£48.01



### COMPRESSION SLIP COUPLINGS

Plasson 7610 repair slip coupling for MDPE & HPPE pipe

20mm	PLAS7610020	£5.16
25mm	PLAS7610025	£6.20
32mm	PLAS7610032	£13.98
50mm	PLAS7610050	£28.53
63mm	PLAS7610063	£39.82



### COMPRESSION SLIP TEES

Plasson 7045 slip tee

20mm	PLAS7045020	£9.51
25mm	PLAS7045025	£13.39
32mm	PLAS7045032	£18.25
50mm	PLAS7045050	£41.93
63mm	PLAS7045063	£59.31



### PVC TELESCOPIC REPAIR COUPLINGS

PVC Flospan telescopic couplers for the repair of damaged PVC pipe. Plain socket to plain spigot so normally requires a PVC socket as below.

1"	PVCFLOSPAN025	£5.34
1¼"	PVCFLOSPAN032	£11.24
1½"	PVCFLOSPAN040	£12.32
2"	PVCFLOSPAN050	£18.97
3"	PVCFLOSPAN080	£40.36
4"	PVCFLOSPAN100	£70.55



### PVC SOCKETS

Astore high quality PVC Plain glue sockets

1"	ASTSOCPP-RMA40	£2.51
1¼"	ASTSOCPP-RMA40	£4.43
1½"	ASTSOCPP-RMA40	£5.25
2"	ASTSOCPP-RMA40	£7.40
3"	ASTSOCPP-RMA40	£28.36
4"	ASTSOCPP-RMA40	£41.21



### PVC COMPRESSION COUPLERS

PVC compression couplers for rapid repair of PVC pipe work

1"	PVCFLOCUP025	£3.89
1¼"	PVCFLOCUP032	£9.98
1½"	PVCFLOCUP040	£10.28
2"	PVCFLOCUP050	£12.32
3"	PVCFLOCUP080	£31.90



### PVC CLEANER

Ensure sound PVC & ABS glue joints first time with good preparation.

ECO Cleaner 500ml	ASTECOCL-MCF	£13.12
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### PVC WET AND DRY GLUE

Clear, extremely fast setting PVC pipe cement that can be used in wet conditions.

250ml can	PVC1GLUEWET250	£15.16
500ml can	PVC1GLUEWET500	£26.68



### PIPE LUBE FOR MDPE, HDPE & HPPE PIPE

HS joint lubricant is a water soluble non toxic gel to allow easy assembly of various compression and push fittings.

500ml tube	PIPELUBE500	£3.10
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### PTFE SEALING PRODUCTS

Ensure leak proof joints with our range of PTFE thread sealing products.

PTFE Tape 12m x 12mm	PTFETAPE	£0.39
Loctite 55 Cord 150m	PTFE-LOCTITE55	£16.98
PTFE Paste 237ml	PTFETPASTE	£19.48

## Tools & Sundries

**NEW !**

### STUCTRON TRENCHING TOOLS

High quality tools from the USA. 4" trench digging spade and 3" Clean Out Shovel. Both with 48" premium fibreglass handle for comfortable use.

HT-TRETD504 **£53.91**  
HT-TRECOS03 **£53.91**

### SITE MARKER PAINT

Site marker paint in 750ml aerosol can. Available in red, white, blue and yellow. 750ml per can, please specify colour when ordering.

HT-MARKERPAINT **£3.80**

### MARKER FLAGS

100mm x 120mm flags on 260mm wire shaft. Ideal for marking sprinklers, valves & boxes during installation and maintenance. Available in white (with green Rain Bird logo) and green (with white Rain Bird logo). Bundle of 100 - single colour

RBMARKFLGN **£22.41**  
RBMARKFLWT **£22.41**

### PRESSURE TEST KIT

For measuring static water pressure and by using the flow valve can be used to measure dynamic pressure (in conjunction with flow cup below). 0-10 Bar glycerine filled gauge with rubber cover. Supplied with short length of 1/2" hose with brass quick coupler for connection to standard 1/2" bib tap.

HT-PRESSUREKIT **£43.31**

### HOLE PUNCH

Antelco Hole Punch 4mm, for use on LDPE pipe.

ANTHOLEPUNCH **£0.46**

### ROTOR TOOL

Rain Bird 5000 series rotor tool screwdriver.

RBROTORTOOL **£3.50**

### CABLE TIES

Nylon cable ties with a non-release ratchet lock action  
Supplied in bags of 100

#### Length

#### Width

150	2.5
200	4.8
270	4.8
390	7.6

CABTIE15035 **£1.80**  
CABTIE20035 **£2.87**  
CABTIE27048 **£3.50**  
CABTIE39076 **£9.50**

### WIRE STRIPPER TOOL

Multi function wire stripper, ideal for all electrical and irrigation work

RBWIRESTRIPPER **£36.00**

### INSULATION TAPE

Coloured tape useful for marking pipes, cables, etc. 20 metres x 12mm  
Supplied individually - choose from the following colours: Green, Red, Yellow, Blue, White, Green/Yellow and Black. Please specify colour when ordering.

INSUTAPE **£1.60**

### UNIVERSAL STRAP WRENCH

For tightening plastic pipe and manifold fittings without damaging fittings.

PLAS7992 **£38.10**

### PLASSON WRENCH

Recommended assembly tool for tightening up compression fittings

Plastic	16 - 40mm
Metal	40 - 75mm

PLAS7990016040 **£7.28**  
PLAS7990040075 **£45.75**

### PLASSON CHAMFER TOOL

The Chamfer tool is used to smooth the ends of MDPE pipes prior to inserting into compression fittings.

20 - 63mm

PLAS7960020063 **£76.84**

### PTFE TAPE TO BS5292

For sealing threaded joints.

12 metres x 12mm roll

PTFETAPE **£0.39**

### XERIMAN TOOL

Multi function tool for use with Rain Bird drip & low volume components. Provides fast installation of Rain Bird Xeribug emitters, self piercing barbed connectors and goaf plugs into tubing. Also used to remove installed emitters.

RBXM-TOOL **£2.60**

## Tools & Sundries



### PLASSON PIPE SHEARS - RATCHET TYPE

Plasson pipe shears for cutting MDPE pipe. Two sizes available, small one handles pipe from 20mm to 32mm and larger set from 20mm to 63mm.

Small 20 - 32mm

PLAS60125

£45.27

Large 20 - 63mm

PLAS60126

£108.84



### BLAZING PIPE CUTTERS SB5000 - SCISSOR TYPE

Professional scissor type pipe cutters for MDPE and LDPE pipes up to 32mm. Comfort handles and sharp Teflon coated carbon steel blades that can be easily replaced with the push of a button. Bright yellow body to prevent loss.

SB5000 20 - 32mm

HT-PIPBLAZSB5000 £16.94

SB5000 Spare Blade

HT-PIPBLAZBL5001 £4.53



### BLAZING SWITCHBLADE SB3300 PIPE CUTTERS - SCISSOR TYPE

High quality '3 cutters in one', the switchblade pipe cutter has three separate locking blade positions that enables you to cut from 6mm tube up to 50mm. Comfort handles and replaceable blade. Bright yellow body to prevent loss.

SB3300 20 - 50mm

HT-PIPBLAZSB3300 £17.10

SB3300 Spare Blade

HT-PIPBLAZBL2000 £6.99



### KING RATCHET CUTTERS

King USA pipe shears for cutting MDPE pipe from 20mm to 50mm. Stainless steel blade and tough alloy body.

HT-KPC-RPC050

£41.37



### BUDGET PIPE CUTTERS - SCISSOR TYPE

Basic pipe shears for cutting MDPE pipe. Max diameter 32mm.

HT-PIPECUTTER32 £8.29



### BUDGET PIPE SHEARS - RATCHET TYPE

Basic pipe ratchet shears for cutting MDPE pipe. Max diameter 42mm.

HT-PIPESHEARS42 £12.60



### TUBING CUTTER

Rain Bird quick action plastic cutter is designed for easy cutting of all low density PE pipe. Lightweight with nylon handles and Teflon coated stainless steel blades.

RBPPC-200X

£28.80



### KING HAND PUMP

King USA utility hand pump for quick removal of water from valve boxes etc. 36" long body and 72" flexible discharge hose.

HT-KSK-3672

£40.98



### KING HAND PUMP - SYRINGE ADAPTOR

Clever adaptor that threads on the bottom of the 36" King Hand Pump to provide a 12" long small (15mm OD) pipe tail for removal of water from smaller spaces.

HT-KSK-SS

£16.08



### UNDERHILL SYRINGE

Underhill Gulp 12" Clear Syringe for water removal from small & compact spaces such as sprinkler bodies.

HT-GULPSYRINGCL £44.84



### MULTIMETER

Good quality digital multimeter test device for use on irrigation systems. AC & DC voltage, Current, Resistance & Capacitance, essential for all contractor toolboxes.

HT-DIGMULTIPRO £23.18



### CLAMPMETER

Specialist autoranging clamp metre for fault diagnosis on decoder control systems and can read down to 0.1mA. If you haven't got one of these units in your toolbox then you are wasting your time trying to find a decoder control system issue !

HT-CLAMPMTR

£249.00



### FAULT FINDING TRANSFORMER

Most irrigation controllers will refuse to power up a cable path that has more than a certain amount of load or earth leakage on it. In these cases the cable path is disconnected from the controller and attached to this transformer to allow fault tracing using a clamp meter. Input voltage 230VAC & output 30VAC 5 amp.

HT-TRANS30V5ARE £343.88

NEW !

NEW !

NEW !

NEW !

NEW !

## Tools & Sundries



### RAIN BIRD ORANGE MULTI FUNCTION SELECTOR TOOL

Essential multi function tool for all Eagle rotors. Teeth to scrape away debris on the valve selector assembly, key to adjust valve to either manual on, auto or off. Hex key to remove solenoid plunger tube assembly.

RBETOOLEGLSVK £22.30



### RAIN BIRD 7" SELECTOR TOOL

7" (18cm) long handled selector valve key for setting operating mode to off, auto or manual. (saves a little bending down compared to orange key !)

RBETOOLDRSVK7 £54.10



### RAIN BIRD 18" SELECTOR TOOL

18" (36cm) long handled selector valve key for setting operating mode to off, auto or manual. (saves a lot of bending down compared to orange key !)

RBETOOLDRSVK18 £109.30



### RAIN BIRD INSTALLATION SOCKET

Installation socket (white) for top serviceable rock screen in Eagle rotors.

RBETOOL-ISTSR5 £22.30



### RAIN BIRD SNAP RING PLIERS FOR ALL 500 & 700 SERIES EAGLES

Snap ring pliers for removal and insertion of lower snap ring on 700 series Eagles

RBETOOL-SR700 £123.80



### RAIN BIRD SNAP RING PLIERS FOR ALL 900 SERIES EAGLES

Snap ring pliers for removal and insertion of lower snap ring on 900 series Eagles

RBETOOL-SRP £147.70



### RAIN BIRD VALVE INSERTION TOOL FOR ALL 500 & 700 SERIES EAGLES

Tool for the re-insertion of the bottom valve assembly in 500 & 700 series Eagles.

RBETOOL-VT700 £181.00



### RAIN BIRD VALVE INSERTION TOOL FOR ALL 900 SERIES EAGLES

Tool for the re-insertion of the bottom valve assembly in 900 series Eagles.

RBETOOL-VTDR £183.59



### RAIN BIRD UNIVERSAL HOSE ADAPTOR FOR ALL EAGLES

After removing the internals from any of the Eagle valve in head rotor this clever adaptor converts the sprinkler head into a manual watering access point.

RBETOOL-UHA £170.60



### UNDERHILL PELLET PRO

Wetting agent applicator tool for use with solid tablets. Includes on/off valve and Cloudburst nozzle for outstanding fan pattern.

HT-UNDPWA50K £121.00



### UNDERHILL LIQUID PRO

Wetting agent applicator tool for use with liquid wetting agents. Includes on/off valve and Cloudburst nozzle for outstanding fan pattern. 950ml poly bottle with easy to read measurements. Adjustable metering dial can be removed to prevent tampering with pre determined setting.

HT-UNDLPWA50K £202.00



### DOSATRON 3GL

High quality liquid fertiliser dosing unit for irrigation with adjustable dosage from 0.2% to 2%.. Minimum flow 10 litre per hour and maximum flow 3000 litre per hour. 3/4 BSP male inlet and outlet. Complete with wall mounting bracket.

DOSATRON3GL-2 £308.00

*Full range of larger Dosatron units available, call for details.*

## Technical Information

### Conversions

To Convert	Into	Multiply by
<b>Length</b>		
Feet	Metre	0.305
Feet	Millimetres	304.8
Inches	Millimetres	25.4
Yards	Metres	0.914
Metres	Yards	1.094
Metres	Feet	3.281
Millimetres	Inches	0.039
<b>Area</b>		
Acres	Hectares	0.405
Acres	Square Feet	43,560
Acres	Square Metres	4047
Acres	Square Yards	4840
Hectares	Acres	2.471
Square Centimetres	Square Metres	0.1550
Square Feet	Square Centimetres	929.0
Square Feet	Square Metres	0.093
Square Feet	Square Yards	0.111
Square Inches	Square Centimetres	6.452
Square Metres	Square Feet	10.76
Square Metres	Square Inches	1550
Square Metres	Square Yards	1.196
Square Yards	Square Metres	0.836
Square Yards	Square Feet	9.0
<b>Weight</b>		
Grams	Ounces	0.035
Kilograms	Pounds	2.205
Ounces	Grams	28.350
Pounds	Grams	453.592
Pounds	Kilograms	0.454
<b>Volume</b>		
Pints	Litres	0.568
Gallons	Litres	4.55
Litres	Gallons	0.22
Litres	Pints	1.76
U.S Gallons	Imp. Galls	0.8327
Cubic Metres	Cubic Feet	35.31
Cubic Metres	Cubic Yards	1.31
Cubic Metres	Gallons	220
Cubic Yards	Cubic Feet	27.0
Cubic Yards	Cubic Inches	46.656
Cubic Yards	Cubic Metres	0.765
Cubic Feet	Cubic Centimetres	28.320
Cubic Feet	Cubic Inches	1728
Cubic Feet	Cubic Metres	0.028
<b>Pressure</b>		
Lbs. P.S.I	Kg/Sq.cm.	0.0703
Kg/Sq.cm.	P.S.I	14.22
Ats.	P.S.I	14.7
P.S.I	Ats.	0.0680
Ats.	Kg/Sq.cm.	1.033
Kg/Sq.cm.	Ats.	0.9678
P.S.I	Ft.	2.31
Ft.	P.S.I	0.434
Kg/Sq.cm.	Ft.	32.8
Kpa	P.S.I	0.145
Bar	P.S.I	14.5
P.S.I	Bar	0.06895
<b>Flow</b>		
Cu. ft per second	GPM	374
Cu. ft per minute	GPM	6.23
Cu. ft per hour	GPM	0.1038
Cu. metres per hour	GPM	3.666
Cu. metre per minute	GPM	220
Litres per second	GPM	13.2
Litres per minute	GPM	0.224
<b>Power</b>		
H.P	Kw	0.7457
Kw.	H.P	1.341
Kca.l	Kw	864

Divide by

### Recommendations

#### Cable for Electric Motor (From Meter to Pump)

Motor	Kw	Volt	1.5mm	2.5mm	4mm	6mm	10mm	16mm
0.37	230	80		130	230	350	580	1000
0.55	230	55		90	140	200	350	700
0.75	230	40		65	105	160	300	500
1.1	230	30		50	75	115	190	400
1.5	230	25		35	60	90	145	230
2.2	230	--		30	50	70	120	185

Cable size in mm & Maximum length of cable in metres.

#### Pipe Application

Potable Water	Blue
Raw (untreated) water	Black
Sewerage	Black
Gas	Yellow
Irrigation & RWH	Black with Green Stripe
Telecommunications	Green
Power Cable ducting	Red/Orange

#### Flow Characteristics and Head Loss

In pipelines, pressure will be lost or reduced because of the effects of friction or disturbance of the liquid against the inside wall. This reduction in pressure is also compounded by the interruption of a smooth flow by fittings. This loss must be accommodated in the design of the system.

External Diameter (mm)	Internal Diameter (mm)	Type	Flow m <sup>3</sup> /hr	Flow ltrs/s	Velocity mtrs/s	Friction Loss m/100m
32	25.8	12 bar	2.8	0.78	1.5	9.62
50	40.4	12 bar	6.9	1.92	1.5	5.61
63	50.9	12 bar	11.0	3.06	1.5	4.29
75	60.6	10 bar	15.5	4.31	1.5	3.45
90	72.9	10 bar	22.5	6.25	1.5	2.77

#### Friction loss in MDPE

**NB: Velocity of flow through main pipeline should not exceed 1.5 Mtrs/s**

#### Friction loss through Fittings

The loss of pressure through a combination of fittings can be significant. The following formula can be used to calculate this loss. The loss is shown as an equivalent to a length of straight pipe.

$$P = F \times ID$$

Where: P = Pipe Length in metres  
F = Fittings Factor which is given below  
ID= Internal Diameter of the Fitting

Fitting	Factor
90° Elbow	0.030
45° Elbow	0.014
90° Tee (straight through)	0.012
90° Tee (side branch)	0.060
90° Long Radius Bends (4D)	0.008
90° Bend	0.012
45° Bend	0.009

The Resultant P (pipe length) is then added to the actual straight pipe length, which gives a total length for flow calculations.

#### Water Meters

When installing domestic irrigation systems sourced from a mains water supply, check with the Regional Water board for details of their by-laws and water usage guidelines.

#### Further Help

If you cannot find what you are looking for or need assistance please call !

## Technical Information

### Rate of Precipitation

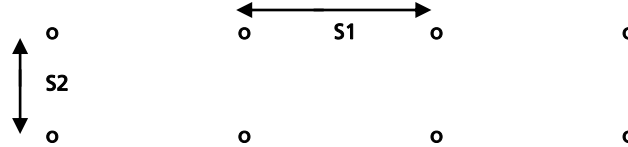
There are various sprinkler configurations, but with all of them the formula given below gives the rate of precipitation of full-circle sprinklers.

Spacing is denoted by S1 and S2 and is based on the following:

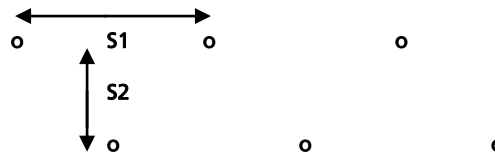
**S1= Spacing between heads within a row (in metres)**

**S2= Spacing between rows (in metres), or as shown for an in-line configuration.**

#### Rectangular or Square

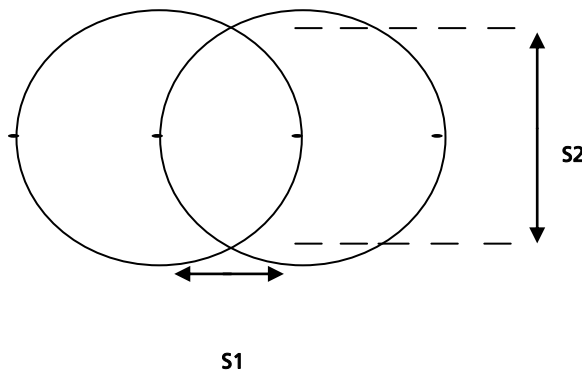


#### Triangular



With equilateral triangular spacing of distance **S1**, the distance **S2** is always **S1 x 0.866**

#### In-Line



With sprinklers in line spaced at a distance of **S1**, the distance **S2** is taken as that between the two points where arcs intersect.

In each if the configurations above:

$$\frac{\text{Output per Head (in litres per minute)} \times 60}{S1 \times S2 \text{ (both in metres)}} = \text{Precipitation in mm/hour}$$

Precipitation rates increase proportionately to the reduction in the sprinkler arc, unless matched precipitation heads are used.

### Sprinkler Running Time:

$$\frac{\text{Required application rate per day (mm)} \times 60}{\text{Precipitation rate (mm/hr)}} = \text{Required operating time per day (minutes)}$$

### Adjustment Factors to 360° operating times for:

Part Circle	=	$\frac{\text{Operating time (for 360°)} \times \text{Arc setting}}{360°}$
Single Row - two spaced		$(120° \times 60° \times 120° \times 60°) \times 1.25$
Two Speed (1800 x 1800)		Slow Arc facing inwards x 1.50 Slow Arc facing outwards x 0.75

The Specifications and information included within these technical pages are provided in good faith.

We cannot be held responsible for any errors or omissions !

### Watering Guideline

Suggested average daily application on a domestic landscape in the UK is approx. 10mm per week. However this could peak up to 25mm per week depending on the site, soil and weather conditions (10mm is equivalent to 10 litres of water over 1 sqm).

It is important when specifying the tank size and general components that the system can cope with higher application rates in very dry periods. It is generally preferable in a garden to water more heavily on a less frequent basis (two or three waterings per week rather than a few minutes every night).

### IMPORTANT:

Please note that all electrical work on 'Garden power installations' must comply with Part P of the Building Regulations. Failure to comply is a criminal offence. If the installation of this product is not carried out by a competent electrician who is registered under a Part P self-certification scheme then you must notify the local Building Control Department before work begins. For further information contact your local authority's Building Control Department.



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- If a quote is successful you can then order the product in seconds, amend the list and quantities and also add a delivery address.
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# Conditions of Sale

## 1. Basis of Sale

- 1.1 These Conditions of Sale ("the Conditions") shall apply to all transactions ("the Contract") for the sale of irrigation products ("the Goods") by Landscape Watering Systems Limited ("the Company") to a customer ("the Customer") and no variation shall be binding unless agreed in writing between the Company and the Customer.
- 1.2 The Conditions shall apply to the exclusion of any other terms and conditions proposed by the Customer unless acceptance of such terms and conditions has been confirmed by the Company to the Customer in writing.
- 1.3 The Company's employees or agents are not authorised to make any representations concerning the Goods unless confirmed by the Company in writing and the Customer acknowledges that it does not rely on, and waives any claim for breach of, any such representations which are not so confirmed.
- 1.4 Unless otherwise agreed in writing the content of all sales literature, price lists, quotations or other documents or information are illustrative only and may be varied without any liability on the part of the Company provided that any alterations do not materially affect the quality or performance of the Goods.

## 2. Orders

- 2.1 No order shall be deemed to be accepted by the Company unless and until confirmed in writing by the Company.
- 2.2 The quantity, quality and description of the Goods shall be those set out in the Company's estimate (if accepted by the Customer) or the Customer's order (if accepted by the Company).
- 2.3 No order for goods to a value of less than £20 shall be accepted by the Company.
- 2.4 No order for Goods which has been accepted by the Company may be cancelled, unless (other than in respect of any specified order for which cancellation is not permitted) the Customer pays to the Company an administration fee equal to 10% of the Price and the Goods (if delivered) are returned to the Company in a satisfactory condition.

## 3. Price

- 3.1 The price of the Goods ("the Price") shall be the Company's quoted price which shall be valid for 30 days only or until earlier acceptance by the Customer or, if none, the list price at the date of placing the order less any agreed discount.
- 3.2 Unless otherwise agreed in writing the Price shall be quoted on an ex-works basis and the Customer shall be liable to pay the Company's charges for delivery which shall include transport, packaging and insurance.
- 3.3 The Price is exclusive of any applicable value added tax which the Customer shall be additionally liable to pay to the Company.

## 4. Terms of Payment

- 4.1 The Company shall be entitled to invoice the Customer for the Price on or at any time after delivery of the Goods. The Customer shall pay the Price without any deduction within 30 days of the date of invoice. The time of payment of the Price shall be of the essence of the Contract.
- 4.2 If the Customer fails to make any payment on the due date then, without prejudice to any other right or remedy available to the Company, the Company shall be entitled to:-
  - a) cancel the Contract or suspend any further deliveries to the Customer; and
  - b) charge the Customer interest (both before and after any judgement) on the amount unpaid at the rate of 2% above the base rate from time to time of National Westminster Bank plc from the due date until payment in full is made.

## 5. Delivery

- 5.1 Any dates quoted for delivery of the Goods are approximate only and the Company shall not be liable for any reasonable delay in delivery. Time for delivery shall not be of the essence unless previously agreed by the Company in writing.
- 5.2 The Customer shall notify the Company in writing if it has not received the Goods within 7 days after receipt of the Company's invoice therefor.
- 5.3 If the Company fails to deliver the Goods for any reason beyond the Company's control or owing to the fault of the Customer, the Company's liability shall be limited to the excess of the cost to the Customer (in the cheapest available market) of similar goods to replace those not delivered over the Price.

## 6. Risk and Title

- 6.1 Risk of damage to, or loss of, the Goods shall pass to the Customer on delivery or, if the Customer wrongfully fails to take delivery, at the time when delivery is tendered.
- 6.2 Notwithstanding delivery and the passing of risk in the Goods, or any other provisions in the Conditions, title to the Goods shall not pass to the Customer until the Company has received payment in full of the Price and of the Price of all other goods agreed to be sold by the Company to the Customer for which payment is then due.
- 6.3 Until such time as title to the Goods passes to the Customer, the Customer shall hold the Goods as the Company's fiduciary agent and bailee and shall keep the Goods separate from those of the Customer and third parties and properly stored, protected and insured and identified as the Company's property. Until that time the Customer shall be entitled to resell or use the Goods in the ordinary course of its business but shall account to the Company for the proceeds of sale or otherwise of the Goods, whether tangible or intangible and shall keep all such proceeds separate from any moneys or property of the Customer and third parties and, in the case of tangible proceeds, properly stored, protected and insured. Until such time as title to the Goods passes to the Customer (and provided the Goods are still in existence and have not been resold) the Company shall be entitled at any time to require the Customer to deliver up the Goods to the Company and, if the Customer fails to do so forthwith, to enter upon any premises of the Customer or of any third party where the Goods are stored and repossess the Goods.

## 7. Insolvency

- 7.1 If the Customer makes any voluntary arrangement with its creditors, becomes subject to an Administration Order, or (being an individual or firm) becomes bankrupt, or (being a company) goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction), or an encumbrancer takes possession, or a Receiver is appointed of any of the property or assets of the Customer, or the Customer ceases or threatens to cease to carry on business, or the Company reasonably apprehends that any of the events mentioned in the clause is about to occur (and notifies the Customer accordingly) then, without prejudice to any other right or remedy available to the Company, the Company shall be entitled to cancel the Contract or suspend any further deliveries without any liability to the Customer and, if the Goods have been delivered but not paid for, the Price shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.

## 8. Warranties and Liabilities

- 8.1 The Goods are not manufactured by the Company and the Company does not give any warranty, guarantee or other terms as to their quality, fitness for purpose or otherwise but shall, where possible, assign to the Customer the benefit of any such warranty, guarantee or other term as is given by the manufacturer to the Company.
- 8.2 The Company shall be under no liability in respect of any defect arising from fair wear and tear, wilful damage, negligence, abnormal working conditions, failure to follow the Company's or the manufacturer's instructions (oral or written), misuse, alteration or repair of the Goods without the Company's or the manufacturer's approval or if the Price has not been paid by the due date for payment.
- 8.3 Except in respect of death or personal injury caused by the Company's negligence, the Company shall not be liable to the Customer by reason of any representation, implied warranty, condition or other terms or any duty at common law or under the express terms of the Conditions for any consequential loss or damage (whether for loss of profit or other wise), costs, expenses or other claims for consequential compensation whatsoever which arise out of, or in connection with, the supply of the Goods or their use or resale by the Customer.
- 8.4 The Customer acknowledges that it will inspect the Goods on delivery and any claim by the Customer which is based on any defect in the quality or condition of the Goods shall be notified to the Company in writing within 7 days from the date of delivery or (where the defect was not apparent on reasonable inspection) within a reasonable time after discovery of the defect. If the Customer does not notify the Company as provided herein, the Customer shall not be entitled to reject the Goods and the Company shall have no liability for such defect and the Customer shall be bound to pay the Price as if the Goods had been delivered in accordance with the Contract.
- 8.5 Where any valid claim is made by the Customer in accordance with this clause the Company shall be entitled to replace the Goods (or the part in question) free of charge or, at the Company's sole discretion, refund to the Customer the Price (or a proportion or part of the Price) but the Company shall have no further liability to the Customer.

## 9. General

- 9.1 The Company is a member of the group of companies whose holding company is M J Abbott Limited and accordingly the Company may perform any of its obligations or exercise any of its rights hereunder by itself or through any other member of its group, provided that any act or omission of any such other members shall be deemed to be the act or omission of the Company.
- 9.2 The Contract shall be governed by English law.





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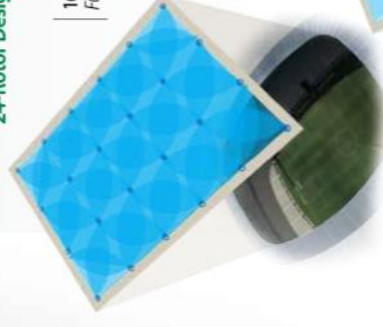


### Championship Formula 16+8 Configuration

- 24-rotor design:**
- 16 part-circle rotors
  - 8 full-circle rotors
- Field dimension:**
- 105 meters x 68 meters

### 24-Rotor Design vs. 13-Rotor Design

**16+8 Rotor Design:**  
*Full, even coverages*



**10+3 Rotor Design:**  
*Brown spots and dry areas*



(7 rows of 5 rotors).

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