

The Hortisystems Irrigation Catalogue 2015

Welcome to the new Hortisystems Irrigation catalogue.

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**If you know the particular components you require, you can simply refer to the index.
If there is anything you cannot find, just contact us today.**

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SIZES, ABBREVIATIONS AND MEASUREMENTS

PVC pipes and fittings are in metric sizes. A 32mm pipe is 32mm external diameter.

A32mm socket is 32mm internal diameter, ie. it fits the 32mm pipe. Some fittings can be used either internally or externally and this would be shown as, for example, 25/32mm, being 25mm internal – to go over 25mm pipe, or 32mm external – to go inside a 32mm fitting.

Screw fittings generally use BSP (British Standard Pipe) threads. These are given as a measurement in inches which relates to a standard imperial pipe size. This can make them difficult to measure so if you are not sure, compare with a spare fitting of known size.

BSP threads are shown in inches. In this catalogue, fittings are male (external) thread unless they are marked F for female (internal) thread or unless it is otherwise obvious. Thus a 32" x 1" connector is 32mm internal diameter one end and 1" BSP male the other.

Hose sizes are also given in inches. This is the measurement of the internal bore of the hose. Take care not to confuse with BSP fittings.

Some types of nozzles use a Whitworth (WW) thread given in inches. This is a coarse tapered thread, and is always clearly marked, for example, 3/8" WW.

The common alternative thread for nozzles is metric. The measurement is millimetres to the outside of the threads and is shown as, for example M11.

PE (polyethylene) pipe is identified by its external diameter in the same way as PVC pipe. Fittings are sizes accordingly to the PE pipe they fit. So a 20mm barbed fitting will fit 20mm PE pipe.

Volumes are shown in litres (l), cubic metres (cu m) or gallons.

1 cu m = 1000 l = 220 gallons

1 gallon = 4.55 l

Rates of flow are given in cubic metres/hour (cu m/h), litres/hour (l/h) or litres/minute (l/m).

Pressures are shown in bar

1 bar = 14.5psi = 0.99 atmospheres.

Generally metric measurements are used in specifications and quotations.

1 metre = 3.22808 feet 1 foot = 0.3048m

1 cm = 0.3937 inches 1 inch = 2.54cm

PVC Pipe

PVC pipe



Pressure rating	16-40mm	10 bar
	50-110mm	7.5 bar

Higher pressure ratings are available on request. 36mm sleeving is designed to fit over the outside of 32mm pipe and provides an economical alternative to PVC sockets for this size. Sleeving is not socketed either end. Plain pipe has a socket at one end. See also: spraylines.

Sizes are external diameter x length.

Code	Description
IPP016	16mm x 5.04m pipe
IPP020	20mm x 5.04m pipe
IPP025	25mm x 5.04m pipe
IPP032-5	32mm x 5.04m pipe
IPP036	36mm x 5.00m sleeving
IPP040	40mm x 5.00m pipe
IPP050	50mm x 5.00m pipe
IPP063	63mm x 5.00m pipe
IPP075	75mm x 5.00m pipe
IPP090	90mm x 5.00m pipe
IPP110	110mm x 5.00m pipe

125mm and 160mm pipe and fitting available on request.

PVC pipe clamps



Heavy duty black PE body with PVC pipe retaining clip on larger sizes. Central countersunk screw hole.

Code	Description
IPPC016	PVC clamp 16mm
IPPC020	PVC clamp 20mm
IPPC025	PVC clamp 25mm
IPPC032	PVC clamp 32mm
IPPC040	PVC clamp 40mm with clip
IPPC050	PVC clamp 50mm with clip
IPPC063	PVC clamp 63mm with clip
IPPC075	PVC clamp 75mm with clip
IPPC090	PVC clamp 90mm with clip
IPPC110	PVC clamp 110mm with clip

Pipe clamp spacer blocks



Code	Description
IPPCS016	Pipe clamp spacer 16mm
IPPCS020	Pipe clamp spacer 20mm
IPPCS025	Pipe clamp spacer 25mm
IPPCS032	Pipe clamp spacer 32mm
IPPCS040	Pipe clamp spacer 40mm
IPPCS050	Pipe clamp spacer 50mm
IPPCS063	Pipe clamp spacer 63mm
IPPCS075	Pipe clamp spacer 75mm

J Hooks



Galvanised steel hooks for suspending main supply pipes. Designed to fit over a 50mm or 60mm wide trellis. J hooks are available in a variety of sizes and configurations. Minimum order 100.

Code	Description
IYJ50-25-50	50mm J hookx25cm x 50mm
IYJ63-25-50	63mm J hookx25cm x 50mm
IYJ75-25-50	75mm J hookx25cm x 50mm
IYJ90-25-50	90mm J hookx25cm x 50mm

Mattress chain



Lightweight chain for supporting PVC pipes

Code	Description
SCM	Mattress chain (100m bucket)

Spraylines

PVC spraylines

Pressure rating 10 bar Sprayline is commonly supplied drilled at 1.5 metre with M11 or $\frac{3}{8}$ " WW thread depending on the particular nozzle type to be used.

Code	Description
IPP032-M3	32mm x 4.54m M11@1.5m
IPP032-M5	32mm x 5.04m M11 @1.0m
IPP032-W3	32mm x 4.54m $\frac{3}{8}$ " WW @1.5m
IPP032-W5	32mm x 5.04m $\frac{3}{8}$ " WW @1.0m

PVC sprayline couplings



Simple coupling for 32mm sprayline, complete or "2/3" with socket ends. Accepts plastic sprayline filter. Couplings are rated 7.5 bar.

Code	Description
IPUS-1	Complete 32mm x $1\frac{1}{4}$ " x 32mm
IPUS-3	$\frac{3}{8}$ coupling 32mm x $1\frac{1}{4}$ " BSP
IPUSF	Sprayline filter 32mm
IPTT32-5-2	Tee $1\frac{1}{4}$ " x 32mm x $1\frac{1}{4}$ "
IPTT40-5-2	Tee $1\frac{1}{4}$ " x 40mm x $1\frac{1}{4}$ "

PVC drain valves



Drains water from spraylines to prevent dripping from nozzles. PVC body with rubber seal and stainless steel spring. Use drain tube to prevent splash and to recover water. May be fitted in-line with tee or at end with elbow.

Code	Description
IPD	Drain 32mm x $1\frac{1}{4}$ " x $\frac{1}{2}$ " hose
IPDE	Drain 32mm x $1\frac{1}{4}$ " x $\frac{1}{2}$ " + elbow
IET16-1	Drain tube 16mm x 100m
IPET32-5	PVC elbow 32mm x $1\frac{1}{4}$ "
IPTT32-5	PVC tee 32mm x $1\frac{1}{4}$ " x 32mm

Sprayline endsets



Glue fitting with screw cap for the end of spraylines. See also: PVC endsets.

Code	Description
IPF32-4	Endset 32/40 mm x 1"

Sprayline hooks



Clip to a wire to suspend standard 32mm PVC sprayline. Longer lengths are available on request. Galvanised wire Sold in units of 100.

Code	Description
IYH16	Galv sprayline hook 16cm
IYH20	Galv sprayline hook 20cm
IYH24	Galv sprayline hook 24cm
IYH28	Galv sprayline hook 28cm
IYH36	Galv sprayline hook 36cm
IYH40	Galv sprayline hook 40cm
IYH60	Galv sprayline hook 60cm
IYH80	Galv sprayline hook 80cm
IYH100	Galv sprayline hook 100cm

Galvanised wire



Standard galvanised wire for hanging spraylines

Approx. Gauge	Diameter	Approx. length
12 gauge	2.5mm	650m / 25 kg
12 gauge	2.5mm	130m / 5kg

Code	Description
IYW12	12 gauge x 25kg galv. wire
IYW12-5	12 gauge x 5kg galv. wire
IYWT-3	Galv. medium tensioner No.3

Nozzles

Sprayline Nozzles

Pin nozzles



available with M11 (standard) or $\frac{3}{8}$ " WW male threads. May be used with anti-drip connector (see nozzle accessories). Diameter of coverage approx. 3.0 metres. Size in mm. Output in litres/minute @ 2 bar. Sold in packets of 100.

Code	Description	Size	Output
IPOP-1	White M11	2.5	3.7
IPOP-1W	White W/W	2.5	3.7
IPOP-2	Grey M11	2.6	4.2
IPOP-2W	Grey W/W	2.6	4.2
IPOP-3	Brown W/W	2.7	4.6
IPOP-3W	Brown W/W	2.7	4.6
IPOP-4	Violet M11	2.8	5.1
IPOP-4W	Violet W/W	2.8	5.1
IPOP-5	Orange M11	2.9	5.3
IPOP-5W	Orange W/W	2.9	5.3
IPOP-6	Blue M11	3.0	5.4
IPOP-6W	Blue W/W	3.0	5.4
IPOP-7	Green M11	3.2	6.3
IPOP-7W	Green W/W	3.2	6.3
IPOP08	Red M11	3.9	7.1
IPOP-8W	Red W/W	3.9	7.1

Bow nozzles



Available with M11 (standard) or $\frac{3}{8}$ " WW male threads. May be used with anti-drip connector (see nozzle accessories). Diameter of coverage 1.5 – 3.0 metres.

Size in mm. Output in litres / minute @ 2 bar.

Sold in packs of 100

Code	Description	Size	Output
IPOB-1	Brown M11	1.75	1.73
IPOB-1W	Brown WW	1.75	1.73
IPOB-2	Green M11	2.00	2.06
IPOB-2W	Green WW	2.00	2.06
IPOB-3	Grey M11	2.25	2.81
IPOB-3W	Grey WW	2.25	2.81
IPOB-4	Blue WW	2.50	3.50
IPOB-4W	Glue WW	2.50	3.50

Code	Description	Size	Output
IPOB5	Red M11	2.75	4.72
IPOB-5W	Red WW	2.75	4.72
IPOB-6	Orange M11	3.00	5.46
IPOB-6W	Orange WW	3.00	5.46
IPOB-7	Black M11	3.25	6.76
IPOB-7W	Black WW	3.25	6.76

Misting Nozzles

Dan fogger nozzle



A special nozzle design delivers a very fine mist. A 'leakage prevention device' (LPD) shuts the nozzle off and prevents dripping onto plants when the water is turned off. Output 28 litres / hour at optimum working pressure of 4.0 bar.

Recommended density on per 1.0 – 1.5m².

Code	Description	Output
ITMFM	Dan fogger M11	28l/hr
ITMFW	Dan fogger $\frac{3}{8}$ WW	28l/hr
ITMFE	Dan fogger PE	28l/hr

Misting nozzles



Available with M11 (standard) or $\frac{3}{8}$ " WW male threads. May be used with anti-drip connector (see nozzle accessories). Diameter of coverage 1.0 – 1.5m.

Size in mm. Output in litres/minute @ 2 bar

Sold in packs of 100

Code	Description	Size	Output
IPOM-1	Blue / White M11	1.00	0.65
IPOM-1W	Blue / White WW	1.00	0.65
IPOM-2	Red / White M11	1.25	0.90
IPOM-2W	Red / White WW	1.25	0.90
IPOM-3	Black / White M11	1.50	1.30
IPOM-3W	Black / White WW	1.50	1.30

Nozzle accessories



Code	Description
IPOAW	Anti-drip connector 3/8" WW
IPOAM	Anti-drip connector M11
IPOD	Dummy (blanking) nozzle M11
IPODW	Dummy (blanking) nozzle 3/8" WW
IPOC	Adaptor 3/8" F x M11 M
IPOG	Grommet 3/8" WW
IPOR11	Nozzle risers M11
IPOR3	Nozzle risers 3/8" WW

Naan misting nozzles



Designed to fit in standard spraylines, the Naan mist nozzles produce very fine droplets which are ideal for propagation areas.

The Naan drainage preventer fits in the base of the nozzle and shuts off the flow except when the system is under pressure. This prevents dripping on valuable plants and ensures the whole system is full on start-up.

Diameters only approximate

Nozzle colour	Code	Litres/hour	Diam. m
Black	IMNN-B	33	1.0
Red	IMNN-R	61	1.2
Blue	IMNN-L	103	1.6
Yellow	IMNN-Y	128	1.8
Green	IMNN-G	166	2.2
Brown	IMNN-N	265	2.7

Code	Description
IMNN-B	Naan mist nozzle black
IMNN-R	Naan mist nozzle red
IMNN-L	Naan mist nozzle blue
IMNN-Y	Naan mist nozzle yellow
IMNN-G	Naan mist nozzle green
IMNN-N	Naan mist nozzle brown

TYPICAL COMBINATION: NAAN MISTING NOZZLE PLUS BASE, WITH OR WITHOUT DRAINAGE PREVENTER

Naan 180° misting nozzles

For irrigation in greenhouses and gardens. Fitted for spraying along the walls of glasshouse, gardens and lawn edges.

Radius only approximate.

Nozzle colour	Code	Litres/hour	Diam. m
Red	ITAH-R	61	1.45
Blue	ITAH-L	103	1.55
Yellow	ITAH-Y	128	1.65
Green	ITAH-G	166	1.70
Brown	ITAH-N	265	1.85

Code	Description
ITAH-R	Naan 180° mist nozzle red
ITAH-L	Naan 180° mist nozzle blue
ITAH-Y	Naan 180° mist nozzle yellow
ITAH-G	Naan 180° mist nozzle green
ITAH-N	Naan 180° mist nozzle brown

Naan Accessories



Code	Description
IMNNP	4mm drainage preventer
IMNNB-1	1/2" bayonet base
IMNNB-2	3/8" WW bayonet base
IMNNB-F	Barbed bayonet base
IMNNB-M	Male bayonet base
IMNNB-P	Plug bayonet
IMNNB-B	Barbed connector
IDLP4	PE hole punch 4mm
IDLPQ20-4	Quick cut punch 4mm 16/20

Amber light misting nozzles



1/2" BSP, M11, 3/8" WW and anti drip valve.

Hole size 0.8mm. Output in 0.68 is litre / min at 2 bar.

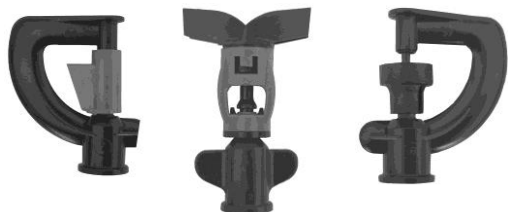
Diameter coverage 1.3m.

Minimum recommended height above plants is 90cm.

Code	Description
IMA-2	Amber nozzle 1/2" BSP
IMA-M	Amber nozzle M 11
IMA-W	Amber nozzle 3/8" WW
IMAA	Anti drip valve 1/2" nozzle only

Mini Sprinklers

Dan bridge green swivel



Mini-sprinklers are the modern alternative to pin nozzles for use in situations where excellent coverage is required. One line of nozzles is used per 3-5 metre bay, with nozzles spaced at 1 to 1.5m intervals, depending on sprinkler size and crop. The sprinklers are available with M11, $\frac{3}{8}$ " WW or PE bases.

Sprinklers are available with a 'leakage prevention device' (LPD) which shuts the nozzle off and prevents dripping onto plants when the water is turned off. Because the header pipes remain full of water, the system starts up faster and more uniformly than drained systems.

For new systems the LPD is integral with PE, $\frac{3}{8}$ " WW or M11 base or for replacement systems it is available as a separate item.

Minimum working pressure: 18m
Opening pressure: 14-17m
Closing pressure: 10-13m

Example flow rate in litres per hour						
Pressure in bar:	1.0	1.5	2.0	2.5	3.0	3.5
Green nozzle 1.4mm	74	91	105	117	129	139
Yellow nozzle 1.7mm	113	139	160	179	196	212

Further flow rates available on request.

Code	Description
ITMC-G	Bridge swivel only – green
ITMC-Y	Bridge swivel only – yellow
ITMCA-G	Bridge swivel + antimist green
ITMCA-Y	Bridge swivel + antimist yellow

Dan bridgeless green swivel

Code	Description
ITMG-B	Bridgeless swivel only – blue
ITMG-G	Bridgeless swivel only – green
ITMG-K	Bridgeless swivel only – black

Dan small black swivel

Code	Description
ITMK-B	Small swivel + antimist blue
ITMK-G	Small swivel + antimist green
ITMK-Y	Small swivel + antimist yellow

Dan mini sprinkler base



Code	Description
ITMB-2	Minisprinkler base $\frac{1}{2}$ "
ITMBE	Minisprinkler base PE
ITMBM	Minisprinkler base M11
ITMBW	Minisprinkler base $\frac{3}{8}$ " WW
ITMBEL	Minisprinkler base PE + LPD
ITMBML	Minisprinkler base M11 + LPD
ITMBWL	Minisprinkler base WW + LPD

Mini sprinkler accessories

Code	Description
ITMA-B	Antimist only – blue
ITMA-G	Antimist only – green
ITMA-O	Antimist only – orange
ITMA-Y	Antimist only – yellow
ITML 1.5	Dan 1.5 bar LPD only
ITML 4.0	Dan 4.0 bar LPD only
ITMSH	Dan 180 deg spreader only
ITMSS	Dan strip spreader only

Nozzle droppers



Easy method of dropping the mini-sprinklers to a lower height to control spread. Droppers are particularly useful in polytunnels. Incorporate a clever 'Fast and Fast' (FNF) clip which allow nozzles to be moved or capped off very easily.

Code	Description
ITMD	30cm FNF nozzle dropper M11
ITMD60	60cm FNF nozzle dropper M11
ITMDC	Dropper FNF barrel connector
ITMDW30	30cm FNF nozzle dropper $\frac{3}{8}$ "
ITMDW60	60cm FNF nozzle dropper $\frac{3}{8}$ "

**TYPICAL COMBINATION: NAAN MISTING
NOZZLE PLUS BASE, WITH OR WITHOUT
DRAINAGE PREVENTER**

Glue and Tape

Saba glue and cleaner



Saba 914 is a thinner glue used on tight fitting joints, generally up to 32mm in size.

Sabas S3 is thicker and better at gap filling and is generally used on all larger size pipe and fittings.

MEC cleaner may be use where surfaces to be joined are particularly dirty or oily to improve the bond.

Wet 'R' Dry 725 is a quick drying glue for use in wet or dry conditions. Able to withstand pressure in minutes. Full joint strength in 4 hours. Suitable for pipes up to 90mm in size.

Caution: These products contain highly flammable solvents and may cause irritation to eyes and respiratory system. Please take appropriate precautions.

Code	Description
IYGA-1	Saba Glue 914 ¼ litre
IYGA-2	Saba Glue 914 1 litre
IYGB-1	Saba Glue S3 ¼ litre
IYGB-2	Saba Glue S3 1 litre
IYGC-1	Saba Cleaner MEC ¼ litre
IYGC-2	Saba Cleaner MEC 1 litre
IYGW-1	Wet 'R' Dry 725 ¼ litre
IYGW-2	Wet 'R' Dry 725 ½ litre

PTFE tape



Standard PTFE tape for sealing threaded connections.

Code	Description
IYF	PTFE tape 12m

PVC Fittings

Most of the following fittings are manufactured by VDL and are rated 10 bar.

PVC bends - 45°



Code	Description
IPBF032	Bend 45° 32mm x 32mm
IPBF040	Bend 45° 40mm x 40mm
IPBF050	Bend 45° 50mm x 50mm
IPBF063	Bend 45° 63mm x 63mm
IPBF075	Bend 45° 75mm x 75mm
IPBF090	Bend 45° 90mm x 90mm
IPBF110	Bend 45° 110mm x 100mm

PVC bends - 90°



Code	Description
IPBN032	Bend 90° 32mm x 32mm
IPBN040	Bend 90° 40mm x 40mm
IPBN050	Bend 90° 50mm x 50mm
IPBN063	Bend 90° 63mm x 63mm
IPBN075	Bend 90° 75mm x 75mm
IPBN090	Bend 90° 90mm x 90mm
IPBN110	Bend 90° 110mm x 100mm

PVC – S-bends



Code	Description
IPBS032	S Bends 32mm x 32mm
IPBS040	S Bends 40mm x 40mm
IPBS050	S Bends 50mm x 50mm

PVC cross pieces



Code	Description
IPX020	Cross 20 x 20 x 20 x 20mm
IPX025	Cross 25 x 25 x 25 x 25mm
IPX032	Cross 32 x 32 x 32 x 32mm
IPX4032	Cross 40 x 32 x 40 x 32mm
IPX040	Cross 40 x 40 x 40 x 40mm
IPX5032	Cross 50 x 32 x 50 x 32mm
IPX050	Cross 50 x 50 x 50 x 50mm
IPX063	Cross 63 x 63 x 63 x 63mm
IPX075	Cross 75 x 75 x 75 x 75mm
IPX090	Cross 90 x 90 x 90 x 90mm

PVC elbows - 45°



Code	Description
IPEF020	Elbow 45° 20mm x 20mm
IPEF025	Elbow 45° 25mm x 25mm
IPEF032	Elbow 45° 32mm x 32mm
IPEF040	Elbow 45° 40mm x 40mm
IPEF050	Elbow 45° 50mm x 50mm
IPEF063	Elbow 45° 63mm x 63mm
IPEF075	Elbow 45° 75mm x 75mm
IPEF090	Elbow 45° 90mm x 90mm
IPEF110	Elbow 45° 110mm x 110mm

PVC elbows – 90°



Code	Description
IPEN020	Elbow 20mm x 20mm
IPEN025	Elbow 25mm x 25mm
IPEN032	Elbow 32mm x 32mm
IPEN040	Elbow 40mm x 40mm
IPEN050	Elbow 50mm x 50mm
IPEN063	Elbow 63mm x 63mm
IPEN075	Elbow 75mm x 75mm
IPEN090	Elbow 90mm x 90mm
IPEN110	Elbow 110mm x 110mm

PVC elbows – reducing 90°



Code	Description
IPER4032	Elbow 40mm x 32mm
IPER5032	Elbow 50mm x 32mm
IPER5040	Elbow 50mm x 40mm

PVC elbow 90° - male thread



Code	Description
IPET32-5	Elbow 32 x 1¼" M
IPET40-5	Elbow 40 x 1¼" M
IPET50-5	Elbow 50 x 1¼" M

PVC endsets



Code	Description
IPF32-4	Endset 32/40 mm x 1"
IPF40-5	Endset 40/50mm x 1¼"

PVC screw caps



Internal threaded caps complete with rubber washers.

Code	Description
IPFS-2	Screw cap ½" F
IPFS-3	Screw cap ¾" F
IPFS-4	Screw cap 1" F
IPFS-5	Screw cap 1¼" F
IPFS-6	Screw cap 1½" F
IPFS-7	Screw cap 2" F
IPFS-9	Screw cap 3" F

PVC glue caps



Code	Description
IPFG020	Glue cap 20mm
IPFG025	Glue cap 25mm
IPFG032	Glue cap 32mm
IPFG040	Glue cap 40mm
IPFG050	Glue cap 50mm
IPFG063	Glue cap 63mm
IPFG075	Glue cap 75mm
IPFG090	Glue cap 90mm
IPFG110	Glue cap 110mm

PVC equal tees



Code	Description
IPT020	Tee 20 x 20 x 20mm
IPT025	Tee 25 x 25 x 25mm
IPT032	Tee 32 x 32 x 32mm
IPT040	Tee 40 x 40 x 40mm
IPT050	Tee 50 x 50 x 50mm
IPT063	Tee 63 x 63 x 63mm
IPT075	Tee 75 x 75 x 75mm
IPT090	Tee 90 x 90 x 90mm
IPT110	Tee 110 x 110 x 110mm

PVC take off tees – male thread



Code	Description
IPTT25-4	Threaded tee 25 x 1" x 25mm
IPTT32-4	Threaded tee 32 x 1" x 32mm
IPTT32-5	Threaded tee 32 x 1¼" x 32mm
IPTT32-5-2	Threaded tee 1¼" x 32mm x 1¼"
IPTT40-5	Threaded tee 40 x 1¼" x 40mm
IPTT40-5-2	Threaded tee 1¼" x 40 x 1¼"
IPTT40-6	Threaded tee 40 x 1½" x 40mm
IPTT50-6	Threaded tee 50 x 1½" x 50mm
IPTT63-6	Threaded tee 63 x 1½" x 63mm
IPTT75-6	Threaded tee 75 x 1½" x 75mm

PVC reducing tees



Code	Description
IPTR2520	Tee 25 x 20 x 25mm
IPTR3225	Tee 32 x 25 x 32mm
IPTR4025	Tee 40 x 25 x 40mm
IPTR4032	Tee 40 x 32 x 40mm
IPTR5032	Tee 50 x 32 x 50mm
IPTR5040	Tee 50 x 40 x 50mm
IPTR6332	Tee 63 x 32 x 63mm
IPTR6340	Tee 63 x 40 x 63mm
IPTR6350	Tee 63 x 50 x 63mm
IPTR7532	Tee 75 x 32 x 75mm
IPTR7540	Tee 75 x 40 x 75mm
IPTR7550	Tee 75 x 50 x 75mm
IPTR7563	Tee 75 x 63 x 75mm
IPTR9050	Tee 90 x 50 x 90mm
IPTR9063	Tee 90 x 63 x 90mm
IPTR9075	Tee 90 x 75 x 90mm

PVC sockets glue



Code	Description
IPS020	Socket 20mm x 20mm
IPS025	Socket 25mm x 25mm
IPS032	Socket 32mm x 32mm
IPS040	Socket 40mm x 40mm
IPS050	Socket 50mm x 50mm
IPS063	Socket 63mm x 63mm
IPS075	Socket 75mm x 75mm
IPS090	Socket 90mm x 90mm
IPS110	Socket 110mm x 110mm

PVC repair sockets – rubber glue



Push fit repair sockets for PVC pressure pipe.

Code	Description
IPSP050	Repair socket 50mm rubber ring
IPSP063	Repair socket 63mm rubber ring
IPSP075	Repair socket 75mm rubber ring
IPSP090	Repair socket 90mm rubber ring
IPSP110	Repair socket 110mm rubber ring

PVC sockets - reducing



Code	Description
IPSR2520	Socket 25mm x 20mm
IPSR3220	Socket 32mm x 20mm
IPSR3225	Socket 32mm x 25mm
IPSR4032	Socket 40mm x 32mm
IPSR5032	Socket 50mm x 32mm
IPSR5040	Socket 50mm x 40mm
IPSR6350	Socket 63mm x 50mm
IPSR7550	Socket 75mm x 50mm
IPSR7563	Socket 75mm x 63mm
IPSR9075	Socket 90mm x 75mm

PVC sockets - female



Code	Description
IPST-1	Threaded socket 3/8" F x 3/8" F
IPST-2	Threaded socket 1/2" F x 1/2" F
IPST-3	Threaded socket 3/4" F x 3/4" F
IPST-4	Threaded socket 1" F x 1" F
IPST-5	Threaded socket 1 1/4" F x 1 1/4" F
IPST-6	Threaded socket 1 1/2" F x 1 1/2" F
IPST-7	Threaded socket 2" F x 2" F

PVC nipples - male



Code	Description
IPN-A	Nipple 3/8" x 3/8"
IPN-2	Nipple 1/2" x 1/2"
IPN-3	Nipple 3/4" x 3/4"
IPN-4	Nipple 1" x 1"
IPN-5	Nipple 1 1/4" x 1 1/4"
IPN-6	Nipple 1 1/2" x 1 1/2"
IPN-7	Nipple 2" x 2"

PVC reducing nipples



Code	Description
IPNR2-A	Reducing nipple 1/2" x 3/8"
IPNR3-2	Reducing nipple 3/4" x 1/2"
IPNR4-3	Reducing nipple 1" x 3/4"
IPNR5-4	Reducing nipple 1 1/4" x 1"
IPNR6-5	Reducing nipple 1 1/2" x 1 1/4"
IPNR7-6	Reducing nipple 2" x 1 1/2"

PVC reducing rings



Code	Description
IPRR2016	Reducing ring 20mm x 16mm
IPRR2520	Reducing ring 25mm x 20mm
IPRR3216	Reducing ring 32mm x 16mm
IPRR3220	Reducing ring 32mm x 20mm
IPRR3225	Reducing ring 32mm x 25mm
IPRR4025	Reducing ring 40mm x 25mm
IPRR4032	Reducing ring 40mm x 32mm
IPRR5032	Reducing ring 50mm x 32mm
IPRR5040	Reducing ring 50mm x 40mm
IPRR6332	Reducing ring 63mm x 32mm
IPRR6340	Reducing ring 63mm x 40mm
IPRR6350	Reducing ring 63mm x 50mm
IPRR7532	Reducing ring 75mm x 32mm
IPRR7540	Reducing ring 75mm x 40mm
IPRR7550	Reducing ring 75mm x 50mm
IPRR7563	Reducing ring 75mm x 63mm
IPRR9050	Reducing ring 90mm x 50mm
IPRR9063	Reducing ring 90mm x 63mm
IPRR9075	Reducing ring 90mm x 75mm
IPRR11090	Reducing ring 110mm x 90mm

PVC reducing bushes



Code	Description
IPRB20-1	Reducing bush 20mm x 1/4" F
IPRB25-2	Reducing bush 25mm x 1/2" F
IPRB32-2	Reducing bush 32mm x 1/2" F
IPRB32-3	Reducing bush 32mm x 3/4" F
IPRB32-4	Reducing bush 32mm x 1" F
IPRB40-3	Reducing bush 40mm x 3/4" F
IPRB40-4	Reducing bush 40mm x 1" F
IPRB50-4	Reducing bush 50mm x 1" F
IPRB50-5	Reducing bush 50mm x 1 1/4" F
IPRB63-5	Reducing bush 63mm x 1 1/4" F
IPRB63-6	Reducing bush 63mm x 1 1/2" F
IPRB75-6	Reducing bush 75mm x 1 1/2" F
IPRB75-7	Reducing bush 75mm x 2" F

PVC unions



Code	Description
IPU020	Union 20mm x 20mm
IPU025	Union 25mm x 25mm
IPU032	Union 32mm x 32mm
IPU040	Union 40mm x 40mm
IPU050	Union 50mm x 50mm
IPU063	Union 63mm x 63mm
IPU075	Union 75mm x 75mm
IPU090	Union 90mm x 90mm
IPU110	Union 110mm x 110mm

PVC connectors - female



Code	Description
IPCF020-2	Connector 20mm x 1/2" F
IPCF025-2	Connector 25mm x 1/2" F
IPCF032-2	Connector 32mm x 1/2" F
IPCF032-3	Connector 32mm x 3/4" F
IPCF032-4	Connector 32mm x 1" F
IPCF040-4	Connector 40mm x 1" F
IPCF040-5	Connector 40mm x 1 1/4" F
IPCF050-5	Connector 50mm x 1 1/4" F
IPCF050-6	Connector 50mm x 1 1/2" F
IPCF063-6	Connector 63mm x 1 1/2" F
IPCF063-7	Connector 63mm x 2" F
IPCF090-9	Connector 90mm x 3" F

PVC connectors - male



Code	Description
IPC020-2	Connector 20mm x 1/4"
IPC020-3	Connector 20mm x 3/4"
IPC025-2	Connector 25/32mm x 1/2"
IPC025-3	Connector 25/32mm x 3/4"
IPC025-4	Connector 25/32mm x 1"
IPC032-2	Connector 32/40mm x 1/2"
IPC032-3	Connector 32/40mm x 3/4"
IPC032-4	Connector 32/40mm x 1"
IPC032-5	Connector 32/40mm x 1 1/4"
IPC040-4	Connector 40/50mm x 1"
IPC040-5	Connector 40/50mm x 1 1/4"
IPC040-6	Connector 40/50mm x 1 1/2"
IPC050-4	Connector 50/63mm x 1"
IPC050-5	Connector 50/63mm x 1 1/4"
IPC050-6	Connector 50/63mm x 1 1/2"
IPC050-7	Connector 50/63mm x 2"
IPC063-5	Connector 63/75mm x 1 1/4"
IPC063-6	Connector 63/75mm x 1 1/2"
IPC063-7	Connector 63/75mm x 2"
IPC075-7	Connector 75/90mm x 2"
IPC075-9	Connector 75/90mm x 3"
IPC090-9	Connector 90/110mm x 3"

PVC imperial/metric adaptors



Plain imperial pipe to plain PVC – not threaded

Code	Description
IPI20	Adaptor 1/2" x 20mm
IPI25	Adaptor 3/4" x 25mm
IPI32	Adaptor 1" x 32mm
IPI40	Adaptor 1 1/4" x 40mm
IPI50	Adaptor 1 1/2" x 50mm
IPI63	Adaptor 2" x 63mm
IPI90	Adaptor 3" x 90mm

**OTHER IMPERIAL PIPE FITTINGS
AVAILABLE TO ORDER**

PVC/PE fittings



Code	Description
IED20	Connector 25/32 x 20mm PE
IED25	Connector 25/32 x 25mm PE
IED32	Connector 40/32 x 32mm PE
IEE16	Elbow 32 x 16mm PE
IEE20	Elbow 32 x 20mm PE
IEE25	Elbow 32 x 25mm PE

PVC low pressure reducers – glue

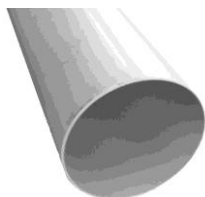


Code	Description
ILRR1211	Reducer 125 x 110mm
ILRR1611	Reducer 160 x 110mm
ILRR1612	Reducer 160 x 125mm
ILRR2012	Reducer 200 x 125mm
ILRR2016	Reducer 200 x 160mm

PVC Low Pressure Pipe

PVC low pressure pipe – class 65

Commonly used for draining water above ground. Other classes and larger pipe diameters are available on request. Plain pipe has a solvent socket at one end. Sizes are external diameter x length.



Code	Description
ILP110	110mm x 5.0m LP pipe
ILP125	125mm x 5.0m LP pipe
ILP160	160mm x 5.0m LP pipe
ILP200	200mm x 5.0m LP pipe

PVC Low Pressure Fittings

PVC low pressure elbows – ring



Code	Description
ILENZ110	Bend 110 x 110mm
ILENZ125	Bend 125 x 125mm
ILENZ160	Bend 160 x 160mm
ILENZ200	Bend 200 x 200mm

PVC low pressure sockets – ring

Push fit, rubber ring fittings.

Code	Description
ILSZ110	Socket 110 x 110mm
ILSZ125	Socket 125 x 125mm
ILSC160	Socket 160 x 160mm
ISLZ200	Socket 200 x 200mm

PVC low pressure tees – ring



Code	Description
ILTZ110	Tee 110 x 110 x 110mm
ILTZ125	Tee 125 x 125 x 125mm
ILTZ160	Tee 160 x 160 x 160mm
ILTZ200	Tee 200 x 200 x 200mm

PVC low pressure caps – glue



Code	Description
ILC110	Cap 110mm glue
ILC125	Cap 125mm glue
ILC160	Cap 160mm glue
ILC200	Cap 200mm glue

OTHER IMPERIAL PIPE FITTINGS
AVAILABLE TO ORDER

Galvanised Pipe

Galvanised pipe with 1" thread at each end. Useful for standpipes and hand watering points.

Galvanised pipe



Code	Description
IQP4-40	1" nominal 40cm threaded
IQP4-80	1" nominal 80cm threaded

Galvanised pipe ring clamp



A galvanised ring clamp for supporting 1" nominal size tube. Base plate and clamp threaded for M10 studding.

Code	Description
IQPC-4	Pipe ring clamp 1"
IQPCB-4	Ring clamp base 1"
GT10	Studding M10 x 1000mm

Galvanised Steel Fittings

Galvanised elbows 45° female



Galvanised steel 45° elbow with female thread both ends.

Code	Description
IQEF2	Galv. 45° F/F elbow 1/2"
IQEF3	Galv. 45° F/F elbow 3/4"
IQEF4	Galv. 45° F/F elbow 1"
IQEF5	Galv. 45° F/F elbow 1 1/4"
IQEF6	Galv. 45° F/F elbow 1 1/2"
IQEF7	Galv. 45° F/F elbow 2"

Galvanised elbow 45° female/male



Galvanised steel 45° elbow with male thread one end and female thread the other end.

Code	Description
IQEFM2	Galv. 45° F/M elbow 1/2"
IQEFM3	Galv. 45° F/M elbow 3/4"
IQEFM4	Galv. 45° F/M elbow 1"

Galvanised elbows 90° female



Galvanised steel 90° elbow with female thread both ends.

Code	Description
IQEN2	Galv. 90° F/F elbow 1/2"
IQEN3	Galv. 90° F/F elbow 3/4"
IQEN4	Galv. 90° F/F elbow 1"
IQEN5	Galv. 90° F/F elbow 1 1/4"
IQEN6	Galv. 90° F/F elbow 1 1/2"
IQEN7	Galv. 90° F/F elbow 2"

Galvanised elbows – 90° female/male



Galvanised steel 90° elbow with male thread one end and female thread the other end.

Code	Description
IQENM2	Galv. 90° F/M elbow 1/2"
IQENM3	Galv. 90° F/M elbow 3/4"
IQENM4	Galv. 90° F/M elbow 1"
IQENM5	Galv. 90° F/M elbow 1 1/4"
IQENM6	Galv. 90° F/M elbow 1 1/2"
IQENM7	Galv. 90° F/M elbow 2"

Galvanised equal tees – female



Galvanised steel equal female tee.

Code	Description
IQT2	Galv. equal tee 1/2"
IQT3	Galv. equal tee 3/4"
IQT4	Galv. equal tee 1"
IQT5	Galv. equal tee 1 1/4"
IQT6	Galv. equal tee 1 1/2"
IQT7	Galv. equal tee 2"

Galvanised sockets – female



Galvanised steel socket with female thread both ends.

Code	Description
IQS2	Galv. socket 1/2"
IQS3	Galv. socket 3/4"
IQS4	Galv. socket 1"
IQS5	Galv. socket 1 1/4"
IQS6	Galv. socket 1 1/2"
IQS7	Galv. socket 2"

Galvanised reducing sockets – female



Galvanised reducing socket with female thread both ends.

Code	Description
IQSR3-2	Galv. reducing socket 3/4" x 1/2"
IQSR4-2	Galv. reducing socket 1" x 1/2"
IQSR4-3	Galv. reducing socket 1" x 3/4"
IQSR5-4	Galv. reducing socket 1 1/4" x 1"
IQSR6-3	Galv. reducing socket 1 1/2" x 3/4"
IQSR6-4	Galv. reducing socket 1 1/2" x 1"
IQSR6-5	Galv. reducing socket 1 1/2" x 1 1/4"
IQSR7-4	Galv. reducing socket 2" x 1"
IQSR7-5	Galv. reducing socket 2" x 1 1/4"
IQSR7-6	Galv. reducing socket 2" x 1 1/2"

Galvanised equal nipples – male



Galvanised steel equal nipples with male thread both ends.

Code	Description
IQN2	Galv. nipple 1/2"
IQN3	Galv. nipple 3/4"
IQN4	Galv. nipple 1"
IQN5	Galv. nipple 1 1/4"
IQN6	Galv. nipple 1 1/2"
IQN7	Galv. nipple 2"

Galvanised reducing nipples – male



Galvanised steel reducing nipple with male thread both ends

Code	Description
IQNR3-2	Galv. reducing nipple 3/4" x 1/2"
IQNR4-2	Galv. reducing nipple 1" x 1/2"
IQNR4-3	Galv. reducing nipple 1" x 3/4"
IQNR5-2	Galv. reducing nipple 1 1/4" x 1/2"
IQNR5-3	Galv. reducing nipple 1 1/4" x 3/4"
IQNR5-4	Galv. reducing nipple 1 1/4" x 1"
IQNR6-4	Galv. reducing nipple 1 1/2" x 1"
IQNR6-5	Galv. reducing nipple 1 1/2" x 1 1/4"
IQNR7-4	Galv. reducing nipple 2" x 1"
IQNR7-5	Galv. reducing nipple 2" x 1 1/4"
IQNR7-6	Galv. reducing nipple 2" x 1 1/2"

Galvanised reducing bushes



Galvanised steel reducing bush, male/female thread.

Code	Description
IQBR2-1	Galv. reducing bush 1/2" x 1/4"
IQBR3-2	Galv. reducing bush 3/4" x 1/2"
IQBR4-2	Galv. reducing bush 1" x 1/2"
IQBR4-3	Galv. reducing bush 1" x 3/4"
IQBR5-2	Galv. reducing bush 1 1/4" x 1/2"
IQBR5-3	Galv. reducing bush 1 1/4" x 3/4"
IQBR5-4	Galv. reducing bush 1 1/4" x 1"
IQBR6-2	Galv. reducing bush 1 1/2" x 1/2"
IQBR6-3	Galv. reducing bush 1 1/2" x 3/4"
IQBR6-4	Galv. reducing bush 1 1/2" x 1"
IQBR6-5	Galv. reducing bush 1 1/2" x 1 1/4"
IQBR7-2	Galv. reducing bush 2" x 1/2"
IQBR7-4	Galv. reducing bush 2" x 1"
IQBR7-5	Galv. reducing bush 2" x 1 1/4"
IQBR7-6	Galv. reducing bush 2" x 1 1/2"

Galvanised unions – female



Galvanised steel union, female both ends.

Code	Description
IQU2	Galv. F/F union ½"
IQU3	Galv. F/F union ¾"
IQU4	Galv. F/F union 1"
IQU5	Galv. F/F union 1¼"
IQU6	Galv. F/F union 1½"
IQU7	Galv. F/F union 2"

Galvanised cap – female



Galvanised steel female cap.

Code	Description
IQFS-2	Galv. cap ½"
IQFS-3	Galv. cap ¾"
IQFS-4	Galv. cap 1"
IQFS-5	Galv. cap 1¼"
IQFS-6	Galv. cap 1½"
IQFS-7	Galv. cap 2"

PE Tube

Low density PE tube (LDPE) 4 bar



Good quality LDPE tube for irrigation lateral lines. Suitable for use inside or outside.

Code	Description
IET05-2	LDPE tube 5 x 3mm x 200m
IET08-1	LDPE tube 8 x 6mm x 100m
IET12-1	LDPE tube 12 x 10mm x 100m
IET12-2	LDPE tube 12 x 10mm x 100m
IET16-1	LDPE tube 16 x 13.6mm x 100m
IET16-2	LDPE tube 16 x 13.6mm x 200m
IET20-1	LDPE tube 20 x 17mm x 100m
IET20-2	LDPE tube 20 x 17mm x 200m
IET20-5	LDPE tube 20 x 17mm x 500m
IET25-1	LDPE tube 25 x 21mm x 100m
IET32-1	LDPE tube 32 x 26.6mm x 100m

10/12 BAR PE TUBE

ALSO AVAILABLE FOR UNDERGROUND USE

Medium density PE tube (MDPE) - blue 12.5 bar



Blue MDPE conforms to BS6572 Spec. SDR 11 for drinking water. Sold in 25m, 50m and 100m rolls.

Code	Description
IETMB20-A	MDPE tube blue 20mm x 25m
IETMB20-B	MDPE tube blue 20mm x 50m
IETMB20-1	MDPE tube blue 20mm x 100m
IETMB25-A	MDPE tube blue 25mm x 25m
IETMB25-B	MDPE tube blue 25mm x 50m
IETMB25-1	MDPE tube blue 25mm x 100m
IETMB32-A	MDPE tube blue 32mm x 25m
IETMB32-B	MDPE tube blue 32mm x 50m
IETMB32-1	MDPE tube blue 32mm x 100m
IETMB50-A	MDPE tube blue 50mm x 25m
IETMB50-B	MDPE tube blue 50mm x 50m
IETMB50-1	MDPE tube blue 50mm x 100m
IETMB63-A	MDPE tube blue 63mm x 25m
IETMB63-B	MDPE tube blue 63mm x 50m
IETMB63-1	MDPE tube blue 63mm x 100m

50 and 63mm MDPE subject to additional delivery charge.

Heating Tube

Low density PE tube (LDPE) 6 bar

6 bar tube normally used for floor and intercrop heating.

Code	Description
IET25H-1	LDPE tube 25mm x 100m
IET32H-1	LDPE tube 32mm x 100m

Ribbed PE tube - heating



A ribbed tube for floor and bench heating systems.

Rated for a maximum of 80° C with a suggested working temperature of 60°C.

Code	Description
IETR25	Ribbed tube 25mm x 250m

PE hose support clip



A clip for holding PE tube to a straining wire in drip and heating systems.

Code	Description
IEH16	Support clip 16mm
IEH20	Support clip 20mm
IEH25	Support clip 25mm
IEH32	Support clip 32mm

PE Tube Compression Fittings

PE tube fittings are sized according to the outside diameter of the tube they fit. Each connection consists of a collar, an insert and the body which has an internal O-ring. To assemble a joint, first slide the collar onto the tube. Then push the insert about 1cm onto the tube. The insert is barbed internally so it will slide onto the tube but not off. The tube is then pushed firmly into the body, past the O-ring until it can go no further. The collar can then be screwed up, clamping the insert and tube onto the body of the fitting.

Maximum working temperature 80°C

Maximum pressure at 20°C: 10 bar

PE tube couplings



Code	Description
IECP20	PE coupling 20 x 20mm
IECP25	PE coupling 25 x 25mm
IECP32	PE coupling 32 x 32mm
IECP40	PE coupling 40 x 40mm
IECP50	PE coupling 50 x 50mm
IECP63	PE coupling 63 x 63mm

PE tube endsets



Code	Description
IEF20	PE endsets 20mm
IEF25	PE endsets 25mm
IEF32	PE endsets 32mm
IEF40	PE endsets 40mm
IEF50	PE endsets 50mm
IEF63	PE endsets 63mm

PE tube elbows - 90°



Code	Description
IEEN20	PE elbow 20 x 20mm
IEEN25	PE elbow 25 x 25mm
IEEN32	PE elbow 32 x 32mm
IEEN40	PE elbow 40 x 40mm
IEEN50	PE elbow 50 x 50mm
IEEN63	PE elbow 63 x 63mm

PE tube elbows – male thread



Code	Description
IEET32-4	PE elbow 32mm x 1" M
IEET32-5	PE elbow 32mm x 1¼" M
IEET40-4	PE elbow 40mm x 1" M
IEET40-5	PE elbow 40mm x 1¼" M
IEET40-6	PE elbow 40mm x 1½" M
IEET50-6	PE elbow 50mm x 1½" M
IEET50-7	PE elbow 50mm x 2" M

PE tube elbows - female



Code	Description
IEETF32-4	PE elbow 32mm x 1" F
IEETF32-5	PE elbow 32mm x 1¼" F
IEETF40-4	PE elbow 40mm x 1" F
IEETF40-5	PE elbow 40mm x 1¼" F
IEETF40-6	PE elbow 40mm x 1½" F
IEETF50-6	PE elbow 50mm x 1½" F
IEETF50-7	PE elbow 50mm x 2" F

PE tube adaptors – female thread



Code	Description
IEAF20-2	PE adaptor 20mm x 1/2" F
IEAF20-3	PE adaptor 20mm x 3/4" F
IEAF20-4	PE adaptor 20mm x 1" F
IEAF25-2	PE adaptor 25mm x 1/2" F
IEAF25-3	PE adaptor 25mm x 3/4" F
IEAF25-4	PE adaptor 25mm x 1" F
IEAF32-3	PE adaptor 32mm x 3/4" F
IEAF32-4	PE adaptor 32mm x 1" F
IEAF32-5	PE adaptor 32mm x 1 1/4" F
IEAF40-4	PE adaptor 40mm x 1" F
IEAF40-5	PE adaptor 40mm x 1 1/4" F
IEAF40-6	PE adaptor 40mm x 1 1/2" F
IEAF50-5	PE adaptor 50mm x 1 1/4" F
IEAF50-6	PE adaptor 50mm x 1 1/2" F
IEAF50-7	PE adaptor 50mm x 2" F
IEAF63-6	PE adaptor 63mm x 1 1/2" F
IEAF63-7	PE adaptor 63mm x 2" F

PE tube adaptors – male thread



Code	Description
IEAM20-2	PE adaptor 20mm x 1/2" M
IEAM20-3	PE adaptor 20mm x 3/4" M
IEAM25-2	PE adaptor 25mm x 1/2" M
IEAM25-3	PE adaptor 25mm x 3/4" M
IEAM25-4	PE adaptor 25mm x 1" M
IEAM32-3	PE adaptor 32mm x 3/4" M
IEAM32-4	PE adaptor 32mm x 1" M
IEAM32-5	PE adaptor 32mm x 1 1/4" M
IEAM40-4	PE adaptor 40mm x 1" M
IEAM40-5	PE adaptor 40mm x 1 1/4" M
IEAM40-6	PE adaptor 40mm x 1 1/2" M
IEAM50-6	PE adaptor 50mm x 1 1/2" M
IEAM50-7	PE adaptor 50mm x 2" M
IEAM63-6	PE adaptor 63mm x 1 1/2" M
IEAF63-7	PE adaptor 63mm x 2" M

PE tube tees 90°



Code	Description
IEV20	PE tee 20 x 20 x 20mm
IEV25	PE tee 25 x 25 x 25mm
IEV32	PE tee 32 x 32 x 32mm
IEV40	PE tee 40 x 40 x 40mm
IEV50	PE tee 50 x 50 x 50mm
IEV63	PE tee 63 x 63 x 63mm

PE tube tees – female thread



Code	Description
IEVTF20-2	PE tee 20 x 1/2" F x 20mm
IEVTF25-3	PE tee 25 x 3/4" F x 25mm
IEVTF32-4	PE tee 32 x 1" F x 32mm
IEVTF32-5	PE tee 32 x 1 1/4" F x 32mm
IEVTF40-4	PE tee 40 x 1" F x 40mm
IEVTF40-5	PE tee 40 x 1 1/4" F x 40mm
IEVTF40-6	PE tee 40 x 1 1/2" F x 40mm
IEVTF50-6	PE tee 50 x 1 1/2" F x 50mm
IEVTF50-7	PE tee 50 x 2" F x 50mm
IEVTF63-6	PE tee 63 x 1 1/2" F x 63mm
IEVTF63-7	PE tee 63 x 2" F x 63mm

PE tube tees – male thread



Code	Description
IEVT32-4	PE tee 32 x 1" M x 32mm
IEVT40-5	PE tee 40 x 1 1/4" M x 40mm
IEVT50-6	PE tee 50 x 1 1/2" M x 50mm
IEVT63-7	PE tee 63 x 2" M x 63mm

PE reducing tees



Code	Description
IEVR2520	PE reducing tee 25/20/25mm
IEVR3225	PE reducing tee 32/25/32mm
IEVR4032	PE reducing tee 40/32/40mm
IEVR5040	PE reducing tee 50/40/50mm
IEVR6350	PE reducing tee 65/50/63mm
IEVR7563	PE reducing tee 75/63/75mm

Plastic saddles



Plastic saddles with a female BSP thread. Ideal for many uses such as mounting sprinklers straight onto lateral lines.

Code	Description
IS20-2	PE saddle 20mm x 1/2" F
IS25-2	PE saddle 25mm x 1/2" F
IS25-3	PE saddle 25mm x 3/4" F
IS32-2	PE saddle 32mm x 1/2" F
IS32-3	PE saddle 32mm x 3/4" F
IS32-4	PE saddle 32mm x 1" F
IS40-3	PE saddle 40mm x 3/4" F
IS40-4	PE saddle 40mm x 1" F
IS50-3	PE saddle 50mm x 3/4" F
IS50-4	PE saddle 50mm x 1" F
IS63-3	PE saddle 63mm x 3/4" F
IS63-4	PE saddle 63mm x 1" F
IS63-5	PE saddle 63mm x 1 1/4" F
IS63-6	PE saddle 63mm x 1 1/2" F

PE quick coupling valve



Self sealing coupling for quick connections.

Code	Description
IVD	PE complete coupling unit
IVDC	PE coupler
IVDV	PE coupling valve only

PE Tube Barbed Fittings

PE tube barbed fittings are sized according to the outside diameter of the standard LDPE tube they fit.



Code	Description
IBC16	Barbed connectors 16 x 16mm
IBC20	Barbed connectors 20 x 20mm
IBC25	Barbed connectors 25 x 25mm
IBC32	Barbed connectors 32 x 32mm

Barbed adaptors



Female and male barbed connectors

Code	Description
IBCF16-3	Barbed adaptor 16mm x 3/4" F
IBCF20-3	Barbed adaptor 20mm x 3/4" F
IBCF25-3	Barbed adaptor 25mm x 3/4" F
IBCM16-2	Barbed adaptor 16mm x 1/2" M
IBCM16-3	Barbed adaptor 16mm x 3/4" M
IBCM20-2	Barbed adaptor 20mm x 1/2" M
IBCM20-3	Barbed adaptor 20mm x 3/4" M
IBCM25-3	Barbed adaptor 25mm x 3/4" M
IBCM25-4	Barbed adaptor 25mm x 2" M
IBCM32-4	Barbed adaptor 32mm x 1" M

Barbed elbows



Code	Description
IBE16	Barbed elbow 16 x 16mm
IBE20	Barbed elbow 20 x 20mm
IBE25	Barbed elbow 25 x 25mm
IBE32	Barbed elbow 32 x 32mm

Barbed take-offs



Code	Description
IBGT16	Grommet take-off 16mm
IBGT20	Grommet take-off 20mm
IBGTS16	Strap take-off 16mm
IBGTG	Grommet only

Barbed tees



Code	Description
IBT16	Barbed tee 16 x 16 x 16mm
IBT20	Barbed tee 20 x 20 x 20mm
IBT25	Barbed tee 25 x 25 x 25mm
IBT32	Barbed tee 32 x 32 x 32mm
IBTR2016	Barbed tee 20 x 16 x 20mm
IBTR2516	Barbed tee 25 x 16 x 25mm
IBTR2520	Barbed tee 25 x 20 x 25mm

Barbed tees 90° male



Code	Description
IBTT16-2	Barbed tee 16mm x 1/2" M x 16
IBTT16-3	Barbed tee 16mm x 3/4" M x 16
IBTT20-3	Barbed tee 20mm x 3/4" M x 20
IBTT25-2	Barbed tee 25mm x 1/2" M x 25
IBTT25-3	Barbed tee 25mm x 3/4" M x 25
IBTT25-4	Barbed tee 25mm x 1" M x 25
IBTT32-4	Barbed tee 32mm x 1" M x 32

Barbed in-line valves



A useful valve for isolating individual drip lines.

Code	Description
IBV16	Barbed in-line valve 16mm
IBV20	Barbed in-line valve 20mm
IBV25	Barbed in-line valve 25mm

Barbed plugs



Code	Description
IBP16	Barbed plug 16mm
IBP20	Barbed plug 20mm

Polypropylene Fittings

Useful conversion components. Various other components available.

Polypropylene sockets - female



Code	Description
IOS2	PP socket 1/2"
IOS3	PP socket 3/4"
IOS4	PP socket 1"
IOS5	PP socket 1 1/4"
IOS6	PP socket 1 1/2"
IOS7	PP socket 2"

Polypropylene reducing sockets - female



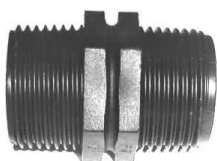
Code	Description
IOSR3-2	PP reducing socket 3/4" x 1/2"
IOSR4-2	PP reducing socket 1" x 1/2"
IOSR4-3	PP reducing socket 1" x 3/4"
IOSR5-4	PP reducing socket 1 1/4" x 1"
IOSR6-4	PP reducing socket 1 1/2" x 1"
IOSR6-5	PP reducing socket 1 1/2" x 1 1/4"
IOSR7-3	PP reducing socket 2" x 3/4"
IOSR7-4	PP reducing socket 2" x 1"
IOSR7-6	PP reducing socket 2" x 1 1/2"

Polypropylene tees - female



Code	Description
IOT2	PP tee 1/2"
IOT3	PP tee 3/4"
IOT4	PP tee 1"
IOT5	PP tee 1 1/4"
IOT6	PP tee 1 1/2"
IOT7	PP tee 2"

Polypropylene nipples - male



Code	Description
ION2	PP nipple 1/2"
ION3	PP nipple 3/4"
ION4	PP nipple 1"
ION5	PP nipple 1 1/4"
ION6	PP nipple 1 1/2"
ION7	PP nipple 2"

Polypropylene reducing nipple - male



Code	Description
IONR3-2	PP reducing nipple 3/4" x 1/2"
IONR4-2	PP reducing nipple 1" x 1/2"
IONR4-3	PP reducing nipple 1" x 3/4"
IONR5-3	PP reducing nipple 1 1/4" x 3/4"
IONR5-4	PP reducing nipple 1 1/4" x 1"
IONR6-4	PP reducing nipple 1 1/2" x 1"
IONR6-5	PP reducing nipple 1 1/2" x 1 1/4"
IONR7-4	PP reducing nipple 2" x 1"
IONR7-5	PP reducing nipple 2" x 1 1/4"
IONR7-6	PP reducing nipple 2" x 1 1/2"

Polypropylene reducing bush – female/male



Code	Description
IOB3-2	PP reducing bush 3/4" M x 1/2" F
IOB4-2	PP reducing bush 1" M x 1/2" F
IOB4-3	PP reducing bush 1" M x 3/4" F
IOB5-2	PP reducing bush 1 1/4" M x 1/2" F
IOB5-3	PP reducing bush 1 1/4" M x 3/4" F
IOB5-4	PP reducing bush 1 1/4" M x 1" F
IOB6-2	PP reducing bush 1 1/2" M x 1/2" F
IOB6-3	PP reducing bush 1 1/2" M x 3/4" F
IOB6-4	PP reducing bush 1 1/2" M x 1" F
IOB6-5	PP reducing bush 1 1/2" M x 1 1/4" F
IOB7-2	PP reducing bush 2" M x 1/2" F
IOB7-3	PP reducing bush 2" M x 3/4" F
IOB7-4	PP reducing bush 2" M x 1" F
IOB7-5	PP reducing bush 2" M x 1 1/4" F
IOB7-6	PP reducing bush 2" M x 1 1/2" F

Polypropylene screw cap



A screw cap that can be used with barbed male adaptors to make an endset.

Code	Description
IBFS-2	PP screw cap 1/2"
IBFS-3	PP screw cap 3/4"
IBFS-4	PP screw cap 1"
IBFS-5	PP screw cap 1 1/4"
IBFS-6	PP screw cap 1 1/2"
IBFS-7	PP screw cap 2"

Capillary Drip Lead

Capillary drip lead

Our most popular drip lead. No dripper required. Output regulated by bore or capillary tube in litres/hour @ 0.5 bar.



Code	Description
IDL1	85cm capillary leads 1 l/h
IDL2	85cm capillary leads 2 l/h
IDL3	85cm capillary lead 3 l/h
IDL4	85cm capillary leads 4 l/h
IDSS	Spike stakes, black
IDLPC	Capillary tube hole punch plastic
IDLPCM	Capillary tube hole punch metal

Drippers

Netafim CNL 4 way drippers

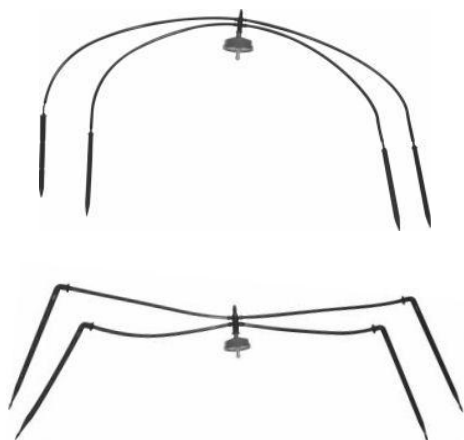


The CNL (compensating non-leakage nozzle) consists of a pressure compensating anti-drip device, fitted directly into 20 or 25mm PE tube for use with manifold sets – see next page.

Code	Description
IDLNC	CNL dripper 2 litre/hr
IDLNC4	CNL dripper 4 litre/hr
IDLNC8	CNL dripper 8 litre/hr

Manifold sets

The CNL set comprises of a nozzle, manifold with 4 leads and arrow stakes attached. This allows 4 plants to be irrigated by one CNL dripper, reducing costs. When the pressure drops below 1.5m, the dripper closes.



Input pressure compensating range: 10 – 40m
 Anti-drip closing pressure: 1.5m
 CNL output: 8ltr/hour
 Arrow stake output: 2ltr/hour
 Other flow rates on request

Code	Description
IDLNCS	CNL set no dripper 4 stakes
IDLNCSS	CNL set no dripper 4 S stakes
IDLNCSD	CNL set – dripper + 4 stakes
IDLNCSDS	CNL set – dripper + 4 S stakes
IDSA	Arrow labyrinth stake
IDSAS	Arrow labyrinth S stake
IDLNCM	CNL manifold

Netafim PCJ CNL drippers



Pressure compensating dripper which give uniform output and do not leak after use. Very useful on sloping sites and very long lateral lines. Barbed to fit directly onto the lateral line.

Code	Description
IDLNP2	PCJCNL dripper 2 ltr
IDLNP3	PCJCNL dripper 3 ltr
IDLNP4	PCJCNL dripper 4 ltr

PCJ CNL sets



PCJ set comes with dripper, 80cm lead and a choice of Arrow/Arrow S drippers or Prevo stakes.

Code	Description
IDLNPSA2	PCJ Arrow dripper set 2 ltr
IDLNPSA3	PCJ Arrow dripper set 3 ltr
IDLNPSA4	PCJ Arrow dripper set 4 ltr
IDLNPSAS2	PCJ Arrow S dripper set 2 ltr
IDLNPSAS3	PCJ Arrow S dripper set 3 ltr
IDLNPSAS4	PCJ Arrow S dripper set 4 ltr
IDLNPSP2	PCJ set Prevo stake 2 ltr
IDLNPSP3	PCJ set Prevo stake 3 ltr
IDLNPSP4	PCJ set Prevo stake 4 ltr

Pot dripper (unregulated)



Threaded to screw into 3/5mm lead.

Code	Description
IDLNN1	Plant pot dripper 1 ltr/hr
IDLNN2	Plant pot dripper 2 ltr/hr
IDLNN4	Plant pot dripper 4 ltr/hr

Netafim button dripper



Barbed to fit directly into the lateral line.

Code	Description
IDLNB1	Button dripper 1 ltr/hr
IDLNB2	Button dripper 2 ltr/hr
IDLNB4	Button dripper 4 ltr/hr

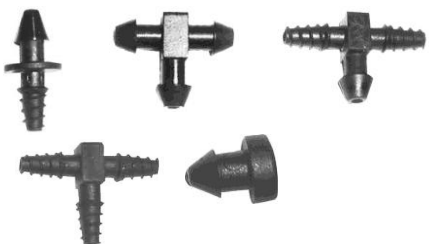
Woodpecker dripper sets



Barbed to fit directly into the lateral line.
Woodpecker set comes with dripper, 80cm lead and straight or 45° stake.

Code	Description
IDLNW1	Woodpecker dripper 1ltr / hr
IDLNW2	Woodpecker dripper 2ltr / hr
IDLNW4	Woodpecker dripper 4ltr / hr
IDLNW8	Woodpecker dripper 8ltr / hr
IDLNWS2	Woodpecker dripper set 2 ltr
IDLNWS4	Woodpecker dripper set 4 ltr
IDLNWSS2	Woodpecker S dripper set 2 ltr
IDLNWSS4	Woodpecker S dripper set 4 ltr

Drip irrigation – accessories



Code	Description
IET05-2	Drip lead 5 x 3mm 200 metres
IDL5	Drip lead 5 x 3mm 80cm
IDN	5mm nipple
IDNT	5mm barbed tee
IDNT-1	5mm barb/threaded tee
IDNT-2	5mm threaded tee
IDLD	Pot pecker blanking cap
IDLL5	5mm repair plug

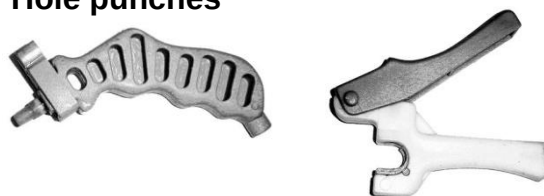
**CALL TODAY FOR ADVICE ON THE BEST
DRIPPER FOR YOUR APPLICATION**

Drip irrigation - stakes



Code	Description
IDSX18	18 l/h spray stake
IDSA	Arrow stake
IDSAS	Arrow stake S
IDSP	Prevo stake
IDSPS	Prevo S stake
IDSC	Clamp stake 5/7mm

Hole punches



3mm punch for barbed nozzles and nipples.

Code	Description
IDL P	PE hole punch 3mm
IDL PQ20-3	Quick cut punch 3mm 16/20

Drip system valve



Code	Description
IDV	Drip system valve 3/4" F x 3/4" M

**DRIP IRRIGATION CAN BE SUPPLIED READY
FITTED ON ROLLS AT ALMOST ANY SPACING**

Dripperlines

UNIRAM dripperline 20mm

A non-leakage, pressure compensated dripperline for surface and sub-surface irrigation. Uniram will maintain a uniform flow rate with pressure from 10 to 40m.

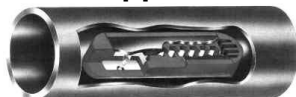
Output 2.3 l/hr per nozzle, equivalent to 9.2 l/m/hour.

Tube diameter: 20mm. Roll length: 300m

Ideal for alstromeria growers.

Code	Description
IHLU25	RAM dripperline 25cm

RAM dripperline 17mm



Pressure compensated dripperline – gives a constant output over a wide pressure range to ensure even output over long run lengths and sloping ground.

Output per dripper: 1.6 or 2.3 litres/hour

Pressure range: 5-40m

Tube diameter: 17mm. Roll length: 400m

Code	Description
IHLR30-B	RAM dripperline 1.6 l/h 30cm
IHLR40-B	RAM dripperline 1.6 l/h 40cm
IHLR50-B	RAM dripperline 1.6 l/h 50cm
IHLR60-B	RAM dripperline 1.6 l/h 60cm

Streamline 80 dripperline 16mm



Thin walled dripperline with integral injection moulded drippers. Resistant to blocking with excellent uniformity.

Output per dripper: 1.05 l/h

Maximum operating pressure: 8.5m

Tube diameter: 16mm. Roll length: 1000m

Code	Description
IHLS10	Streamline dripperline 80 – 10
IHLS15	Streamline dripperline 80 – 15
IHLS20	Streamline dripperline 80 – 20
IHLS30	Streamline dripperline 80 – 30

Prices for 2.3 litres/hour on request.

Dripnet PC 16mm



On-surface or sub-surface tape for use in row crops.

Superior turbulent flow regime. Wide filtration area, High resistance to clogging. 20 & 30cm distance between drippers. Output per dripper: 0.6 or 1.0 l/hr.

Pressure range 4-25m.

20cm comes in 900m rolls. 30cm comes in 1000m rolls.

Code	Description
IHLI20-A	Dripnet 1 l/hr 20cm spacing
IHLI20-B	Dripnet 0.6 l/hr 20cm spacing
IHLI30-A	Dripnet 1 l/hr 30cm spacing
IHLI30-B	Dripnet 0.6 l/hr 30cm spacing

Dripnet / Streamline 16mm connectors

Code	Description
IHLT-1	16mm PE to tape
IHLT-2	Tape to tape 16mm
IHLT-3	Tee-tape to 3/4" F to tape
IHLT-4	3/4" BSP to tape
IHLT-5	Grommet to tape

T Tape dripperline 9.5mm



A 9.5mm diameter drip tape ideal for glasshouses, nurseries and row crop installations with shorter runs. The tape has emitters at 15cm and will give an output of 0.68 l/hr per metre. The uniformity over a 60m run is 95%.

T Tape fittings on request.

Code	Description
IHLA	9.5mm dia. 1675m roll

Layflat

Polythene Layflat

Popular black polythene tube with holes 5mm from the side spaced at 20cm. Output 2.2 litres/hour at 4 psi.

Code	Description
IHLD-2	DKB2 layflat 20cm x 500m

Porous Pipe

Porous pipe



A rubber porous pipe for various irrigation purposes. It should be used at a pressure of between 4-12 psi. The maximum run length is 50 metres and the output is 4 litres / hour / metre. The pipe can be used for both surface and sub surface irrigation and to water capillary matting on benches.

Connect with 16mm barbed fittings.

Code	Description
IHLP-B	Porous pipe 16mm x 50m
IHLP-1	Porous pipe 16mm x 100m

Sprinklers

There are very many types of sprinklers suitable for a wide range of tasks. The sprinklers we use most often are listed below. Other types of sprinkler can be supplied on request.

Part Circle Sprinklers

Part circle plastic sprinklers

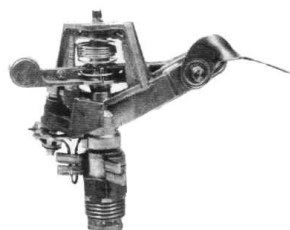


Part circle plastic sprinklers with ratchet fingertip adjustment for watering full circle or any part of it. Baffle deflector adjustable by a regulator nut allowing change to both height and range of jet. Diffuser pin adjusts from heavy to fine stream.

Nozzle size in mm	Pressure in bar	Output in m ³ / hr	Diameter coverage
2.8	1.5	0.38	21
	2.0	0.45	22
	3.0	0.55	23
	4.0	0.63	24
4.0	1.0	0.60	21
	2.0	0.85	24
	3.0	1.03	26
	4.0	1.18	26

Code	Description
ITCP	Part circle ½" plastic 2.8mm
ITCP-2	Part circle ½" plastic 4mm

Part circle metal sprinkler



Part circle metal sprinklers with fingertip adjustment for watering full 26m circle or any part of it. Baffle deflector controls height of jet and diameter or circle. Diffuser pin adjusts from heavy to fine stream.

Nozzle size in mm	Pressure in bar	Output in m ³ / hr	Diameter coverage
4.0	1.5	0.73	23
	2.0	0.85	25
	3.0	1.03	27
	4.0	1.18	28

Code	Description
ITCB	Part circle ½" M brass 4mm

Whisper sprinkler



Compact gear drive. Full and part circle sprinkler with an impact plastic construction and a protected mechanism and fine filter.

Radius controlled by deflector 5-11.5m. Spacing between sprinklers up to 12.0m. Complete with 4.0mm standard nozzle.

Nozzle size in mm	Pressure in bar	Output in m ³ / hr	Diameter coverage
4.0	1.5	0.73	19.5
	2.0	0.85	21.0
	3.0	1.03	22.0
	4.0	1.18	23.0

Code	Description
ITW2	Whisper sprinkler ½" M

Full Circle Sprinklers

Heavy duty and frost protection sprinkler



Heavy duty sprinkler giving and increased diameter of coverage at medium and high pressures. Ideal for all field crops, vegetables and overhead irrigation of orchards. Equipped with a special plastic hood to protect spring for rough handling conditions and for anti-frost irrigation.

Nozzle size in mm	Pressure in bar	Output in m ³ / hr	Diameter coverage
4.9	3.0	1.58	32
	4.0	1.81	34
	5.0	2.02	34

Code	Description
ITH3	Heavy duty sprinkler ¾" F

VARIOUS SPRINKLER STANDS ON PAGE 30

Rotoframe sprinklers



Unique lower pressure sprinkler featuring butterfly type rotating spinner and rotary frame which provides even water distribution.

Nozzle size in mm	Pressure in bar	Output In m ³ / hr	Diameter coverage
4.5	0.5	0.48	8.1
	1.0	0.66	11.3
	1.5	0.83	13.8
	2.0	0.95	15.9

Code	Description
ITR	Rotoframe ½" F
ITR3	Rotoframe ¾" F

Naan 501 U sprinklers



Extra range, turbo hammer, low capacity sprinkler, with excellent water distribution. Ideal for vegetables, nurseries, parks and gardens. Turbo operation ensures uniformity of watered areas, the 501 U has very low precipitation rates and fine drops for sensible crop germination.

See page 30 for field stands.

Nozzle size in mm	Pressure in bar	Output In m ³ / hr	Diameter coverage
1.8	1.5	0.138	12.0
	2.0	0.160	13.0
	3.0	0.196	14.0
2.0	1.5	0.170	14.5
	2.0	0.195	15.0
	4.0	0.236	15.0

Code	Description
ITNT1.8	Naan 501 U sprinkler 1.8
ITNT2	Naan 501 U sprinkler 2.0

VARIOUS SPRINKLER STANDS ON PAGE 30

Popstar plus sprinkler



Part/full circle pop-up with arc memory. A water lubricated turbo gear drive sprinkler with an adjustable arc from 40° - 360°. Special nozzle shape creates close to sprinkler watering up to 30% reduced radius by diffuser – screw adjustment. Durable plastic and stainless steel materials. Complete with No 2, 3, 4, 6, 8 & 9 nozzle.

Nozzle size in mm	Pressure in bar	Output In m ³ / hr	Diameter coverage	
			Min	Max
2.5	2.0	5.17	10	20
	3.0	6.50	11	21
	4.0	7.50	12	21
2.0	2.0	8.67	15	22
	3.0	11.17	16	23
	4.0	13.00	16	23
4.0	2.0	14.17	14	22
	3.0	18.33	17	24
	4.0	21.17	18	25

Code	Description
ITQP3	Popstar plus sprinkler ¾"

MP 2000 rotator



A water conservation tool. Multi-trajectory rotating streams provide unmatched uniformity. Automatic matched precipitation. Low application rate reduces runoff on slopes and light soils.

0.35m³ / hr @ 3 bar.

Approx. Diameter 6.0m

Code	Description
ITDR2	MP2000 rotator 360°
ITDR2-P1	MP2000 rotator 90 - 210°
ITDR2-P2	MP2000 rotator 210 - 270°
ITDAA	MP Acme thread adaptor
ITDAB-2	MP Acme base ½"

Sprinkler Stands

Freestanding sprinkler stand



The freestander is made of galvanised steel. 1.0m high riser with a cross base allowing the stand pipe to be used on hard surfaces.

Code	Description
ITSF-2	Freestanding 1.0m stand ½" M
ITSF-3	Freestanding 1.0m stand ¾" M

Metal sled base



Made from coated steel complete with a 30cm riser. Supplied complete with a quick coupling to connect to any Geka type fitting.

ITSST12-3 comes with a T connection.

Code	Description
ITSS12-2	Metal sled base ½" M
ITSS12-3	Metal sled base ¾" M
ITSST12-2	Metal sled base ¾" with T

Field stands



Comes with 1m galv. rod. 8mm hose - ½" M top. 12mm hose - ½" F top.

Code	Description
ITSD2	Field stand ½" M x 1m
ITSDF2	Field stand ½" F x 1m

Valves

All valves are recommended for water use only.

PVC ball valves single union



Max. Pressure: 16 bar. Max temperature: 50°C.

Code	Description
IVB020	PVC valve 20mm glue
IVB025	PVC valve 25mm glue
IVB032	PVC valve 32mm glue
IVB040	PVC valve 40mm glue
IVB050	PVC valve 50mm glue
IVB063	PVC valve 63mm glue
IVBT-2	PVC valve ½" F threaded
IVBT-3	PVC valve ¾" F threaded
IVBT-4	PVC valve 1" F threaded
IVBT-5	PVC valve 1¼" F threaded
IVBT-6	PVC valve 1½" F threaded
IVBT-7	PVC valve 2" F threaded

PVC ball valve double union



Max. Pressure: 20-63mm – 16 bar; 75-110mm – 10bar.
Max temperature: 50°C.

Code	Description
IVBD020	PVC dbl union valve 20mm glue
IVBD025	PVC dbl union valve 25mm glue
IVBD032	PVC dbl union valve 32mm glue
IVBD040	PVC dbl union valve 40mm glue
IVBD050	PVC dbl union valve 50mm glue
IVBD063	PVC dbl union valve 63mm glue
IVBD075	PVC dbl union valve 75mm glue
IVBD090	PVC dbl union valve 90mm glue
IVBD110	PVC dbl union valve 110mm glue

PVC butterfly valves



A stonger valve for use with 75mm and large pipe sizes where a ball valve ie. higher pressure ratings in mains and headers, is often inadequate. Mounting kit with flanges included.

Max. Pressure: 10 bar

Code	Description
IVA075	PVC butterfly valve kit 75mm
IVA090	PVC butterfly valve kit 90mm
IVA110	PVC butterfly valve kit 110mm

Plated brass ball lever valves



Good quality medium duty ball valves.

Max pressure: 16 bar

Code	Description
IVL-2	Brass ball valve 1/2" F
IVL-3	Brass ball valve 3/4" F
IVL-4	Brass ball valve 1" F
IVL-5	Brass ball valve 1 1/4" F
IVL-6	Brass ball valve 1 1/2" F
IVL-7	Brass ball valve 2" F
IVL-9	Brass ball valve 3" F

Plastic frost resistant valve



Will not split if frozen – ideal for standpipes and other outside applications.

Max pressure; 16 bar

Min. Temperature: 20°C

Code	Description
IVR-3	Frost resistant ball valve 3/4"
IVR-4	Frost resistant ball valve 1"

Brass gate valve



Heavy duty model. Max. Pressure: 20 bar

Code	Description
IVG-2	Brass gate valve 1/4" F
IVG-3	Brass gate valve 3/4" F
IVG-4	Brass gate valve 1" F
IVG-5	Brass gate valve 1 1/4" F
IVG-6	Brass gate valve 1 1/2" F
IVG-7	Brass gate valve 2" F
IVG-9	Brass gate valve 3" F

Brass bib tap



Has to be used with the hose tail supplied.

Max. Pressure 15 bar.

Code	Description
IVT-2	Brass bib tap 1/2"
IVT-3	Brass bib tap 3/4"
IVTE	Brass back plate elbow 3/4"

Valve Boxes



Complete with covers

Code	Description
IVX-B	Circular box 10"
IVX-C	Standard rectangular box 12"
IVX-D	Jumbo box
IVX-CE	12" box extension
IVX-DE	Jumbo box extension

Valve Boxes

Vacuum breaker valve



Large air passage, high resistance to chemicals. Smooth, reliable operation.

Max. working pressure: 10 Atm.

Max. working temperature: 80°C

Code	Description
IVY2	Vacuum breaker valve 1/2" M

Air & vacuum release valve



The features of the vacuum breaker valve and the automatic air release valve are incorporated in one single valve body.

Max. working pressure: 10 Atm

Max. working temperature: 80°C

Code	Description
IVY7	Air & vacuum release valve 2"

Automatic air release valve



For the automatic release of entrapped air pockets from pressurised systems.

Max. working pressure: plastic – 10 Atm

Max. working pressure: metal 16 Atm

Max. working temperature: 80°C

Code	Description
IVYA4	Automatic air release 1" plastic
IVYAM4	Automatic air release 1" metal

Pressure relief valves



Adjustable from 2-9 bar. Up to 1/4" – Brass.
1 1/2" – 3" – Bronze.

Code	Description
IVP-2	Pressure relief valve 1/2"
IVP-3	Pressure relief valve 3/4"
IVP-4	Pressure relief valve 1"
IVP-5	Pressure relief valve 1 1/4"
IVP-6	Pressure relief valve 1 1/2"
IVP-7	Pressure relief valve 2"
IVP-9	Pressure relief valve 3"

Non-Return Valves

PVC double union non-return valves



Code	Description
IVCI032	PVC non-return valve 32mm
IVCI040	PVC non-return valve 40mm
IVCI050	PVC non-return valve 50mm
IVCI063	PVC non-return valve 63mm
IVCI075	PVC non-return valve 75mm
IVCI090	PVC non-return valve 90mm

Brass check valves



Opening pressure 0.02bar. Max. pressure 16 bar.

Code	Description
IVC-2	Brass check valve 1/2" F
IVC-3	Brass check valve 3/4" F
IVC-4	Brass check valve 1" F
IVC-5	Brass check valve 1 1/4" F
IVC-6	Brass check valve 1 1/2" F
IVC-7	Brass check valve 2" F
IVC-9	Brass check valve 3" F

Brass foot valves

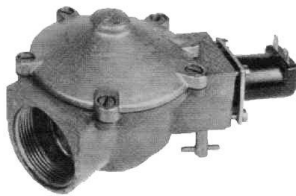


Complete with stainless steel strainer.

Code	Description
IVF-2	Brass foot valve ½" F
IVF-3	Brass foot valve ¾" F
IVF-4	Brass foot valve 1" F
IVF-5	Brass foot valve 1¼" F
IVF-6	Brass foot valve 1½" F
IVF-7	Brass foot valve 2" F
IVF-9	Brass foot valve 3" F

Solenoid Valves

Kentie brass solenoid valves



Code	Description
IWK-5A	Kentie 24 v AC 1¼" F
IWK-5D	Kentie 24 v DC 1¼" F
IWK-6A	Kentie 24 v AC 1½" F
IWK-6D	Kentie 24 v DC 1½" F

Kentie spares

A range of spares is available for both Kentie and Elmeco brass solenoid valves. Please call for details.

Code	Description
IWKD-5	Diaphragm 1¼"
IWKD-6	Diaphragm 1½"
IWKS-A	Kentie 24 v AC solenoid coil
IWKS-D	Kentie 24 v DC solenoid coil

Plastic Bermad solenoid valves



A range of 24 volt AC and DC solenoid valves which we have supplied for many years.

Normally closed design with low pressure loss. Slow opening and closing helps prevent water-hammer.

Flow control/manual shut-off and manual over-ride standard.

Minimum pressure 0.7 bar. Maximum pressure 10.0 bar.

Code	Description
IWP-4A	Solenoid valve AC 1" F
IWP-4D	Solenoid valve DC 1" F
IWP-6A	Solenoid valve AC 1½" F
IWP-6D	Solenoid valve DC 1½" F
IWP-7A	Solenoid valve AC 2" F
IWP-7D	Solenoid valve DC 2" F
IWPN-6A	Solenoid valve AC 1½" 90°
IWPD-4	Diaphragm for Bermad 1"
IWPD-6	Diaphragm for Bermad 1"
IWPS-A	Solenoid coil AC complete
IWPS-D	Solenoid coil DC complete

Cable Ties

Please ask for availability of other sizes.

Code	Description
ICS100-2.5	Cable tie 100 x 2.5mm black
ICS150-3.6	Cable tie 150 x 3.6mm black
ICS200-4.6	Cable tie 200 x 4.6mm black
ICS300-4.6	Cable tie 300 x 4.6mm black
ICS380-4.6	Cable tie 380 x 4.6mm black
ICS380-7.6	Cable tie 380 x 7.6mm black
ICS540-8.0	Cable tie 540 x 8.0mm black

Low voltage cable



Minimum order 100m. Size 0.8mm.

Code	Description
IC04-1	Cable 4 core x 100m
IC04-2	Cable 4 core x 250m
IC04-5	Cable 4 core x 500m
IC04-10	Cable 4 core x 1000m
IC06-1	Cable 6 core x 100m
IC06-2	Cable 6 core x 250m
IC06-5	Cable 6 core x 500m
IC06-10	Cable 6 core x 1000m
IC08-1	Cable 8 core x 100m
IC08-2	Cable 8 core x 250m
IC08-5	Cable 8 core x 500m
IC08-10	Cable 8 core x 1000m
IC10-1	Cable 10 core x 100m
IC10-2	Cable 10 core x 250m
IC10-5	Cable 10 core x 500m
IC10-10	Cable 10 core x 1000m
IC12-1	Cable 12 core x 100m
IC12-2	Cable 12 core x 250m
IC12-5	Cable 12 core x 500m
IC12-10	Cable 12 core x 1000m
IC14-1	Cable 14 core x 100m
IC14-2	Cable 14 core x 250m
IC14-5	Cable 14 core x 500m
IC14-10	Cable 14 core x 1000m
IC16-1	Cable 16 core x 100m
IC16-2	Cable 16 core x 250m
IC16-5	Cable 16 core x 500m
IC20-1	Cable 20 core x 100m
IC20-2	Cable 20 core x 250m
IC20-5	Cable 20 core x 500m
IC24-1	Cable 24 core x 100m
IC24-2	Cable 24 core x 250m
IC24-5	Cable 24 core x 500m

Irrigation Control

Heron valve controllers



MCI-96 models are upgradable to a maximum of 96. 24 volt valves. A comprehensive range of features to give complete control of your irrigation. AC output standard. Please ask for further details.

*made to order

Code	Description
IXM-08A	MCI-8 AC 8 valves
IXM-08D	MCI-8 DC 8 valves
IXM-16	MCI-96 AC 16 valves
IXM-16D	MCI-96 DC 16 valves
IXM-24	MCI-96 AC 24 valves
IXM-32	MCI-96 AC 32 valves
IXM-40	MCI-96 AC 40 valves
IXM-48	MCI-96 AC 48 valves
IXM-64	MCI-96 AC 64 valves

Heron accessories

Interface box may be required – PLEASE CALL

Code	Description
IXMP-8	Expansion card MCI-96 AC 8
IXMP-16	Expansion card AC 16
IXMSG	Rain gauge
IXMSL	Light sensor

Galcon AC 24 controller

Features: 8,12,16,20 and 24 stations. Single housing. Modular expansion.

Weekly program. 4 start times per daily program.

Cyclic program – 1 to 30 days.

Programmable “rain off”. Master valve/pump start.

Programmable fertiliser valve.

Programmable lighting control. Built in transformer.

Code	Description
IXA24-8	Controller AC 24 – 8 station
IXA24-12	Controller AC 24 – 12 station
IXA24-16	Controller AC 24 – 16 station
IXA24-20	Controller AC 24 – 20 station
IXA24-24	Controller AC 24 – 24 station
IXAM24	4 station module – AC 24

PLEASE CALL FOR FURTHER INFORMATION

Galcon AC6 & AC6S controllers



An ideal watering computer for up to 6 valves, allowing the individual programming of each valve up to 4 start times per day on a weekly or cyclic programme.

Run times from 1 min to 12 hours.

Watering schedule 7 day calendar or interval of 1 to 30 days.

Code	Description
IXA6	Galcon AC-6 controller
IXA6S	Galcon AC-6S controller
IXAT	Galcon 240-24v transformer

Galconette Jewel controller



Features:

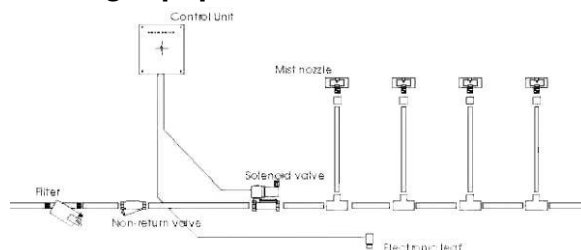
- easy to install and simple to use
- works with one 9v battery
- watering time: from one minute to 12 hours
- up to four start times per day
- working pressure from 1 to 10 bar
- 1" BSP connections
- Flow rate up to 9m³/hr
- Completely waterproof

Code	Description
IXGJ	Galconette Jewel

PLEASE CALL FOR FURTHER INFORMATION

Misting Equipment

Misting equipment



Code	Description
IMCL	Electronic leaf 2.5m lead
IMCU	Electronic control unit
IMCVB-2	24 v AC valve brass 1/2"
IMCW	Weaner & crossover unit

Fertigation

Heron pH / EC dosing units



In-line and mix tank systems. Acid or fertiliser only or acid and fertiliser combined. Low or high flow rates supported. Accurate control of pH down to pH 5.5. Single or multiple stock tanks. Multiple automatic alarm conditions.

Can be operated as stand alone systems or connected to an irrigation controller, which can then give up to 16 different fertiliser recipes assigned to different irrigation programmes. Please call for information and prices.

Aqua-Hort

- Kills Pythium and Phytophthora
- Prevents Phytophthora ramorum – 'sudden oak death'
- Increases calcium intake
- Means whiter and stronger roots

Aqua-Hort is a unit for applying copper nutrition by means of electrolysis. Free copper ions are released in the water, which is not possible by adding normal copper chemicals. Aqua-Hort is installed in more than 200 nurseries worldwide. They all report better plant roots as a result.

Description

Aqua-Hort Mini 5m³/h
Aqua-Hort 75 10m³/h
Aqua-Hort 90 30m³/h

Dosatron fee units



Non-electric proportional fertiliser dispenser. The dose of fertiliser injected remains constant as long as flow and pressure remain within the specified limits. A range of accessories is available including pressure regulator, in-line filters, trolley and 25 litre barrel. Please call for technical information.

	Inlet	Outlet	Flow rate m ³ / hr	Dosage in %
DI-16	3/4" M	3/4" M	0.01-2.5	0.2-1.6
DSA45, 1-5	1 1/4" M	1 1/4" M	0.1 – 4.5	0.2-1.5
D8R	50mm PE		0.5-8.0	0.2-2.0
D20S	63mm PE		1.0-20.0	0.2-2.0
D30S	2" M	2" F	10.0-30.0	0.25-1.25

Code	Description
IXD6	Dosatron DSA45, 1.5
IXD3	Dosatron D8R
IXD4	Dosatron D20S
IXD5	Dosatron D30S

Arad water meters



Meters to measure your water usage. Also available with electrical output. Max temp. 50°C. Max pressure 16 bar.

Code	Description
IXW-3	3/4" M meter 2.5 – 5 cu m/h
IXW-4	1" M meter 5-10 cu m/h
IXW-5	1 1/4" M meter 6-12 cu m/h
IXW-6	1 1/2" M meter 10-20 cu m/h
IXW-7	2" M meter 15-30 cu m/h

Pumps

A wide range of pumps are required in the irrigation of plants on nurseries. These vary from larger dedicated multistage pumps to pressurised sets for smaller systems. Specialist items such as dirty water pumps are also available. Please call for technical information or to discuss your requirements.

We can also supply the Grundfos CR range of multistage pumps.

Espa Pumps

Small selection of range. Call for further information and prices.

Pressure set



Complete with 24 litre pressure vessel, pressure switch, auto/start, pressure gauge. Max. Pressure 5 bar. Also available with the Tecno pump range.

Description	Single Phase			
	m ³ @ 3 bar	inlet/ outlet BSPF	kW	amps
Delta 505 M	0.5	1"	0.37	2.8
Delta 755 M	1.0	1"	0.50	3.4
Delta 1005 M	2.0	1"	0.75	4.8
Delta 1755 M	3.7	1"	0.75	5.5

Code	Description
IGEDP505-24-1	Delta 505 1 phase p.set
IGEDP755-24-1	Delta 755 1 phase p.set
IGEDP1005-24-1	Delta 1005 1 phase p.set
IGEDP1755-24-1	Delta 1755 1 phase p.set

Submersible stainless steel pumps



Single phase motor with built in thermal protection. Complete with 15cm of power cable and level switch.

Description	Single Phase			
	m ³ @ 3 bar	inlet/ outlet BSPF	kW	amps
Acuaria 7.4MA	2.0	1"	0.5	3.6
Acuaria 7.6MA	2.7	1"	0.9	5.0
Acuaria 17.5MA	4.2	1"	0.9	7.4

Code	Description
IGEA07.4-1	Acuaria 7.4MA 1 phase
IGEA07.6-1	Acuaria 7.6MA 1 phase
IGEA17.5-1	Acuaria 17.5MA 1 phase

Vertical pumps – Press-Line VE



Multistage pumps with stainless steel impellers

Description	Single Phase		
	m³ @ 3 bar	kW	amps
VE94 / 4M	7.5	1.1	5.0
VE94 / 5M	10.0	1.5	6.0
VE94 / 6M	11.5	1.5	6.7
Three Phase			
VE94 / 4T	7.5	1.1	2.8
VE94 / 5T	10.0	1.5	3.5
VE94 / 6T	11.5	1.5	3.9

Code	Description
IGEV94-4-1	VE94 / 4M 1 phase
IGEV94-5-1	VE94 / 5M 1 phase
IGEV94-6-1	VE94 / 6M 1 phase
IGEV94-4-3	VE94 / 4T 3 phase
IGEV94-5-3	VE94 / 5T 3 phase
IGEV94-6-3	VE94 / 6T 3 phase

Description	Three Phase		
	m³ @ 3 bar	kW	amps
VE121 / 2T	16.0	3.0	6.0
VE121 / 3T	24.0	4.0	8.3
VE121 / 4T	28.0	5.5	1.1

Code	Description
IGEV121-2-3	VE121 / 2T 3 phase
IGEV121-3-3	VE121 / 3T 3 phase
IGEV121-4-3	VE121 / 4T 3 phase

Horizontal pumps



Delta self priming pump with glass reinforced plastic impellers for smaller applications. Up to 2m³/ hr.
Tecnoself multistage horizontal pump with stainless steel impellers – ideal for smaller nurseries. Also available with self priming device.

Inlet / outlet BSPF: 1"

Description	Single Phase		
	m³ @ 3 bar	kW	amps
Delta 505M	0.5	0.37	2.8
Delta 755M	1.0	0.50	3.4
Delta 1005M	2.0	0.75	4.8
Delta 1755M	3.7	0.75	5.5
Tecnoself 25/4M	5.0	0.92	4.3
Tecnoself 25/5M	6.0	1.10	5.2
Three Phase			
Tecnoself 25/4T	5.0	0.92	2.5
Tecnoself 25/5T	6.0	1.1	3.0

Code	Description
IGED505-1	Delta 500M 1 phase
IGED755-1	Delta 755M 1 phase
IGED1005-1	Delta 1005M 1 phase
IGED1755-1	Delta 1755M 1 phase
IGET25-4-1	Tecnoself 25/4M 1 phase
IGET25-5-1	Tecnoself 25/5M 1 phase
IGET25-4-3	Tecnoself 25/4T 3 phase
IGET25-5-3	Tecnoself 25/5T 3 phase

Dirty water pumps – submersible



Espa Drainex submersible pumps for dirty water and reservoirs. Complete with float switch.

Up to 25m³/hr	Single Phase		
Description	Outlet BSPF	kW	amps
Drainex 200 MA	2"	1.1	5.2
Drainex 201 MA	2"	1.1	6.2

Code	Description
IGER200-1	Drainex 200 MA
IGER201-1	Drainex 201 MA

Lowara Pumps

Submersible stainless steel pumps



Ideal for clean water applications where the pump can sit in the water source and be connected directly into the irrigation system.

Single phase pumps complete with floatswitch.

Description	m ³ /hr @ 3 bar	Single Phase		
		Outlet BSPF	kW	amps
2SC5	3.0	1 1/4"	0.93	4.37
2SC7	4.3	1 1/4"	1.15	5.19

Code	Description
IGLS205F	Lowara 2SC5 1ph
IGLS207F	Lowara 2SC7 1ph

Vertical pumps



Reliable multistage pumps with stainless steel impellers and diffusers. Available with several part configuration to enable direct replacement of existing Grundfos and other types.

Description	m ³ @ 4 bar	Three Phase		
		Inlet/outlet BSPF	kW	amps
SV804F22T	10.0	1 1/2"	2.2	8.71
SV805F22T	12.0	1 1/2"	2.2	8.71
SV1604F40T	21.0	2"	4	8.14

Code	Description
IGLV804F-3	Lowara SV804F22T 3ph
IGLV805F-3	Lowara SV805F22T 3ph
IGLV1604F-3	Lowara SV1604F40T 3ph

Horizontal self-priming pumps



Lowara BG series of self-priming pumps with stainless steel housing and impeller for water transfer duties such as reservoir to holding tank.

Description	m ³ @ 3 bar	Three Phase		
		Inlet/outlet BSPF	kW	amps
BGM5	1.5	1 1/4" / 1"	0.91	4.33
BGM7	2.5	1 1/4" / 1"	1.11	5.00

Code	Description
IGLB5	Lowara BGM 5/A 1ph
IGLB7	Lowara BGM 7/A 1ph

Pump float switches and starters

Automatic pump starters available on request. Please specify overload size when ordering.

Code	Description
IGF10	Sealed switch with 10m cable
ERS20	On/Off isolator, IP65 20 amp
ERS35	On/Off isolator, IP65 35 amp
ERS63	On/Off isolator, IP65 63 amp
ECPS25-1	Pump starter, IP65 1 ph 25 amp
ECPS25-3	Pump starter, IP65 3 ph 25 amp
ECPS35-1	Pump starter, IP65 1 ph 35 amp
ECPS35-3	Pump starter, IP65 3 ph 35 amp

Pump speed control - Hydrovar

A more sophisticated method of balancing pump output to demand. The systems use a frequency inverter to adjust the pump speed and therefore the output. Call for details. Normally set to maintain the pressure whatever the output volume.

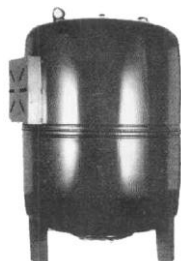
A very efficient method of pump control. Particularly suited to situations where there are differing demands on the system.

**OTHER PUMPS AND ACCESSORIES ARE
AVAILABLE ON REQUEST**

Pressure Vessels

Pressure vessels in tandem with pressure stats can be fitted to the discharge side of the pump in order to permanently pressurise the irrigation system. This gives automatic pump starting when a valve opens. The pressure drops, the stat senses the drop and initiates the pump. Ideal for hand watering systems.

Replaceable membranes. Maximum pressure 10 bar.



Code	Description
IRVH24	Horiz. Pressure vessel 24ltr
IRS	Danfoss pressure switch RT116
IRV100	Vertical pressure vessel 100ltr
IRV200	Vertical pressure vessel 200ltr
IRV300	Vertical pressure vessel 300ltr
IRV500	Vertical pressure vessel 500ltr

Water Storage



Water tank kits – Greenseal liner EPDM0.75m

Galvanised water tanks, supplied with all necessary bolts, fixings and Greenseal liner required to complete. All you need is a suitable concrete slab to stand it on and to select the take-off unit you need. Tank volumes are approximate. Tank covers and connections extra.

Code	Description
IZGG09-2	9' x 5' – 1,990 gallons
IZGG09-3	9' x 7'6 – 2,980 gallons
IZGG12-2	12' x 5' – 3,530 gallons
IZGG12-3	12' x 7'6 – 5,300 gallons
IZGG15-2	15' x 5' – 5,520 gallons
IZGG15-3	15' x 7'6 – 8,280 gallons
IZGG18-2	18' x 5' – 7,950 gallons
IZGG18-3	18' x 7'6 – 11,930 gallons
IZGG21-2	21'5 x 5' – 10,700 gallons
IZGG21-3	21' x 7'6 – 16,050 gallons
IZGG24-2	24' x 5' – 14,000 gallons
IZGG24-3	24' x 7'6 – 21,000 gallons
IZGG30-2	30' x 5' – 23,000 gallons
IZGG30-3	30' x 7'6 – 30,788 gallons
IZGG36-2	36' x 5' – 30,500 gallons
IZGG36-3	36' x 7'6 – 45,750 gallons

Water tank kits – PVC liner

Galvanised water tanks, supplied with all necessary bolts, fixings and PVC liner required to complete. All you need is a suitable concrete slab to stand it on and to select the take-off unit you need. Tank volumes are approximate.

Code	Description
IZGP09-2	9' x 5' – 1,990 gallons
IZGP09-3	9' x 7'6 – 2,980 gallons
IZGP12-2	12' x 5' – 3,530 gallons
IZGP12-3	12' x 7'6 – 5,300 gallons
IZGP15-2	15' x 5' – 5,520 gallons
IZGP15-3	15' x 7'6 – 8,280 gallons
IZGP18-2	18' x 5' – 7,950 gallons
IZGP18-3	18' x 7'6 – 11,930 gallons
IZGP21-2	21' x 5' – 10,700 gallons
IZGP21-3	21' x 7'6 – 16,050 gallons
IZGP24-2	24' x 5' – 14,000 gallons
IZGP24-3	24' x 7'6 – 21,000 gallons
IZGP30-3	30' x 7'6 – 33,000 gallons
IZGP30-4	30' x 10' – 44,000 gallons
IZGP36-2	36' x 5' – 30,500 gallons
IZGP36-3	36' x 7'6 – 45,750 gallons

**CALL TODAY FOR OTHER SIZES AND THE
BEST PRICE**

Greenseal tank liners only EPDM 0.75mm

Code	Description
IZLG09-02	Greenseal liner 9' x 6'
IZLG09-03	Greenseal liner 9' x 8.5'
IZLG12-02	Greenseal liner 12' x 6'
IZLG12-03	Greenseal liner 12' x 8.5'
IZLG15-02	Greenseal liner 15' x 6'
IZLG15-03	Greenseal liner 15' x 8.5'
IZLG18-02	Greenseal liner 18' x 6'
IZLG18-03	Greenseal liner 18' x 8.5'
IZLG21-02	Greenseal liner 21' x 6'
IZLG21-03	Greenseal liner 21' x 8.5'
IZLG24-02	Greenseal liner 24' x 6'
IZLG24-03	Greenseal liner 24' x 8.5'
IZLG30-02	Greenseal liner 30' x 6'
IZLG30-03	Greenseal liner 30' x 8.5'
IZLG36-02	Greenseal liner 36' x 6'
IZLG36-03	Greenseal liner 36' x 8.5'

BUTYL AND PVC LINERS ALSO AVAILABLE

Repair kits

Code	Description
IZLRP	PVC liner repair kit
IZLRT	Butyl liner cold repair kit

Steel tank take-off units

Code	Description
IZT-7	Water tank take off unit 2"

Brass gate valves



Heavy duty model. Max. Pressure: 20 bar.

Code	Description
IVG-2	Brass gate valve 1/2" F
IVG-3	Brass gate valve 3/4" F

Permeable water tank covers

Flat dense woven poly. cover. Requires support across tank to prop the centre of the cover.

Code	Description
IZC09	Cover black 2.73m (9")
IZC12	Cover black 3.64m (12")
IZC15	Cover black 4.55m (15")
IZC18	Cover black 5.46m (18")
IZC21	Cover black 6.37m (21")

**FLOATING COVERS ARE AVAILABLE
ON REQUEST**

Steel tank covers



Code	Description
IZCS09	Steel cover (9")
IZCS12	Steel cover (12")
IZCS15	Steel cover (15")
IZCS18	Steel cover (18")
IZCS21	Steel cover (21")
IZCS24	Steel cover (24")
IZCS36	Steel cover (36")

PVC threaded tank connectors



Ideal for rigid plastic tanks.

Code	Description
IZTP-3	Threaded tank connector 3/4"
IZTP-4	Threaded tank connector 1"
IZTP-6	Threaded tank connector 1 1/2"
IZTP-7	Threaded tank connector 2"
IZTP20	Tank connector 20/25mm
IZTP25	Tank connector 25/32mm
IZTP32	Tank connector 32/40mm
IZTP40	Tank connector 40/50mm
IZTP50	Tank connector 50/63mm

Ball float valves



	Description
IZB-2	Float valve complete 1/2"M
IZB-3	Float valve complete 3/4"M
IZB-4	Float valve complete 1"M
IZB-6	Float valve complete 1 1/2"M
IZB-7	Float valve complete 2"M
IZBB-2	Float valve bracket 1/2"
IZBB-3	Float valve bracket 3/4"
IZBB-4	Float valve bracket 1"
IZBB-6	Float valve bracket 1 1/2"

Mixing tanks

Ideal as stock solution tanks and mixing tanks. Lids are also available. Please call for other sizes and further details.

Also available as round tanks and lids.

Code	Description
IZF0350	Glass fibre 350 ltr square
IZF10350	Glass fibre 350 ltr lid square
IZF0600	Glass fibre 600 ltr square
IZFI0600	Glass fibre 1000 ltr square
IZF1000	Glass fibre 1000 ltr lid square
IZFI1000	Glass fibre 2200 ltr square
IZF2200	Glass fibre 2200 ltr square
IZFI2200	Glass fibre 2200 ltr lid square

Filters

Plastic in-line filters

The choice of element should be determined by the primary source of containment. Disc filters should be used with algae as the length of time between cleaning is increased by almost 3 to 1 over screens. Likewise screens are much more efficient than discs when filtering sand by the same ratio.

Colour	Mesh	mm	Element Type	Use with
green	30	0.50	moulded	Sprinklers
blue	50	0.30	moulded	Mini sprinklers Mist propagation spray nozzles
brown	60	0.25	disc	
white	75	0.20	moulded	drip systems trickle irrigation
yellow	155	0.10	moulded or disc	

Plastic filter ¾"



Available with moulded element only.
For flow rates up to 3m³/hr.
Recommended maximum working pressure 8 bar.
Inlet/outlet ¾" BSP male.

Code	Description
IFI-3-G	¾" M plastic filter Y+ 30 mesh
IFI-3-W	¾" M plastic filter Y+ 75 mesh
IFI-3-Y	¾" M plastic filter Y+ 155 mesh

Plastic filter 1"



Filters are available with moulded and disc elements.
For flow rates up to 7m³/hr.
Recommended maximum working pressure 8 bar.
Inlet outlet 1" BSP male.

Code	Description
IFI-4-G	1" M plastic Y filter +30 mesh
IFI-4-W	1" M plastic Y filter +75 mesh
IFI-4-Y	1" M plastic Y filter +155 mesh
IFI-4D-N	1" M plastic Y filter +60 disc
IFI-4D-Y	1" M plastic Y filter +155 disc

Plastic filter 1"



Filters are available with moulded or disc elements.
For flow rates up to 15m³.
Recommended maximum working pressure 8 bar.
Inlet outlet 1½" BSP male. Comes complete with two 1½" sockets.

Code	Description
IFI-6-G	1½" M plastic Y filter + 30 mesh
IFI-6-W	1½" M plastic Y filter + 75 mesh
IFI-6-Y	1½" M plastic Y filter + 155 mesh
IFI-6D-N	1½" M plastic Y filter + 60 disc
IFI-6D-Y	1½" M plastic Y filter + 155 disc

Plastic filters 2"



Filters are available with moulded stainless steel or disc elements.
For flow rates up to 25m³ / hr.
Recommended maximum working pressure 8 bar.
Inlet/outlet 2" BSP male.

Code	Description
IFI-7-B	2" M plastic filter + 50 mesh
IFI-7-Y	2" M plastic filter + 155 mesh
IFI-7D-Y	2" M plastic filter + 155 disc

**REPLACEMENT ELEMENTS AVAILABLE
ON REQUEST**

Plastic filters 3"



Filters are available with moulded stainless steel or disc elements.

For flow rates up to 50m³/hr.

Recommended maximum working pressure at 8 bar.

Inlet/outlet 3" BSP female.

Code	Description
IFI-9-B	3" M plastic filter + 50 mesh
IFI-9-Y	3" M plastic filter + 155 mesh
IFI-9D-Y	3" M plastic filter + 155 disc

Metal in-line filters



Filters are available with moulded stainless steel or disc elements.

2" for flow rates up to 30m³/hr.

Recommended maximum working pressure 8 bar.

Inlet/outlet 2" BSP female.

3" flow rates for up to 40m³/hr.

Recommended maximum working pressure 8 bar.

Inlet/outlet 3" BSP female.

Code	Description
IFIM-7G	2" metal filter + 60 mesh
IFIM-7-W	2" metal filter + 155 mesh
IFIM-7D-W	2" metal filter + 155 disc
IFIM-9-G	3" metal filter + 60 mesh
IFIM-9-W	3" metal filter + 155 mesh
IFIM-9D-W	3" metal filter + 155 disc

Automatic self cleaning filters



A fully automatic filter which senses when the filter needs cleaning on pressure differential or time and then uses a hydraulically driven cleaner to remove dirt from the inside of the filter element.

Contact us for latest prices/more details.

Size	Flow rate (recommended)
2" female	7-25m ³ per hour
3" flanged	14-40m ³ per hour

**LARGER AUTOMATIC FILTERS AVAILABLE
ON REQUEST**

Sand filters



Provides the finest filtration to remove silt and algae. Maximum flow rates are shown but generally the larger the better for effective filtration. Can easily be fitted with manual backwash system for cleaning the filter bed.

Extra PVC pipe fittings and valves required.

Code	Description
IFS06	6m ³ /hr sand filter
IFS09	9m ³ /hr sand filter
IFS15	15m ³ /hr sand filter
IFS20	20m ³ /hr sand filter
IFS28	28m ³ /hr sand filter
IFS30	30m ³ /hr sand filter
IFS60	60m ³ /hr sand filter
IFSS	Filter sand 25kg

Filter sand subject to additional delivery charge.

Sand filter arrays



An array is a complete filtering system.

It is recommended to put a standard array on a concrete base. All the arrays come with a controller for automatic back flushing which includes a differential pressure switch with a timed back up.

Description – <i>please call for price</i>
10m ³ /hr 18" single
15m ³ /hr 20" single
20m ³ /hr 24" single
40m ³ /hr 24" double
60m ³ /hr 24" triple

Slow sand filters



Biological slow sand filters are highly efficient filters in which the sand combines to give a very effective mechanical filtration and to provide a substrata for a biological culture as the water percolates slowly through the sand bed. Certain plant pathogens, especially certain fungi are destroyed.

Please call for further information.

Pressure Regulation

Adjustable 3/4" pressure regulators



Uses for example, on drip systems to maintain constant pressure in the system.

Flow rates 0.2 – 0.5m³ per hour.

3/4" female x 3/4" male.

Recommended pressure range 0.7-9 atm.

Code	Description
IR-3Y	0.5-1.2 atm regulator 3/4 yellow
IR-3W	0.8-2.5 atm regulator 3/4 white
IR-3R	2.0-4.0 atm regulator 3/4 red
IR-3B	3.5-6.0 atm regulator 3/4 black

Adjustable 1" pressure regulators



Plastic regulator with 1" female connections for 0.4 – 0.8m³ per hour flow rates. Recommended pressure range 0.7 – 0.9 atm.

Code	Description
IR-4W	0.5-1.2 atm regulator 1" white
IR-4R	1.0-2.0 atm regulator 1" red
IR-4B	1.5-3.5 atm regulator 1" black
IR-4N	3.0-5.5 atm regulator 1" natural

1 1/2" pressure regulators



A larger brass bodied adjustable pressure regulator for 0.5 – 18m³ per hour flow rates. Connections 1 1/2" female.

Code	Description
IR-6W	0.5-1.2 atm regulator 1 1/2" white
IR-6R	1.0-2.0 atm regulator 1 1/2" red
IR-6B	1.5-3.5 atm regulator 1 1/2" black
IR-6N	3.0-5.5 atm regulator 1 1/2" natural

Pressure gauges



Glycerine filled gauges with a 63mm dial. Connection 1/4" male. Mini ball valve can be used to isolate the gauge when not in use. Bush allows connection to PVC pipework.

Code	Description
IRG-1	Pressure gauge 0-7 bar
IRG-2	Pressure gauge 0-11 bar
IRGV-1	Pressure gauge valve 1/4" MF
IPRB20-1	20mm x 1/4" F bush

Hose and Accessories

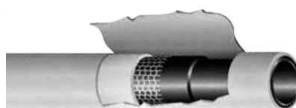
Suction hose



For use where a flexible pipe is needed between the reservoir and the suction side of the pump.

Code	Description
IHS-5	Suction hose 1 1/4"
IHS-6	Suction hose 1 1/2"
IHS-7	Suction hose 2"
IHS-9	Suction hose 3"

Tricoflex hose



Standard yellow nursery watering hose. Excellent kink and handling characteristics. Working pressure 10bar 1/2", 3/4", and 8 bar 1" and 1 1/4".

Code	Description
IHT2-A	Tricoflex hose 1/2" 25m
IHT2-B	Tricoflex hose 1/2" 50m
IHT2-1	Tricoflex hose 1/2" 100m
IHT3-A	Tricoflex hose 3/4" 25m
IHT3-B	Tricoflex hose 3/4" 50m
IHT3-1	Tricoflex hose 3/4" 100m
IHT4-A	Tricoflex hose 1" 25m
IHT4-B	Tricoflex hose 1" 50m
IHT4-1	Tricoflex hose 1" 100m
IHT5-A	Tricoflex hose 1 1/4" 25m
IHT5-B	Tricoflex hose 1 1/4" 50m

Jubilee clips



Code	Description
IHJ000	Jubilee clip 9.5-2mm
IHJ00	Jubilee clip 13-20mm
IHJ0X	Jubilee clip 17-25mm
IHJ1A	Jubilee clip 22-30mm
IHJ1	Jubilee clip 25-35mm
IHJ1X	Jubilee clip 30-40mm
IHJ2A	Jubilee clip 35-50mm
IHJ3	Jubilee clip 50-70mm
IHJ4	Jubilee clip 70-90mm

Brass quick couplings – hose



Code	Description
IHQH-2	Hose tail 1/2"
IHQH-3	Hose tail 3/4"
IHQH-4	Hose tail 1"
IHQH-5	Hose tail 1 1/4"
IHQH-6	Hose tail 1 1/2"

Brass quick couplings - female



Code	Description
IHQF-2	Hose coupling F 1/2"
IHQF-3	Hose coupling F 3/4"
IHQF-4	Hose coupling F 1"
IHQF-5	Hose coupling F 1 1/4"
IHQF-6	Hose coupling F 1 1/2"

Brass quick couplings - male



Code	Description
IHQM-2	Hose coupling M 1/2"
IHQM-3	Hose coupling M 3/4"
IHQM-4	Hose coupling M 1"
IHQM-5	Hose coupling M 1 1/4"
IHQM-6	Hose coupling M 1 1/2"

Brass quick couplings - Y



Code	Description
IHQY	Hose coupling Y piece

Brass quick couplings – end cap



Code	Description
IHQE	Hose coupling end cap

Brass quick coupling washers



Code	Description
IHQW	Hose coupling washers

Hose connectors - brass



Brass hosetail connection to male threaded BSP.

Code	Description
IHCB-2	Hose connector brass 1/2"
IHCB-3	Hose connector brass 3/4"
IHCB-4	Hose connector brass 1"
IHCB-5	Hose connector brass 1 1/4"
IHCB-6	Hose connector brass 1 1/2"
IHCB-7	Hose connector brass 2"

Hose connections - PVC



PVC hosetail connection to male threaded BSP.

Code	Description
IHCP-2	Hose connector 1/2" PVC
IHCP-3	Hose connector 3/4" PVC
IHCP-4	Hose connector 1" PVC
IHCP-5	Hose connector 1 1/4" PVC
IHCP-6	Hose connector 1 1/2" PVC
IHCP-7	Hose connector 2" PVC

Watering lances

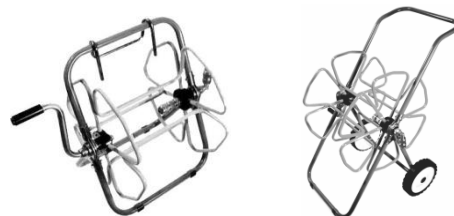


Code	Description
IHYL-1	Aluminium lance 60cm
IHYL-2	Aluminium lance 90cm
IHYL-3	Aluminium lance 120cm
IHYLR-1	Aluminium rose – large
IHYLR-2	Triple jet nozzle
IHYLP	Spray pistol 67 l/min at 6 bar

Aluminium lances come complete with a metal valve and rose, giving an output of 5 litres/min at 6 bar.

OTHER LANCES AND ROSES AVAILABLE ON REQUEST

Hose reels



Code	Description
IHR-2	Reel for 50m 1/2" hose
IHRT-2	Trolley for 100m 1/2" hose
IHRT-3	Trolley for 100m 3/4" hose
IHRT-4	Trolley for 80m 1" hose HD

Ebb Flood

Ebb flood tray



Grey UV stabilised plastic ebb flood tray inserts. Standard widths of 1.0m, 1.2m, 1.45m, 1.5m, 1.6m, 1.8m, 1.9m, 2.0m and 2.2m to any length of bench.

Comes with built in sump and filter for inlet/outlet.

These trays are suitable for both new benching and converting existing benches to a modern ebb-flood system.

Ebb-flood valves

Quick valve



The quick valve utilises a separate inlet and outlet connection and has an integral strainer. The filling speed can be altered during installation to give between about 11 and 32 l/m at 1 bar. The drainage operates at about 28 l/m while siphoning at 1 bar. The drainage operates at about 28 l/m while siphoning. Quick valves are available with either a PE tube connection for 8mm or 10.5/12.5mm tube, a 1/2" hose connection or a 3/4" hose connection.

HS valve



The HS valve uses the same pipe for both inlet and outlet so that just one pipe has to be run from the holding tank to the benches, a check valve sealing the drain while the pump is running. As with the Quick Valve there are alternative connections for PE tube or hoses. It also is available with different sized drillings to provide different inlet rates.

Siphon valve



This is an outlet valve only and designed mainly for container bench systems where the bench tops travel and therefore cannot be connected to a hose. In such systems the water supply is via a fixed pipe, usually arranged over the end of the bench. The outlet is via the siphon valve into a gutter under the bench and then back to the holding tank.

The siphon valve can be adjusted to drain at one of three different levels or to be sealed to retain the water.

Capillary Matting

Aquamat capillary matting

Sold in 50m rolls. Please call for details.

Code	Description
IYCA30	Aquamat capillary mat 30cm
IYCA40	Aquamat capillary mat 40cm
IYCA50	Aquamat capillary mat 50cm
IYCA60	Aquamat capillary mat 60cm
IYCA70	Aquamat capillary mat 70cm
IYCA100	Aquamat capillary mat 100cm
IYCA120	Aquamat capillary mat 120cm
IYCA140	Aquamat capillary mat 140cm

Klavermat capillary matting

Sold in various widths and lengths. Please call for details and prices.

type	approx. water capacity
Klavermat HC 80g/m ²	0.8 litres/m ²
Klavermat HC 125g/m ²	1.3 litres/m ²
Klavermat HC 200g/m ²	2.0 litres/m ²
Klavermat HC 300g/m ²	3.0 litres/m ²

SIZES, ABBREVIATIONS AND MEASUREMENTS

PVC pipes and fittings are in metric sizes. A 32mm pipe is 32mm external diameter.

A 32mm socket is 32mm internal diameter, ie. it fits the 32mm pipe. Some fittings can be used either internally or externally and this would be shown as, for example, 25/32mm, being 25mm internal – to go over 25mm pipe, or 32mm external – to go inside a 32mm fitting.

Screw fittings generally use BSP (British Standard Pipe) threads. These are given as a measurement in inches which relates to a standard imperial pipe size. This can make them difficult to measure so if you are not sure, compare with a spare fitting of known size.

BSP threads are shown in inches. In this catalogue, fittings are male (external) thread unless they are marked F for female (internal) thread or unless it is otherwise obvious. Thus a 32" x 1" connector is 32mm internal diameter one end and 1" BSP male the other.

Hose sizes are also given in inches. This is the measurement of the internal bore of the hose. Take care not to confuse with BSP fittings.

Some types of nozzles use a Whitworth (WW) thread given in inches. This is a coarse tapered thread, and is always clearly marked, for example, 3/8" WW.

The common alternative thread for nozzles is metric. The measurement is millimetres to the outside of the threads and is shown as, for example M11.

PE (polyethylene) pipe is identified by its external diameter in the same way as PVC pipe. Fittings are sizes accordingly to the PE pipe they fit. So a 20mm barbed fitting will fit 20mm PE pipe.

Volumes are shown in litres (l), cubic metres (cu m) or gallons.

1 cu m = 1000 l = 220 gallons

1 gallon = 4.55 l

Rates of flow are given in cubic metres/hour (cu m/h), litres/hour (l/h) or litres/minute (l/m).

Pressures are shown in bar

1 bar = 14.5psi = 0.99 atmospheres.

Generally metric measurements are used in specifications and quotations.

1 metre = 3.22808 feet 1 foot = 0.3048m

1 cm = 0.3937 inches 1 inch = 2.54cm

PVC Pipe

PVC pipe



Pressure rating	16-40mm	10 bar
	50-110mm	7.5 bar

Higher pressure ratings are available on request. 36mm sleeving is designed to fit over the outside of 32mm pipe and provides an economical alternative to PVC sockets for this size. Sleeving is not socketed either end. Plain pipe has a socket at one end. See also: spraylines.

Sizes are external diameter x length.

Code	Description
IPP016	16mm x 5.04m pipe
IPP020	20mm x 5.04m pipe
IPP025	25mm x 5.04m pipe
IPP032-5	32mm x 5.04m pipe
IPP036	36mm x 5.00m sleeving
IPP040	40mm x 5.00m pipe
IPP050	50mm x 5.00m pipe
IPP063	63mm x 5.00m pipe
IPP075	75mm x 5.00m pipe
IPP090	90mm x 5.00m pipe
IPP110	110mm x 5.00m pipe

125mm and 160mm pipe and fitting available on request.

PVC pipe clamps



Heavy duty black PE body with PVC pipe retaining clip on larger sizes. Central countersunk screw hole.

Code	Description
IPPC016	PVC clamp 16mm
IPPC020	PVC clamp 20mm
IPPC025	PVC clamp 25mm
IPPC032	PVC clamp 32mm
IPPC040	PVC clamp 40mm with clip
IPPC050	PVC clamp 50mm with clip
IPPC063	PVC clamp 63mm with clip
IPPC075	PVC clamp 75mm with clip
IPPC090	PVC clamp 90mm with clip
IPPC110	PVC clamp 110mm with clip

Pipe clamp spacer blocks



Code	Description
IPPCS016	Pipe clamp spacer 16mm
IPPCS020	Pipe clamp spacer 20mm
IPPCS025	Pipe clamp spacer 25mm
IPPCS032	Pipe clamp spacer 32mm
IPPCS040	Pipe clamp spacer 40mm
IPPCS050	Pipe clamp spacer 50mm
IPPCS063	Pipe clamp spacer 63mm
IPPCS075	Pipe clamp spacer 75mm

J Hooks



Galvanised steel hooks for suspending main supply pipes. Designed to fit over a 50mm or 60mm wide trellis. J hooks are available in a variety of sizes and configurations. Minimum order 100.

Code	Description
IYJ50-25-50	50mm J hookx25cm x 50mm
IYJ63-25-50	63mm J hookx25cm x 50mm
IYJ75-25-50	75mm J hookx25cm x 50mm
IYJ90-25-50	90mm J hookx25cm x 50mm

Mattress chain



Lightweight chain for supporting PVC pipes

Code	Description
SCM	Mattress chain (100m bucket)

Spraylines

PVC spraylines

Pressure rating 10 bar Sprayline is commonly supplied drilled at 1.5 metre with M11 or $\frac{3}{8}$ " WW thread depending on the particular nozzle type to be used.

Code	Description
IPP032-M3	32mm x 4.54m M11@1.5m
IPP032-M5	32mm x 5.04m M11 @1.0m
IPP032-W3	32mm x 4.54m $\frac{3}{8}$ " WW @1.5m
IPP032-W5	32mm x 5.04m $\frac{3}{8}$ " WW @1.0m

PVC sprayline couplings



Simple coupling for 32mm sprayline, complete or "2/3" with socket ends. Accepts plastic sprayline filter. Couplings are rated 7.5 bar.

Code	Description
IPUS-1	Complete 32mm x $1\frac{1}{4}$ " x 32mm
IPUS-3	$\frac{3}{4}$ coupling 32mm x $1\frac{1}{4}$ " BSP
IPUSF	Sprayline filter 32mm
IPTT32-5-2	Tee $1\frac{1}{4}$ " x 32mm x $1\frac{1}{4}$ "
IPTT40-5-2	Tee $1\frac{1}{4}$ " x 40mm x $1\frac{1}{4}$ "

PVC drain valves



Drains water from spraylines to prevent dripping from nozzles. PVC body with rubber seal and stainless steel spring. Use drain tube to prevent splash and to recover water. May be fitted in-line with tee or at end with elbow.

Code	Description
IPD	Drain 32mm x $1\frac{1}{4}$ " x $\frac{1}{2}$ " hose
IPDE	Drain 32mm x $1\frac{1}{4}$ " x $\frac{1}{2}$ " + elbow
IET16-1	Drain tube 16mm x 100m
IPET32-5	PVC elbow 32mm x $1\frac{1}{4}$ "
IPTT32-5	PVC tee 32mm x $1\frac{1}{4}$ " x 32mm

Sprayline endsets



Glue fitting with screw cap for the end of spraylines. See also: PVC endsets.

Code	Description
IPF32-4	Endset 32/40 mm x 1"

Sprayline hooks



Clip to a wire to suspend standard 32mm PVC sprayline. Longer lengths are available on request. Galvanised wire Sold in units of 100.

Code	Description
IYH16	Galv sprayline hook 16cm
IYH20	Galv sprayline hook 20cm
IYH24	Galv sprayline hook 24cm
IYH28	Galv sprayline hook 28cm
IYH36	Galv sprayline hook 36cm
IYH40	Galv sprayline hook 40cm
IYH60	Galv sprayline hook 60cm
IYH80	Galv sprayline hook 80cm
IYH100	Galv sprayline hook 100cm

Galvanised wire



Standard galvanised wire for hanging spraylines

Approx. Gauge	Diameter	Approx. length
12 gauge	2.5mm	650m / 25 kg
12 gauge	2.5mm	130m / 5kg

Code	Description
IYW12	12 gauge x 25kg galv. wire
IYW12-5	12 gauge x 5kg galv. wire
IYWT-3	Galv. medium tensioner No.3

Nozzles

Sprayline Nozzles

Pin nozzles



available with M11 (standard) or $\frac{3}{8}$ " WW male threads. May be used with anti-drip connector (see nozzle accessories). Diameter of coverage approx. 3.0 metres. Size in mm. Output in litres/minute @ 2 bar. Sold in packets of 100.

Code	Description	Size	Output
IPOP-1	White M11	2.5	3.7
IPOP-1W	White W/W	2.5	3.7
IPOP-2	Grey M11	2.6	4.2
IPOP-2W	Grey W/W	2.6	4.2
IPOP-3	Brown W/W	2.7	4.6
IPOP-3W	Brown W/W	2.7	4.6
IPOP-4	Violet M11	2.8	5.1
IPOP-4W	Violet W/W	2.8	5.1
IPOP-5	Orange M11	2.9	5.3
IPOP-5W	Orange W/W	2.9	5.3
IPOP-6	Blue M11	3.0	5.4
IPOP-6W	Blue W/W	3.0	5.4
IPOP-7	Green M11	3.2	6.3
IPOP-7W	Green W/W	3.2	6.3
IPOP08	Red M11	3.9	7.1
IPOP-8W	Red W/W	3.9	7.1

Bow nozzles



Available with M11 (standard) or $\frac{3}{8}$ " WW male threads. May be used with anti-drip connector (see nozzle accessories). Diameter of coverage 1.5 – 3.0 metres.

Size in mm. Output in litres / minute @ 2 bar.

Sold in packs of 100

Code	Description	Size	Output
IPOB-1	Brown M11	1.75	1.73
IPOB-1W	Brown WW	1.75	1.73
IPOB-2	Green M11	2.00	2.06
IPOB-2W	Green WW	2.00	2.06
IPOB-3	Grey M11	2.25	2.81
IPOB-3W	Grey WW	2.25	2.81
IPOB-4	Blue WW	2.50	3.50
IPOB-4W	Glue WW	2.50	3.50

Code	Description	Size	Output
IPOB5	Red M11	2.75	4.72
IPOB-5W	Red WW	2.75	4.72
IPOB-6	Orange M11	3.00	5.46
IPOB-6W	Orange WW	3.00	5.46
IPOB-7	Black M11	3.25	6.76
IPOB-7W	Black WW	3.25	6.76

Misting Nozzles

Dan fogger nozzle



A special nozzle design delivers a very fine mist. A 'leakage prevention device' (LPD) shuts the nozzle off and prevents dripping onto plants when the water is turned off. Output 28 litres / hour at optimum working pressure of 4.0 bar.

Recommended density on per 1.0 – 1.5m².

Code	Description	Output
ITMFM	Dan fogger M11	28l/hr
ITMFW	Dan fogger $\frac{3}{8}$ WW	28l/hr
ITMFE	Dan fogger PE	28l/hr

Misting nozzles



Available with M11 (standard) or $\frac{3}{8}$ " WW male threads. May be used with anti-drip connector (see nozzle accessories). Diameter of coverage 1.0 – 1.5m.

Size in mm. Output in litres/minute @ 2 bar

Sold in packs of 100

Code	Description	Size	Output
IPOM-1	Blue / White M11	1.00	0.65
IPOM-1W	Blue / White WW	1.00	0.65
IPOM-2	Red / White M11	1.25	0.90
IPOM-2W	Red / White WW	1.25	0.90
IPOM-3	Black / White M11	1.50	1.30
IPOM-3W	Black / White WW	1.50	1.30

Nozzle accessories



Code	Description
IPOAW	Anti-drip connector 3/8" WW
IPOAM	Anti-drip connector M11
IPOD	Dummy (blanking) nozzle M11
IPODW	Dummy (blanking) nozzle 3/8" WW
IPOC	Adaptor 3/8" F x M11 M
IPOG	Grommet 3/8" WW
IPOR11	Nozzle risers M11
IPOR3	Nozzle risers 3/8" WW

Naan misting nozzles



Designed to fit in standard spraylines, the Naan mist nozzles produce very fine droplets which are ideal for propagation areas.

The Naan drainage preventer fits in the base of the nozzle and shuts off the flow except when the system is under pressure. This prevents dripping on valuable plants and ensures the whole system is full on start-up.

Diameters only approximate

Nozzle colour	Code	Litres/hour	Diam. m
Black	IMNN-B	33	1.0
Red	IMNN-R	61	1.2
Blue	IMNN-L	103	1.6
Yellow	IMNN-Y	128	1.8
Green	IMNN-G	166	2.2
Brown	IMNN-N	265	2.7

Code	Description
IMNN-B	Naan mist nozzle black
IMNN-R	Naan mist nozzle red
IMNN-L	Naan mist nozzle blue
IMNN-Y	Naan mist nozzle yellow
IMNN-G	Naan mist nozzle green
IMNN-N	Naan mist nozzle brown

Naan 180° misting nozzles

For irrigation in greenhouses and gardens. Fitted for spraying along the walls of glasshouse, gardens and lawn edges.

Radius only approximate.

Nozzle colour	Code	Litres/hour	Diam. m
Red	ITAH-R	61	1.45
Blue	ITAH-L	103	1.55
Yellow	ITAH-Y	128	1.65
Green	ITAH-G	166	1.70
Brown	ITAH-N	265	1.85

Code	Description
ITAH-R	Naan 180° mist nozzle red
ITAH-L	Naan 180° mist nozzle blue
ITAH-Y	Naan 180° mist nozzle yellow
ITAH-G	Naan 180° mist nozzle green
ITAH-N	Naan 180° mist nozzle brown

Naan Accessories



Code	Description
IMNNP	4mm drainage preventer
IMNNB-1	1/2" bayonet base
IMNNB-2	3/8" WW bayonet base
IMNNB-F	Barbed bayonet base
IMNNB-M	Male bayonet base
IMNNB-P	Plug bayonet
IMNNB-B	Barbed connector
IDLP4	PE hole punch 4mm
IDLPQ20-4	Quick cut punch 4mm 16/20

Amber light misting nozzles



1/2" BSP, M11, 3/8" WW and anti drip valve.

Hole size 0.8mm. Output in 0.68 is litre / min at 2 bar. Diameter coverage 1.3m.

Minimum recommended height above plants is 90cm.

Code	Description
IMA-2	Amber nozzle 1/2" BSP
IMA-M	Amber nozzle M 11
IMA-W	Amber nozzle 3/8" WW
IMAA	Anti drip valve 1/2" nozzle only

TYPICAL COMBINATION: NAAN MISTING NOZZLE PLUS BASE, WITH OR WITHOUT DRAINAGE PREVENTER

Mini Sprinklers

Dan bridge green swivel



Mini-sprinklers are the modern alternative to pin nozzles for use in situations where excellent coverage is required. One line of nozzles is used per 3-5 metre bay, with nozzles spaced at 1 to 1.5m intervals, depending on sprinkler size and crop. The sprinklers are available with M11, 3/8" WW or PE bases.

Sprinklers are available with a 'leakage prevention device' (LPD) which shuts the nozzle off and prevents dripping onto plants when the water is turned off. Because the header pipes remain full of water, the system starts up faster and more uniformly than drained systems.

For new systems the LPD is integral with PE, 3/8" WW or M11 base or for replacement systems it is available as a separate item.

Minimum working pressure: 18m
Opening pressure: 14-17m
Closing pressure: 10-13m

Example flow rate in litres per hour						
Pressure in bar:	1.0	1.5	2.0	2.5	3.0	3.5
Green nozzle 1.4mm	74	91	105	117	129	139
Yellow nozzle 1.7mm	113	139	160	179	196	212

Further flow rates available on request.

Code	Description
ITMC-G	Bridge swivel only – green
ITMC-Y	Bridge swivel only – yellow
ITMCA-G	Bridge swivel + antimist green
ITMCA-Y	Bridge swivel + antimist yellow

Dan bridgeless green swivel

Code	Description
ITMG-B	Bridgeless swivel only – blue
ITMG-G	Bridgeless swivel only – green
ITMG-K	Bridgeless swivel only – black

Dan small black swivel

Code	Description
ITMK-B	Small swivel + antimist blue
ITMK-G	Small swivel + antimist green
ITMK-Y	Small swivel + antimist yellow

Dan mini sprinkler base

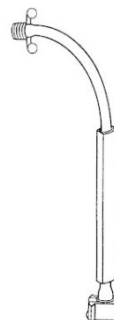


Code	Description
ITMB-2	Minisprinkler base 1/2"
ITMBE	Minisprinkler base PE
ITMBM	Minisprinkler base M11
ITMBW	Minisprinkler base 3/8" WW
ITMBEL	Minisprinkler base PE + LPD
ITMBML	Minisprinkler base M11 + LPD
ITMBWL	Minisprinkler base WW + LPD

Mini sprinkler accessories

Code	Description
ITMA-B	Antimist only – blue
ITMA-G	Antimist only – green
ITMA-O	Antimist only – orange
ITMA-Y	Antimist only – yellow
ITML 1.5	Dan 1.5 bar LPD only
ITML 4.0	Dan 4.0 bar LPD only
ITMSH	Dan 180 deg spreader only
ITMSS	Dan strip spreader only

Nozzle droppers



Easy method of dropping the mini-sprinklers to a lower height to control spread. Droppers are particularly useful in polytunnels. Incorporate a clever 'Fast and Fast' (FNF) clip which allow nozzles to be moved or capped off very easily.

Code	Description
ITMD	30cm FNF nozzle dropper M11
ITMD60	60cm FNF nozzle dropper M11
ITMDC	Dropper FNF barrel connector
ITMDW30	30cm FNF nozzle dropper 3/8"
ITMDW60	60cm FNF nozzle dropper 3/8"

**TYPICAL COMBINATION: NAAN MISTING
NOZZLE PLUS BASE, WITH OR WITHOUT
DRAINAGE PREVENTER**

Glue and Tape

Saba glue and cleaner



Saba 914 is a thinner glue used on tight fitting joints, generally up to 32mm in size.

Sabas S3 is thicker and better at gap filling and is generally used on all larger size pipe and fittings.

MEC cleaner may be use where surfaces to be joined are particularly dirty or oily to improve the bond.

Wet 'R' Dry 725 is a quick drying glue for use in wet or dry conditions. Able to withstand pressure in minutes. Full joint strength in 4 hours. Suitable for pipes up to 90mm in size.

Caution: These products contain highly flammable solvents and may cause irritation to eyes and respiratory system. Please take appropriate precautions.

Code	Description
IYGA-1	Saba Glue 914 ¼ litre
IYGA-2	Saba Glue 914 1 litre
IYGB-1	Saba Glue S3 ¼ litre
IYGB-2	Saba Glue S3 1 litre
IYGC-1	Saba Cleaner MEC ¼ litre
IYGC-2	Saba Cleaner MEC 1 litre
IYGW-1	Wet 'R' Dry 725 ¼ litre
IYGW-2	Wet 'R' Dry 725 ½ litre

PTFE tape



Standard PTFE tape for sealing threaded connections.

Code	Description
IYF	PTFE tape 12m

PVC Fittings

Most of the following fittings are manufactured by VDL and are rated 10 bar.

PVC bends - 45°



Code	Description
IPBF032	Bend 45° 32mm x 32mm
IPBF040	Bend 45° 40mm x 40mm
IPBF050	Bend 45° 50mm x 50mm
IPBF063	Bend 45° 63mm x 63mm
IPBF075	Bend 45° 75mm x 75mm
IPBF090	Bend 45° 90mm x 90mm
IPBF110	Bend 45° 110mm x 100mm

PVC bends - 90°



Code	Description
IPBN032	Bend 90° 32mm x 32mm
IPBN040	Bend 90° 40mm x 40mm
IPBN050	Bend 90° 50mm x 50mm
IPBN063	Bend 90° 63mm x 63mm
IPBN075	Bend 90° 75mm x 75mm
IPBN090	Bend 90° 90mm x 90mm
IPBN110	Bend 90° 110mm x 100mm

PVC – S-bends



Code	Description
IPBS032	S Bends 32mm x 32mm
IPBS040	S Bends 40mm x 40mm
IPBS050	S Bends 50mm x 50mm

PVC cross pieces



Code	Description
IPX020	Cross 20 x 20 x 20 x 20mm
IPX025	Cross 25 x 25 x 25 x 25mm
IPX032	Cross 32 x 32 x 32 x 32mm
IPX4032	Cross 40 x 32 x 40 x 32mm
IPX040	Cross 40 x 40 x 40 x 40mm
IPX5032	Cross 50 x 32 x 50 x 32mm
IPX050	Cross 50 x 50 x 50 x 50mm
IPX063	Cross 63 x 63 x 63 x 63mm
IPX075	Cross 75 x 75 x 75 x 75mm
IPX090	Cross 90 x 90 x 90 x 90mm

PVC elbows - 45°



Code	Description
IPEF020	Elbow 45° 20mm x 20mm
IPEF025	Elbow 45° 25mm x 25mm
IPEF032	Elbow 45° 32mm x 32mm
IPEF040	Elbow 45° 40mm x 40mm
IPEF050	Elbow 45° 50mm x 50mm
IPEF063	Elbow 45° 63mm x 63mm
IPEF075	Elbow 45° 75mm x 75mm
IPEF090	Elbow 45° 90mm x 90mm
IPEF110	Elbow 45° 110mm x 110mm

PVC elbows – 90°



Code	Description
IPEN020	Elbow 20mm x 20mm
IPEN025	Elbow 25mm x 25mm
IPEN032	Elbow 32mm x 32mm
IPEN040	Elbow 40mm x 40mm
IPEN050	Elbow 50mm x 50mm
IPEN063	Elbow 63mm x 63mm
IPEN075	Elbow 75mm x 75mm
IPEN090	Elbow 90mm x 90mm
IPEN110	Elbow 110mm x 110mm

PVC elbows – reducing 90°



Code	Description
IPER4032	Elbow 40mm x 32mm
IPER5032	Elbow 50mm x 32mm
IPER5040	Elbow 50mm x 40mm

PVC elbow 90° - male thread



Code	Description
IPET32-5	Elbow 32 x 1¼" M
IPET40-5	Elbow 40 x 1¼" M
IPET50-5	Elbow 50 x 1¼" M

PVC endsets



Code	Description
IPF32-4	Endset 32/40 mm x 1"
IPF40-5	Endset 40/50mm x 1¼"

PVC screw caps



Internal threaded caps complete with rubber washers.

Code	Description
IPFS-2	Screw cap ½" F
IPFS-3	Screw cap ¾" F
IPFS-4	Screw cap 1" F
IPFS-5	Screw cap 1¼" F
IPFS-6	Screw cap 1½" F
IPFS-7	Screw cap 2" F
IPFS-9	Screw cap 3" F

PVC glue caps



Code	Description
IPFG020	Glue cap 20mm
IPFG025	Glue cap 25mm
IPFG032	Glue cap 32mm
IPFG040	Glue cap 40mm
IPFG050	Glue cap 50mm
IPFG063	Glue cap 63mm
IPFG075	Glue cap 75mm
IPFG090	Glue cap 90mm
IPFG110	Glue cap 110mm

PVC equal tees



Code	Description
IPT020	Tee 20 x 20 x 20mm
IPT025	Tee 25 x 25 x 25mm
IPT032	Tee 32 x 32 x 32mm
IPT040	Tee 40 x 40 x 40mm
IPT050	Tee 50 x 50 x 50mm
IPT063	Tee 63 x 63 x 63mm
IPT075	Tee 75 x 75 x 75mm
IPT090	Tee 90 x 90 x 90mm
IPT110	Tee 110 x 110 x 110mm

PVC take off tees – male thread



Code	Description
IPTT25-4	Threaded tee 25 x 1" x 25mm
IPTT32-4	Threaded tee 32 x 1" x 32mm
IPTT32-5	Threaded tee 32 x 1¼" x 32mm
IPTT32-5-2	Threaded tee 1¼" x 32mm x 1¼"
IPTT40-5	Threaded tee 40 x 1¼" x 40mm
IPTT40-5-2	Threaded tee 1¼" x 40 x 1¼"
IPTT40-6	Threaded tee 40 x 1½" x 40mm
IPTT50-6	Threaded tee 50 x 1½" x 50mm
IPTT63-6	Threaded tee 63 x 1½" x 63mm
IPTT75-6	Threaded tee 75 x 1½" x 75mm

PVC reducing tees



Code	Description
IPTR2520	Tee 25 x 20 x 25mm
IPTR3225	Tee 32 x 25 x 32mm
IPTR4025	Tee 40 x 25 x 40mm
IPTR4032	Tee 40 x 32 x 40mm
IPTR5032	Tee 50 x 32 x 50mm
IPTR5040	Tee 50 x 40 x 50mm
IPTR6332	Tee 63 x 32 x 63mm
IPTR6340	Tee 63 x 40 x 63mm
IPTR6350	Tee 63 x 50 x 63mm
IPTR7532	Tee 75 x 32 x 75mm
IPTR7540	Tee 75 x 40 x 75mm
IPTR7550	Tee 75 x 50 x 75mm
IPTR7563	Tee 75 x 63 x 75mm
IPTR9050	Tee 90 x 50 x 90mm
IPTR9063	Tee 90 x 63 x 90mm
IPTR9075	Tee 90 x 75 x 90mm

PVC sockets glue



Code	Description
IPS020	Socket 20mm x 20mm
IPS025	Socket 25mm x 25mm
IPS032	Socket 32mm x 32mm
IPS040	Socket 40mm x 40mm
IPS050	Socket 50mm x 50mm
IPS063	Socket 63mm x 63mm
IPS075	Socket 75mm x 75mm
IPS090	Socket 90mm x 90mm
IPS110	Socket 110mm x 110mm

PVC repair sockets – rubber glue



Push fit repair sockets for PVC pressure pipe.

Code	Description
IPSP050	Repair socket 50mm rubber ring
IPSP063	Repair socket 63mm rubber ring
IPSP075	Repair socket 75mm rubber ring
IPSP090	Repair socket 90mm rubber ring
IPSP110	Repair socket 110mm rubber ring

PVC sockets - reducing



Code	Description
IPSR2520	Socket 25mm x 20mm
IPSR3220	Socket 32mm x 20mm
IPSR3225	Socket 32mm x 25mm
IPSR4032	Socket 40mm x 32mm
IPSR5032	Socket 50mm x 32mm
IPSR5040	Socket 50mm x 40mm
IPSR6350	Socket 63mm x 50mm
IPSR7550	Socket 75mm x 50mm
IPSR7563	Socket 75mm x 63mm
IPSR9075	Socket 90mm x 75mm

PVC sockets - female



Code	Description
IPST-1	Threaded socket 3/8" F x 3/8" F
IPST-2	Threaded socket 1/2" F x 1/2" F
IPST-3	Threaded socket 3/4" F x 3/4" F
IPST-4	Threaded socket 1" F x 1" F
IPST-5	Threaded socket 1 1/4" F x 1 1/4" F
IPST-6	Threaded socket 1 1/2" F x 1 1/2" F
IPST-7	Threaded socket 2" F x 2" F

PVC nipples - male



Code	Description
IPN-A	Nipple 3/8" x 3/8"
IPN-2	Nipple 1/2" x 1/2"
IPN-3	Nipple 3/4" x 3/4"
IPN-4	Nipple 1" x 1"
IPN-5	Nipple 1 1/4" x 1 1/4"
IPN-6	Nipple 1 1/2" x 1 1/2"
IPN-7	Nipple 2" x 2"

PVC reducing nipples



Code	Description
IPNR2-A	Reducing nipple 1/2" x 3/8"
IPNR3-2	Reducing nipple 3/4" x 1/2"
IPNR4-3	Reducing nipple 1" x 3/4"
IPNR5-4	Reducing nipple 1 1/4" x 1"
IPNR6-5	Reducing nipple 1 1/2" x 1 1/4"
IPNR7-6	Reducing nipple 2" x 1 1/2"

PVC reducing rings



Code	Description
IPRR2016	Reducing ring 20mm x 16mm
IPRR2520	Reducing ring 25mm x 20mm
IPRR3216	Reducing ring 32mm x 16mm
IPRR3220	Reducing ring 32mm x 20mm
IPRR3225	Reducing ring 32mm x 25mm
IPRR4025	Reducing ring 40mm x 25mm
IPRR4032	Reducing ring 40mm x 32mm
IPRR5032	Reducing ring 50mm x 32mm
IPRR5040	Reducing ring 50mm x 40mm
IPRR6332	Reducing ring 63mm x 32mm
IPRR6340	Reducing ring 63mm x 40mm
IPRR6350	Reducing ring 63mm x 50mm
IPRR7532	Reducing ring 75mm x 32mm
IPRR7540	Reducing ring 75mm x 40mm
IPRR7550	Reducing ring 75mm x 50mm
IPRR7563	Reducing ring 75mm x 63mm
IPRR9050	Reducing ring 90mm x 50mm
IPRR9063	Reducing ring 90mm x 63mm
IPRR9075	Reducing ring 90mm x 75mm
IPRR11090	Reducing ring 110mm x 90mm

PVC reducing bushes



Code	Description
IPRB20-1	Reducing bush 20mm x 1/4" F
IPRB25-2	Reducing bush 25mm x 1/2" F
IPRB32-2	Reducing bush 32mm x 1/2" F
IPRB32-3	Reducing bush 32mm x 3/4" F
IPRB32-4	Reducing bush 32mm x 1" F
IPRB40-3	Reducing bush 40mm x 3/4" F
IPRB40-4	Reducing bush 40mm x 1" F
IPRB50-4	Reducing bush 50mm x 1" F
IPRB50-5	Reducing bush 50mm x 1 1/4" F
IPRB63-5	Reducing bush 63mm x 1 1/4" F
IPRB63-6	Reducing bush 63mm x 1 1/2" F
IPRB75-6	Reducing bush 75mm x 1 1/2" F
IPRB75-7	Reducing bush 75mm x 2" F

PVC unions



Code	Description
IPU020	Union 20mm x 20mm
IPU025	Union 25mm x 25mm
IPU032	Union 32mm x 32mm
IPU040	Union 40mm x 40mm
IPU050	Union 50mm x 50mm
IPU063	Union 63mm x 63mm
IPU075	Union 75mm x 75mm
IPU090	Union 90mm x 90mm
IPU110	Union 110mm x 110mm

PVC connectors - female



Code	Description
IPCF020-2	Connector 20mm x 1/2" F
IPCF025-2	Connector 25mm x 1/2" F
IPCF032-2	Connector 32mm x 1/2" F
IPCF032-3	Connector 32mm x 3/4" F
IPCF032-4	Connector 32mm x 1" F
IPCF040-4	Connector 40mm x 1" F
IPCF040-5	Connector 40mm x 1 1/4" F
IPCF050-5	Connector 50mm x 1 1/4" F
IPCF050-6	Connector 50mm x 1 1/2" F
IPCF063-6	Connector 63mm x 1 1/2" F
IPCF063-7	Connector 63mm x 2" F
IPCF090-9	Connector 90mm x 3" F

PVC connectors - male



Code	Description
IPC020-2	Connector 20mm x 1/4"
IPC020-3	Connector 20mm x 3/4"
IPC025-2	Connector 25/32mm x 1/2"
IPC025-3	Connector 25/32mm x 3/4"
IPC025-4	Connector 25/32mm x 1"
IPC032-2	Connector 32/40mm x 1/2"
IPC032-3	Connector 32/40mm x 3/4"
IPC032-4	Connector 32/40mm x 1"
IPC032-5	Connector 32/40mm x 1 1/4"
IPC040-4	Connector 40/50mm x 1"
IPC040-5	Connector 40/50mm x 1 1/4"
IPC040-6	Connector 40/50mm x 1 1/2"
IPC050-4	Connector 50/63mm x 1"
IPC050-5	Connector 50/63mm x 1 1/4"
IPC050-6	Connector 50/63mm x 1 1/2"
IPC050-7	Connector 50/63mm x 2"
IPC063-5	Connector 63/75mm x 1 1/4"
IPC063-6	Connector 63/75mm x 1 1/2"
IPC063-7	Connector 63/75mm x 2"
IPC075-7	Connector 75/90mm x 2"
IPC075-9	Connector 75/90mm x 3"
IPC090-9	Connector 90/110mm x 3"

PVC imperial/metric adaptors



Plain imperial pipe to plain PVC – not threaded

Code	Description
IPI20	Adaptor 1/2" x 20mm
IPI25	Adaptor 3/4" x 25mm
IPI32	Adaptor 1" x 32mm
IPI40	Adaptor 1 1/4" x 40mm
IPI50	Adaptor 1 1/2" x 50mm
IPI63	Adaptor 2" x 63mm
IPI90	Adaptor 3" x 90mm

**OTHER IMPERIAL PIPE FITTINGS
AVAILABLE TO ORDER**

PVC/PE fittings



Code	Description
IED20	Connector 25/32 x 20mm PE
IED25	Connector 25/32 x 25mm PE
IED32	Connector 40/32 x 32mm PE
IEE16	Elbow 32 x 16mm PE
IEE20	Elbow 32 x 20mm PE
IEE25	Elbow 32 x 25mm PE

PVC low pressure reducers – glue



Code	Description
ILRR1211	Reducer 125 x 110mm
ILRR1611	Reducer 160 x 110mm
ILRR1612	Reducer 160 x 125mm
ILRR2012	Reducer 200 x 125mm
ILRR2016	Reducer 200 x 160mm

PVC Low Pressure Pipe

PVC low pressure pipe – class 65

Commonly used for draining water above ground. Other classes and larger pipe diameters are available on request. Plain pipe has a solvent socket at one end. Sizes are external diameter x length.



Code	Description
ILP110	110mm x 5.0m LP pipe
ILP125	125mm x 5.0m LP pipe
ILP160	160mm x 5.0m LP pipe
ILP200	200mm x 5.0m LP pipe

PVC Low Pressure Fittings

PVC low pressure elbows – ring



Code	Description
ILENZ110	Bend 110 x 110mm
ILENZ125	Bend 125 x 125mm
ILENZ160	Bend 160 x 160mm
ILENZ200	Bend 200 x 200mm

PVC low pressure sockets – ring

Push fit, rubber ring fittings.

Code	Description
ILSZ110	Socket 110 x 110mm
ILSZ125	Socket 125 x 125mm
ILSC160	Socket 160 x 160mm
ISLZ200	Socket 200 x 200mm

PVC low pressure tees – ring



Code	Description
ILTZ110	Tee 110 x 110 x 110mm
ILTZ125	Tee 125 x 125 x 125mm
ILTZ160	Tee 160 x 160 x 160mm
ILTZ200	Tee 200 x 200 x 200mm

PVC low pressure caps – glue



Code	Description
ILC110	Cap 110mm glue
ILC125	Cap 125mm glue
ILC160	Cap 160mm glue
ILC200	Cap 200mm glue

OTHER IMPERIAL PIPE FITTINGS
AVAILABLE TO ORDER

Galvanised Pipe

Galvanised pipe with 1" thread at each end. Useful for standpipes and hand watering points.

Galvanised pipe



Code	Description
IQP4-40	1" nominal 40cm threaded
IQP4-80	1" nominal 80cm threaded

Galvanised pipe ring clamp



A galvanised ring clamp for supporting 1" nominal size tube. Base plate and clamp threaded for M10 studding.

Code	Description
IQPC-4	Pipe ring clamp 1"
IQPCB-4	Ring clamp base 1"
GT10	Studding M10 x 1000mm

Galvanised Steel Fittings

Galvanised elbows 45° female



Galvanised steel 45° elbow with female thread both ends.

Code	Description
IQEF2	Galv. 45° F/F elbow ½"
IQEF3	Galv. 45° F/F elbow ¾"
IQEF4	Galv. 45° F/F elbow 1"
IQEF5	Galv. 45° F/F elbow 1¼"
IQEF6	Galv. 45° F/F elbow 1½"
IQEF7	Galv. 45° F/F elbow 2"

Galvanised elbow 45° female/male



Galvanised steel 45° elbow with male thread one end and female thread the other end.

Code	Description
IQEFM2	Galv. 45° F/M elbow ½"
IQEFM3	Galv. 45° F/M elbow ¾"
IQEFM4	Galv. 45° F/M elbow 1"

Galvanised elbows 90° female



Galvanised steel 90° elbow with female thread both ends.

Code	Description
IQEN2	Galv. 90° F/F elbow ½"
IQEN3	Galv. 90° F/F elbow ¾"
IQEN4	Galv. 90° F/F elbow 1"
IQEN5	Galv. 90° F/F elbow 1¼"
IQEN6	Galv. 90° F/F elbow 1½"
IQEN7	Galv. 90° F/F elbow 2"

Galvanised elbows – 90° female/male



Galvanised steel 90° elbow with male thread one end and female thread the other end.

Code	Description
IQENM2	Galv. 90° F/M elbow ½"
IQENM3	Galv. 90° F/M elbow ¾"
IQENM4	Galv. 90° F/M elbow 1"
IQENM5	Galv. 90° F/M elbow 1¼"
IQENM6	Galv. 90° F/M elbow 1½"
IQENM7	Galv. 90° F/M elbow 2"

Galvanised equal tees – female



Galvanised steel equal female tee.

Code	Description
IQT2	Galv. equal tee ½"
IQT3	Galv. equal tee ¾"
IQT4	Galv. equal tee 1"
IQT5	Galv. equal tee 1¼"
IQT6	Galv. equal tee 1½"
IQT7	Galv. equal tee 2"

Galvanised sockets – female



Galvanised steel socket with female thread both ends.

Code	Description
IQS2	Galv. socket ½"
IQS3	Galv. socket ¾"
IQS4	Galv. socket 1"
IQS5	Galv. socket 1¼"
IQS6	Galv. socket 1½"
IQS7	Galv. socket 2"

Galvanised reducing sockets – female



Galvanised reducing socket with female thread both ends.

Code	Description
IQSR3-2	Galv. reducing socket ¾" x ½"
IQSR4-2	Galv. reducing socket 1" x ½"
IQSR4-3	Galv. reducing socket 1" x ¾"
IQSR5-4	Galv. reducing socket 1¼" x 1"
IQSR6-3	Galv. reducing socket 1½" x ¾"
IQSR6-4	Galv. reducing socket 1½" x 1"
IQSR6-5	Galv. reducing socket 1½" x 1¼"
IQSR7-4	Galv. reducing socket 2" x 1"
IQSR7-5	Galv. reducing socket 2" x 1¼"
IQSR7-6	Galv. reducing socket 2" x 1½"

Galvanised equal nipples – male



Galvanised steel equal nipples with male thread both ends.

Code	Description
IQN2	Galv. nipple ½"
IQN3	Galv. nipple ¾"
IQN4	Galv. nipple 1"
IQN5	Galv. nipple 1¼"
IQN6	Galv. nipple 1½"
IQN7	Galv. nipple 2"

Galvanised reducing nipples – male



Galvanised steel reducing nipple with male thread both ends

Code	Description
IQNR3-2	Galv. reducing nipple ¾" x ½"
IQNR4-2	Galv. reducing nipple 1" x ½"
IQNR4-3	Galv. reducing nipple 1" x ¾"
IQNR5-2	Galv. reducing nipple 1¼" x ½"
IQNR5-3	Galv. reducing nipple 1¼" x ¾"
IQNR5-4	Galv. reducing nipple 1¼" x 1"
IQNR6-4	Galv. reducing nipple 1½" x 1"
IQNR6-5	Galv. reducing nipple 1½" x 1¼"
IQNR7-4	Galv. reducing nipple 2" x 1"
IQNR7-5	Galv. reducing nipple 2" x 1¼"
IQNR7-6	Galv. reducing nipple 2" x 1½"

Galvanised reducing bushes



Galvanised steel reducing bush, male/female thread.

Code	Description
IQBR2-1	Galv. reducing bush ½" x ¼"
IQBR3-2	Galv. reducing bush ¾" x ½"
IQBR4-2	Galv. reducing bush 1" x ½"
IQBR4-3	Galv. reducing bush 1" x ¾"
IQBR5-2	Galv. reducing bush 1¼" x ½"
IQBR5-3	Galv. reducing bush 1¼" x ¾"
IQBR5-4	Galv. reducing bush 1¼" x 1"
IQBR6-2	Galv. reducing bush 1½" x ½"
IQBR6-3	Galv. reducing bush 1½" x ¾"
IQBR6-4	Galv. reducing bush 1½" x 1"
IQBR6-5	Galv. reducing bush 1½" x 1¼"
IQBR7-2	Galv. reducing bush 2" x ½"
IQBR7-4	Galv. reducing bush 2" x 1"
IQBR7-5	Galv. reducing bush 2" x 1¼"
IQBR7-6	Galv. reducing bush 2" x 1½"

Galvanised unions – female



Galvanised steel union, female both ends.

Code	Description
IQU2	Galv. F/F union ½"
IQU3	Galv. F/F union ¾"
IQU4	Galv. F/F union 1"
IQU5	Galv. F/F union 1¼"
IQU6	Galv. F/F union 1½"
IQU7	Galv. F/F union 2"

Galvanised cap – female



Galvanised steel female cap.

Code	Description
IQFS-2	Galv. cap ½"
IQFS-3	Galv. cap ¾"
IQFS-4	Galv. cap 1"
IQFS-5	Galv. cap 1¼"
IQFS-6	Galv. cap 1½"
IQFS-7	Galv. cap 2"

PE Tube

Low density PE tube (LDPE) 4 bar



Good quality LDPE tube for irrigation lateral lines. Suitable for use inside or outside.

Code	Description
IET05-2	LDPE tube 5 x 3mm x 200m
IET08-1	LDPE tube 8 x 6mm x 100m
IET12-1	LDPE tube 12 x 10mm x 100m
IET12-2	LDPE tube 12 x 10mm x 100m
IET16-1	LDPE tube 16 x 13.6mm x 100m
IET16-2	LDPE tube 16 x 13.6mm x 200m
IET20-1	LDPE tube 20 x 17mm x 100m
IET20-2	LDPE tube 20 x 17mm x 200m
IET20-5	LDPE tube 20 x 17mm x 500m
IET25-1	LDPE tube 25 x 21mm x 100m
IET32-1	LDPE tube 32 x 26.6mm x 100m

10/12 BAR PE TUBE

ALSO AVAILABLE FOR UNDERGROUND USE

Medium density PE tube (MDPE) - blue 12.5 bar



Blue MDPE conforms to BS6572 Spec. SDR 11 for drinking water. Sold in 25m, 50m and 100m rolls.

Code	Description
IETMB20-A	MDPE tube blue 20mm x 25m
IETMB20-B	MDPE tube blue 20mm x 50m
IETMB20-1	MDPE tube blue 20mm x 100m
IETMB25-A	MDPE tube blue 25mm x 25m
IETMB25-B	MDPE tube blue 25mm x 50m
IETMB25-1	MDPE tube blue 25mm x 100m
IETMB32-A	MDPE tube blue 32mm x 25m
IETMB32-B	MDPE tube blue 32mm x 50m
IETMB32-1	MDPE tube blue 32mm x 100m
IETMB50-A	MDPE tube blue 50mm x 25m
IETMB50-B	MDPE tube blue 50mm x 50m
IETMB50-1	MDPE tube blue 50mm x 100m
IETMB63-A	MDPE tube blue 63mm x 25m
IETMB63-B	MDPE tube blue 63mm x 50m
IETMB63-1	MDPE tube blue 63mm x 100m

50 and 63mm MDPE subject to additional delivery charge.

Heating Tube

Low density PE tube (LDPE) 6 bar

6 bar tube normally used for floor and intercrop heating.

Code	Description
IET25H-1	LDPE tube 25mm x 100m
IET32H-1	LDPE tube 32mm x 100m

Ribbed PE tube - heating



A ribbed tube for floor and bench heating systems.

Rated for a maximum of 80° C with a suggested working temperature of 60°C.

Code	Description
IETR25	Ribbed tube 25mm x 250m

PE hose support clip



A clip for holding PE tube to a straining wire in drip and heating systems.

Code	Description
IEH16	Support clip 16mm
IEH20	Support clip 20mm
IEH25	Support clip 25mm
IEH32	Support clip 32mm

PE Tube Compression Fittings

PE tube fittings are sized according to the outside diameter of the tube they fit. Each connection consists of a collar, an insert and the body which has an internal O-ring. To assemble a joint, first slide the collar onto the tube. Then push the insert about 1cm onto the tube. The insert is barbed internally so it will slide onto the tube but not off. The tube is then pushed firmly into the body, past the O-ring until it can go no further. The collar can then be screwed up, clamping the insert and tube onto the body of the fitting.

Maximum working temperature 80°C

Maximum pressure at 20°C: 10 bar

PE tube couplings



Code	Description
IECP20	PE coupling 20 x 20mm
IECP25	PE coupling 25 x 25mm
IECP32	PE coupling 32 x 32mm
IECP40	PE coupling 40 x 40mm
IECP50	PE coupling 50 x 50mm
IECP63	PE coupling 63 x 63mm

PE tube endsets



Code	Description
IEF20	PE endsets 20mm
IEF25	PE endsets 25mm
IEF32	PE endsets 32mm
IEF40	PE endsets 40mm
IEF50	PE endsets 50mm
IEF63	PE endsets 63mm

PE tube elbows - 90°



Code	Description
IEEN20	PE elbow 20 x 20mm
IEEN25	PE elbow 25 x 25mm
IEEN32	PE elbow 32 x 32mm
IEEN40	PE elbow 40 x 40mm
IEEN50	PE elbow 50 x 50mm
IEEN63	PE elbow 63 x 63mm

PE tube elbows – male thread



Code	Description
IEET32-4	PE elbow 32mm x 1" M
IEET32-5	PE elbow 32mm x 1¼" M
IEET40-4	PE elbow 40mm x 1" M
IEET40-5	PE elbow 40mm x 1¼" M
IEET40-6	PE elbow 40mm x 1½" M
IEET50-6	PE elbow 50mm x 1½" M
IEET50-7	PE elbow 50mm x 2" M

PE tube elbows - female



Code	Description
IEETF32-4	PE elbow 32mm x 1" F
IEETF32-5	PE elbow 32mm x 1¼" F
IEETF40-4	PE elbow 40mm x 1" F
IEETF40-5	PE elbow 40mm x 1¼" F
IEETF40-6	PE elbow 40mm x 1½" F
IEETF50-6	PE elbow 50mm x 1½" F
IEETF50-7	PE elbow 50mm x 2" F

PE tube adaptors – female thread



Code	Description
IEAF20-2	PE adaptor 20mm x ½" F
IEAF20-3	PE adaptor 20mm x ¾" F
IEAF20-4	PE adaptor 20mm x 1" F
IEAF25-2	PE adaptor 25mm x ½" F
IEAF25-3	PE adaptor 25mm x ¾" F
IEAF25-4	PE adaptor 25mm x 1" F
IEAF32-3	PE adaptor 32mm x ¾" F
IEAF32-4	PE adaptor 32mm x 1" F
IEAF32-5	PE adaptor 32mm x 1¼" F
IEAF40-4	PE adaptor 40mm x 1" F
IEAF40-5	PE adaptor 40mm x 1¼" F
IEAF40-6	PE adaptor 40mm x 1½" F
IEAF50-5	PE adaptor 50mm x 1¼" F
IEAF50-6	PE adaptor 50mm x 1½" F
IEAF50-7	PE adaptor 50mm x 2" F
IEAF63-6	PE adaptor 63mm x 1½" F
IEAF63-7	PE adaptor 63mm x 2" F

PE tube adaptors – male thread



Code	Description
IEAM20-2	PE adaptor 20mm x ½" M
IEAM20-3	PE adaptor 20mm x ¾" M
IEAM25-2	PE adaptor 25mm x ½" M
IEAM25-3	PE adaptor 25mm x ¾" M
IEAM25-4	PE adaptor 25mm x 1" M
IEAM32-3	PE adaptor 32mm x ¾" M
IEAM32-4	PE adaptor 32mm x 1" M
IEAM32-5	PE adaptor 32mm x 1¼" M
IEAM40-4	PE adaptor 40mm x 1" M
IEAM40-5	PE adaptor 40mm x 1¼" M
IEAM40-6	PE adaptor 40mm x 1½" M
IEAM50-6	PE adaptor 50mm x 1½" M
IEAM50-7	PE adaptor 50mm x 2" M
IEAM63-6	PE adaptor 63mm x 1½" M
IEAF63-7	PE adaptor 63mm x 2" M

PE tube tees 90°



Code	Description
IEV20	PE tee 20 x 20 x 20mm
IEV25	PE tee 25 x 25 x 25mm
IEV32	PE tee 32 x 32 x 32mm
IEV40	PE tee 40 x 40 x 40mm
IEV50	PE tee 50 x 50 x 50mm
IEV63	PE tee 63 x 63 x 63mm

PE tube tees – female thread



Code	Description
IEVTF20-2	PE tee 20 x ½" F x 20mm
IEVTF25-3	PE tee 25 x ¾" F x 25mm
IEVTF32-4	PE tee 32 x 1" F x 32mm
IEVTF32-5	PE tee 32 x 1¼" F x 32mm
IEVTF40-4	PE tee 40 x 1" F x 40mm
IEVTF40-5	PE tee 40 x 1¼" F x 40mm
IEVTF40-6	PE tee 40 x 1½" F x 40mm
IEVTF50-6	PE tee 50 x 1½" F x 50mm
IEVTF50-7	PE tee 50 x 2" F x 50mm
IEVTF63-6	PE tee 63 x 1½" F x 63mm
IEVTF63-7	PE tee 63 x 2" F x 63mm

PE tube tees – male thread



Code	Description
IEVT32-4	PE tee 32 x 1" M x 32mm
IEVT40-5	PE tee 40 x 1¼" M x 40mm
IEVT50-6	PE tee 50 x 1½" M x 50mm
IEVT63-7	PE tee 63 x 2" M x 63mm

PE reducing tees



Code	Description
IEVR2520	PE reducing tee 25/20/25mm
IEVR3225	PE reducing tee 32/25/32mm
IEVR4032	PE reducing tee 40/32/40mm
IEVR5040	PE reducing tee 50/40/50mm
IEVR6350	PE reducing tee 65/50/63mm
IEVR7563	PE reducing tee 75/63/75mm

Plastic saddles



Plastic saddles with a female BSP thread. Ideal for many uses such as mounting sprinklers straight onto lateral lines.

Code	Description
IS20-2	PE saddle 20mm x 1/2" F
IS25-2	PE saddle 25mm x 1/2" F
IS25-3	PE saddle 25mm x 3/4" F
IS32-2	PE saddle 32mm x 1/2" F
IS32-3	PE saddle 32mm x 3/4" F
IS32-4	PE saddle 32mm x 1" F
IS40-3	PE saddle 40mm x 3/4" F
IS40-4	PE saddle 40mm x 1" F
IS50-3	PE saddle 50mm x 3/4" F
IS50-4	PE saddle 50mm x 1" F
IS63-3	PE saddle 63mm x 3/4" F
IS63-4	PE saddle 63mm x 1" F
IS63-5	PE saddle 63mm x 1 1/4" F
IS63-6	PE saddle 63mm x 1 1/2" F

PE quick coupling valve



Self sealing coupling for quick connections.

Code	Description
IVD	PE complete coupling unit
IVDC	PE coupler
IVDV	PE coupling valve only

PE Tube Barbed Fittings

PE tube barbed fittings are sized according to the outside diameter of the standard LDPE tube they fit.



Code	Description
IBC16	Barbed connectors 16 x 16mm
IBC20	Barbed connectors 20 x 20mm
IBC25	Barbed connectors 25 x 25mm
IBC32	Barbed connectors 32 x 32mm

Barbed adaptors



Female and male barbed connectors

Code	Description
IBCF16-3	Barbed adaptor 16mm x 3/4" F
IBCF20-3	Barbed adaptor 20mm x 3/4" F
IBCF25-3	Barbed adaptor 25mm x 3/4" F
IBCM16-2	Barbed adaptor 16mm x 1/2" M
IBCM16-3	Barbed adaptor 16mm x 3/4" M
IBCM20-2	Barbed adaptor 20mm x 1/2" M
IBCM20-3	Barbed adaptor 20mm x 3/4" M
IBCM25-3	Barbed adaptor 25mm x 3/4" M
IBCM25-4	Barbed adaptor 25mm x 2" M
IBCM32-4	Barbed adaptor 32mm x 1" M

Barbed elbows



Code	Description
IBE16	Barbed elbow 16 x 16mm
IBE20	Barbed elbow 20 x 20mm
IBE25	Barbed elbow 25 x 25mm
IBE32	Barbed elbow 32 x 32mm

Barbed take-offs



Code	Description
IBGT16	Grommet take-off 16mm
IBGT20	Grommet take-off 20mm
IBGTS16	Strap take-off 16mm
IBGTG	Grommet only

Barbed tees



Code	Description
IBT16	Barbed tee 16 x 16 x 16mm
IBT20	Barbed tee 20 x 20 x 20mm
IBT25	Barbed tee 25 x 25 x 25mm
IBT32	Barbed tee 32 x 32 x 32mm
IBTR2016	Barbed tee 20 x 16 x 20mm
IBTR2516	Barbed tee 25 x 16 x 25mm
IBTR2520	Barbed tee 25 x 20 x 25mm

Barbed tees 90° male



Code	Description
IBTT16-2	Barbed tee 16mm x 1/2" M x 16
IBTT16-3	Barbed tee 16mm x 3/4" M x 16
IBTT20-3	Barbed tee 20mm x 3/4" M x 20
IBTT25-2	Barbed tee 25mm x 1/2" M x 25
IBTT25-3	Barbed tee 25mm x 3/4" M x 25
IBTT25-4	Barbed tee 25mm x 1" M x 25
IBTT32-4	Barbed tee 32mm x 1" M x 32

Barbed in-line valves



A useful valve for isolating individual drip lines.

Code	Description
IBV16	Barbed in-line valve 16mm
IBV20	Barbed in-line valve 20mm
IBV25	Barbed in-line valve 25mm

Barbed plugs



Code	Description
IBP16	Barbed plug 16mm
IBP20	Barbed plug 20mm

Polypropylene Fittings

Useful conversion components. Various other components available.

Polypropylene sockets - female



Code	Description
IOS2	PP socket 1/2"
IOS3	PP socket 3/4"
IOS4	PP socket 1"
IOS5	PP socket 1 1/4"
IOS6	PP socket 1 1/2"
IOS7	PP socket 2"

Polypropylene reducing sockets - female



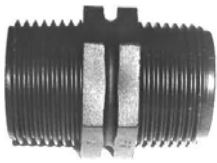
Code	Description
IOSR3-2	PP reducing socket 3/4" x 1/2"
IOSR4-2	PP reducing socket 1" x 1/2"
IOSR4-3	PP reducing socket 1" x 3/4"
IOSR5-4	PP reducing socket 1 1/4" x 1"
IOSR6-4	PP reducing socket 1 1/2" x 1"
IOSR6-5	PP reducing socket 1 1/2" x 1 1/4"
IOSR7-3	PP reducing socket 2" x 3/4"
IOSR7-4	PP reducing socket 2" x 1"
IOSR7-6	PP reducing socket 2" x 1 1/2"

Polypropylene tees - female



Code	Description
IOT2	PP tee 1/2"
IOT3	PP tee 3/4"
IOT4	PP tee 1"
IOT5	PP tee 1 1/4"
IOT6	PP tee 1 1/2"
IOT7	PP tee 2"

Polypropylene nipples - male



Code	Description
ION2	PP nipple 1/2"
ION3	PP nipple 3/4"
ION4	PP nipple 1"
ION5	PP nipple 1 1/4"
ION6	PP nipple 1 1/2"
ION7	PP nipple 2"

Polypropylene reducing nipple - male



Code	Description
IONR3-2	PP reducing nipple 3/4" x 1/2"
IONR4-2	PP reducing nipple 1" x 1/2"
IONR4-3	PP reducing nipple 1" x 3/4"
IONR5-3	PP reducing nipple 1 1/4" x 3/4"
IONR5-4	PP reducing nipple 1 1/4" x 1"
IONR6-4	PP reducing nipple 1 1/2" x 1"
IONR6-5	PP reducing nipple 1 1/2" x 1 1/4"
IONR7-4	PP reducing nipple 2" x 1"
IONR7-5	PP reducing nipple 2" x 1 1/4"
IONR7-6	PP reducing nipple 2" x 1 1/2"

Polypropylene reducing bush – female/male



Code	Description
IOB3-2	PP reducing bush 3/4" M x 1/2" F
IOB4-2	PP reducing bush 1" M x 1/2" F
IOB4-3	PP reducing bush 1" M x 3/4" F
IOB5-2	PP reducing bush 1 1/4" M x 1/2" F
IOB5-3	PP reducing bush 1 1/4" M x 3/4" F
IOB5-4	PP reducing bush 1 1/4" M x 1" F
IOB6-2	PP reducing bush 1 1/2" M x 1/2" F
IOB6-3	PP reducing bush 1 1/2" M x 3/4" F
IOB6-4	PP reducing bush 1 1/2" M x 1" F
IOB6-5	PP reducing bush 1 1/2" M x 1 1/4" F
IOB7-2	PP reducing bush 2" M x 1/2" F
IOB7-3	PP reducing bush 2" M x 3/4" F
IOB7-4	PP reducing bush 2" M x 1" F
IOB7-5	PP reducing bush 2" M x 1 1/4" F
IOB7-6	PP reducing bush 2" M x 1 1/2" F

Polypropylene screw cap



A screw cap that can be used with barbed male adaptors to make an endset.

Code	Description
IBFS-2	PP screw cap 1/2"
IBFS-3	PP screw cap 3/4"
IBFS-4	PP screw cap 1"
IBFS-5	PP screw cap 1 1/4"
IBFS-6	PP screw cap 1 1/2"
IBFS-7	PP screw cap 2"

Capillary Drip Lead

Capillary drip lead

Our most popular drip lead. No dripper required. Output regulated by bore or capillary tube in litres/hour @ 0.5 bar.



Code	Description
IDL1	85cm capillary leads 1 l/h
IDL2	85cm capillary leads 2 l/h
IDL3	85cm capillary lead 3 l/h
IDL4	85cm capillary leads 4 l/h
IDSS	Spike stakes, black
IDLPC	Capillary tube hole punch plastic
IDLPCM	Capillary tube hole punch metal

Drippers

Netafim CNL 4 way drippers

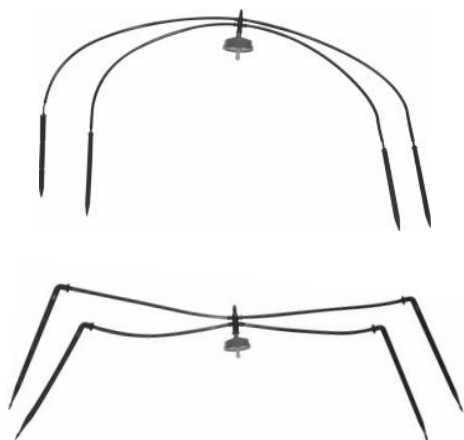


The CNL (compensating non-leakage nozzle) consists of a pressure compensating anti-drip device, fitted directly into 20 or 25mm PE tube for use with manifold sets – see next page.

Code	Description
IDLNC	CNL dripper 2 litre/hr
IDLNC4	CNL dripper 4 litre/hr
IDLNC8	CNL dripper 8 litre/hr

Manifold sets

The CNL set comprises of a nozzle, manifold with 4 leads and arrow stakes attached. This allows 4 plants to be irrigated by one CNL dripper, reducing costs. When the pressure drops below 1.5m, the dripper closes.



Input pressure compensating range: 10 – 40m
 Anti-drip closing pressure: 1.5m
 CNL output: 8ltr/hour
 Arrow stake output: 2ltr/hour
 Other flow rates on request

Code	Description
IDLNCS	CNL set no dripper 4 stakes
IDLNCSS	CNL set no dripper 4 S stakes
IDLNCSD	CNL set – dripper + 4 stakes
IDLNCSDS	CNL set – dripper + 4 S stakes
IDSA	Arrow labyrinth stake
IDSAS	Arrow labyrinth S stake
IDLNCM	CNL manifold

Netafilm PCJ CNL drippers



Pressure compensating dripper which give uniform output and do not leak after use. Very useful on sloping sites and very long lateral lines. Barbed to fit directly onto the lateral line.

Code	Description
IDLNP2	PCJCNL dripper 2 ltr
IDLNP3	PCJCNL dripper 3 ltr
IDLNP4	PCJCNL dripper 4 ltr

PCJ CNL sets



PCJ set comes with dripper, 80cm lead and a choice of Arrow/Arrow S drippers or Prevo stakes.

Code	Description
IDLNPSA2	PCJ Arrow dripper set 2 ltr
IDLNPSA3	PCJ Arrow dripper set 3 ltr
IDLNPSA4	PCJ Arrow dripper set 4 ltr
IDLNPSAS2	PCJ Arrow S dripper set 2 ltr
IDLNPSAS3	PCJ Arrow S dripper set 3 ltr
IDLNPSAS4	PCJ Arrow S dripper set 4 ltr
IDLNPSP2	PCJ set Prevo stake 2 ltr
IDLNPSP3	PCJ set Prevo stake 3 ltr
IDLNPSP4	PCJ set Prevo stake 4 ltr

Pot dripper (unregulated)



Threaded to screw into 3/5mm lead.

Code	Description
IDLNN1	Plant pot dripper 1 ltr/hr
IDLNN2	Plant pot dripper 2 ltr/hr
IDLNN4	Plant pot dripper 4 ltr/hr

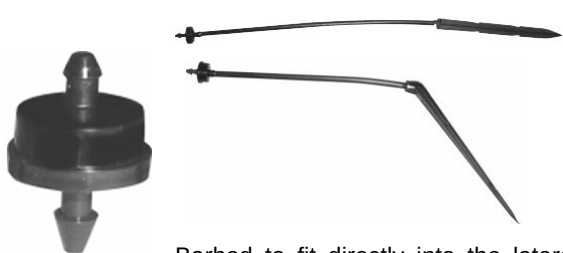
Netafilm button dripper



Barbed to fit directly into the lateral line.

Code	Description
IDLNB1	Button dripper 1 ltr/hr
IDLNB2	Button dripper 2 ltr/hr
IDLNB4	Button dripper 4 ltr/hr

Woodpecker dripper sets



Barbed to fit directly into the lateral line.
Woodpecker set comes with dripper, 80cm lead and straight or 45° stake.

Code	Description
IDLNW1	Woodpecker dripper 1ltr / hr
IDLNW2	Woodpecker dripper 2ltr / hr
IDLNW4	Woodpecker dripper 4ltr / hr
IDLNW8	Woodpecker dripper 8ltr / hr
IDLNWS2	Woodpecker dripper set 2 ltr
IDLNWS4	Woodpecker dripper set 4 ltr
IDLNWSS2	Woodpecker S dripper set 2 ltr
IDLNWSS4	Woodpecker S dripper set 4 ltr

Drip irrigation – accessories



Code	Description
IET05-2	Drip lead 5 x 3mm 200 metres
IDL5	Drip lead 5 x 3mm 80cm
IDN	5mm nipple
IDNT	5mm barbed tee
IDNT-1	5mm barb/threaded tee
IDNT-2	5mm threaded tee
IDLD	Pot pecker blanking cap
IDLL5	5mm repair plug

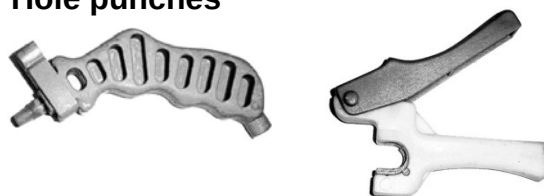
**CALL TODAY FOR ADVICE ON THE BEST
DRIPPER FOR YOUR APPLICATION**

Drip irrigation - stakes



Code	Description
IDSX18	18 l/h spray stake
IDSA	Arrow stake
IDSAS	Arrow stake S
IDSP	Prevo stake
IDSPS	Prevo S stake
IDSC	Clamp stake 5/7mm

Hole punches



3mm punch for barbed nozzles and nipples.

Code	Description
IDL P	PE hole punch 3mm
IDL PQ20-3	Quick cut punch 3mm 16/20

Drip system valve



Code	Description
IDV	Drip system valve 3/4" F x 3/4" M

**DRIP IRRIGATION CAN BE SUPPLIED READY
FITTED ON ROLLS AT ALMOST ANY SPACING**

Dripperlines

UNIRAM dripperline 20mm

A non-leakage, pressure compensated dripperline for surface and sub-surface irrigation. Uniram will maintain a uniform flow rate with pressure from 10 to 40m.

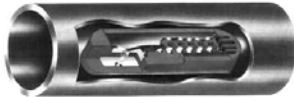
Output 2.3 l/hr per nozzle, equivalent to 9.2 l/m/hour.

Tube diameter: 20mm. Roll length: 300m

Ideal for alstromeria growers.

Code	Description
IHLU25	RAM dripperline 25cm

RAM dripperline 17mm



Pressure compensated dripperline – gives a constant output over a wide pressure range to ensure even output over long run lengths and sloping ground.

Output per dripper: 1.6 or 2.3 litres/hour

Pressure range: 5-40m

Tube diameter: 17mm. Roll length: 400m

Code	Description
IHLR30-B	RAM dripperline 1.6 l/h 30cm
IHLR40-B	RAM dripperline 1.6 l/h 40cm
IHLR50-B	RAM dripperline 1.6 l/h 50cm
IHLR60-B	RAM dripperline 1.6 l/h 60cm

Streamline 80 dripperline 16mm



Thin walled dripperline with integral injection moulded drippers. Resistant to blocking with excellent uniformity.

Output per dripper: 1.05 l/h

Maximum operating pressure: 8.5m

Tube diameter: 16mm. Roll length: 1000m

Code	Description
IHLS10	Streamline dripperline 80 – 10
IHLS15	Streamline dripperline 80 – 15
IHLS20	Streamline dripperline 80 – 20
IHLS30	Streamline dripperline 80 – 30

Prices for 2.3 litres/hour on request.

Dripnet PC 16mm



On-surface or sub-surface tape for use in row crops.

Superior turbulent flow regime. Wide filtration area, High resistance to clogging. 20 & 30cm distance between drippers. Output per dripper: 0.6 or 1.0 l/hr.

Pressure range 4-25m.

20cm comes in 900m rolls. 30cm comes in 1000m rolls.

Code	Description
IHLI20-A	Dripnet 1 l/hr 20cm spacing
IHLI20-B	Dripnet 0.6 l/hr 20cm spacing
IHLI30-A	Dripnet 1 l/hr 30cm spacing
IHLI30-B	Dripnet 0.6 l/hr 30cm spacing

Dripnet / Streamline 16mm connectors

Code	Description
IHLT-1	16mm PE to tape
IHLT-2	Tape to tape 16mm
IHLT-3	Tee-tape to 3/4" F to tape
IHLT-4	3/4" BSP to tape
IHLT-5	Grommet to tape

T Tape dripperline 9.5mm



A 9.5mm diameter drip tape ideal for glasshouses, nurseries and row crop installations with shorter runs. The tape has emitters at 15cm and will give an output of 0.68 l/hr per metre. The uniformity over a 60m run is 95%.

T Tape fittings on request.

Code	Description
IHLA	9.5mm dia. 1675m roll

Layflat

Polythene Layflat

Popular black polythene tube with holes 5mm from the side spaced at 20cm. Output 2.2 litres/hour at 4 psi.

Code	Description
IHLD-2	DKB2 layflat 20cm x 500m

Porous Pipe

Porous pipe



A rubber porous pipe for various irrigation purposes. It should be used at a pressure of between 4-12 psi. The maximum run length is 50 metres and the output is 4 litres / hour / metre. The pipe can be used for both surface and sub surface irrigation and to water capillary matting on benches.

Connect with 16mm barbed fittings.

Code	Description
IHLP-B	Porous pipe 16mm x 50m
IHLP-1	Porous pipe 16mm x 100m

Sprinklers

There are very many types of sprinklers suitable for a wide range of tasks. The sprinklers we use most often are listed below. Other types of sprinkler can be supplied on request.

Part Circle Sprinklers

Part circle plastic sprinklers

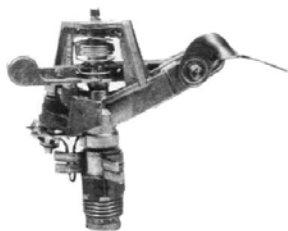


Part circle plastic sprinklers with ratchet fingertip adjustment for watering full circle or any part of it. Baffle deflector adjustable by a regulator nut allowing change to both height and range of jet. Diffuser pin adjusts from heavy to fine stream.

Nozzle size in mm	Pressure in bar	Output in m ³ / hr	Diameter coverage
2.8	1.5	0.38	21
	2.0	0.45	22
	3.0	0.55	23
	4.0	0.63	24
4.0	1.0	0.60	21
	2.0	0.85	24
	3.0	1.03	26
	4.0	1.18	26

Code	Description
ITCP	Part circle ½" plastic 2.8mm
ITCP-2	Part circle ½" plastic 4mm

Part circle metal sprinkler



Part circle metal sprinklers with fingertip adjustment for watering full 26m circle or any part of it. Baffle deflector controls height of jet and diameter or circle. Diffuser pin adjusts from heavy to fine stream.

Nozzle size in mm	Pressure in bar	Output in m ³ / hr	Diameter coverage
4.0	1.5	0.73	23
	2.0	0.85	25
	3.0	1.03	27
	4.0	1.18	28

Code	Description
ITCB	Part circle ½" M brass 4mm

Whisper sprinkler



Compact gear drive. Full and part circle sprinkler with an impact plastic construction and a protected mechanism and fine filter.

Radius controlled by deflector 5-11.5m. Spacing between sprinklers up to 12.0m. Complete with 4.0mm standard nozzle.

Nozzle size in mm	Pressure in bar	Output in m ³ / hr	Diameter coverage
4.0	1.5	0.73	19.5
	2.0	0.85	21.0
	3.0	1.03	22.0
	4.0	1.18	23.0

Code	Description
ITW2	Whisper sprinkler ½" M

Full Circle Sprinklers

Heavy duty and frost protection sprinkler



Heavy duty sprinkler giving and increased diameter of coverage at medium and high pressures. Ideal for all field crops, vegetables and overhead irrigation of orchards.

Equipped with a special plastic hood to protect spring for rough handling conditions and for anti-frost irrigation.

Nozzle size in mm	Pressure in bar	Output in m ³ / hr	Diameter coverage
4.9	3.0	1.58	32
	4.0	1.81	34
	5.0	2.02	34

Code	Description
ITH3	Heavy duty sprinkler ¾" F

VARIOUS SPRINKLER STANDS ON PAGE 30

Rotoframe sprinklers



Unique lower pressure sprinkler featuring butterfly type rotating spinner and rotary frame which provides even water distribution.

Nozzle size in mm	Pressure in bar	Output in m ³ / hr	Diameter coverage
4.5	0.5	0.48	8.1
	1.0	0.66	11.3
	1.5	0.83	13.8
	2.0	0.95	15.9

Code	Description
ITR	Rotoframe ½" F
ITR3	Rotoframe ¾" F

Naan 501 U sprinklers



Extra range, turbo hammer, low capacity sprinkler, with excellent water distribution. Ideal for vegetables, nurseries, parks and gardens. Turbo operation ensures uniformity of watered areas, the 501 U has very low precipitation rates and fine drops for sensible crop germination.

See page 30 for field stands.

Nozzle size in mm	Pressure in bar	Output in m ³ / hr	Diameter coverage
1.8	1.5	0.138	12.0
	2.0	0.160	13.0
	3.0	0.196	14.0
2.0	1.5	0.170	14.5
	2.0	0.195	15.0
	4.0	0.236	15.0

Code	Description
ITNT1.8	Naan 501 U sprinkler 1.8
ITNT2	Naan 501 U sprinkler 2.0

VARIOUS SPRINKLER STANDS ON PAGE 30

Popstar plus sprinkler



Part/full circle pop-up with arc memory. A water lubricated turbo gear drive sprinkler with an adjustable arc from 40° - 360°. Special nozzle shape creates close to sprinkler watering up to 30% reduced radius by diffuser – screw adjustment. Durable plastic and stainless steel materials. Complete with No 2, 3, 4, 6, 8 & 9 nozzle.

Nozzle size in mm	Pressure in bar	Output in m ³ / hr	Diameter coverage	
			Min	Max
2.5	2.0	5.17	10	20
	3.0	6.50	11	21
	4.0	7.50	12	21
2.0	2.0	8.67	15	22
	3.0	11.17	16	23
	4.0	13.00	16	23
4.0	2.0	14.17	14	22
	3.0	18.33	17	24
	4.0	21.17	18	25

Code	Description
ITQP3	Popstar plus sprinkler ¾"

MP 2000 rotator



A water conservation tool. Multi-trajectory rotating streams provide unmatched uniformity. Automatic matched precipitation. Low application rate reduces runoff on slopes and light soils.

0.35m³ / hr @ 3 bar.

Approx. Diameter 6.0m

Code	Description
ITDR2	MP2000 rotator 360°
ITDR2-P1	MP2000 rotator 90 - 210°
ITDR2-P2	MP2000 rotator 210 - 270°
ITDAA	MP Acme thread adaptor
ITDAB-2	MP Acme base ½"

Sprinkler Stands

Freestanding sprinkler stand



The freestander is made of galvanised steel. 1.0m high riser with a cross base allowing the stand pipe to be used on hard surfaces.

Code	Description
ITSF-2	Freestanding 1.0m stand ½" M
ITSF-3	Freestanding 1.0m stand ¾" M

Metal sled base



Made from coated steel complete with a 30cm riser. Supplied complete with a quick coupling to connect to any Geka type fitting.

ITSST12-3 comes with a T connection.

Code	Description
ITSS12-2	Metal sled base ½" M
ITSS12-3	Metal sled base ¾" M
ITSST12-2	Metal sled base ¾" with T

Field stands



Comes with 1m galv. rod. 8mm hose - ½" M top. 12mm hose - ½" F top.

Code	Description
ITSD2	Field stand ½" M x 1m
ITSDF2	Field stand ½" F x 1m

Valves

All valves are recommended for water use only.

PVC ball valves single union



Max. Pressure: 16 bar. Max temperature: 50°C.

Code	Description
IVB020	PVC valve 20mm glue
IVB025	PVC valve 25mm glue
IVB032	PVC valve 32mm glue
IVB040	PVC valve 40mm glue
IVB050	PVC valve 50mm glue
IVB063	PVC valve 63mm glue
IVBT-2	PVC valve ½" F threaded
IVBT-3	PVC valve ¾" F threaded
IVBT-4	PVC valve 1" F threaded
IVBT-5	PVC valve 1¼" F threaded
IVBT-6	PVC valve 1½" F threaded
IVBT-7	PVC valve 2" F threaded

PVC ball valve double union



Max. Pressure: 20-63mm – 16 bar; 75-110mm – 10bar.
Max temperature: 50°C.

Code	Description
IVBD020	PVC dbl union valve 20mm glue
IVBD025	PVC dbl union valve 25mm glue
IVBD032	PVC dbl union valve 32mm glue
IVBD040	PVC dbl union valve 40mm glue
IVBD050	PVC dbl union valve 50mm glue
IVBD063	PVC dbl union valve 63mm glue
IVBD075	PVC dbl union valve 75mm glue
IVBD090	PVC dbl union valve 90mm glue
IVBD110	PVC dbl union valve 110mm glue

PVC butterfly valves



A stonger valve for use with 75mm and large pipe sizes where a ball valve ie. higher pressure ratings in mains and headers, is often inadequate. Mounting kit with flanges included.

Max. Pressure: 10 bar

Code	Description
IVA075	PVC butterfly valve kit 75mm
IVA090	PVC butterfly valve kit 90mm
IVA110	PVC butterfly valve kit 110mm

Plated brass ball lever valves



Good quality medium duty ball valves.

Max pressure: 16 bar

Code	Description
IVL-2	Brass ball valve 1/2" F
IVL-3	Brass ball valve 3/4" F
IVL-4	Brass ball valve 1" F
IVL-5	Brass ball valve 1 1/4" F
IVL-6	Brass ball valve 1 1/2" F
IVL-7	Brass ball valve 2" F
IVL-9	Brass ball valve 3" F

Plastic frost resistant valve



Will not split if frozen – ideal for standpipes and other outside applications.

Max pressure; 16 bar

Min. Temperature: 20°C

Code	Description
IVR-3	Frost resistant ball valve 3/4"
IVR-4	Frost resistant ball valve 1"

Brass gate valve



Heavy duty model. Max. Pressure: 20 bar

Code	Description
IVG-2	Brass gate valve 1/4" F
IVG-3	Brass gate valve 3/4" F
IVG-4	Brass gate valve 1" F
IVG-5	Brass gate valve 1 1/4" F
IVG-6	Brass gate valve 1 1/2" F
IVG-7	Brass gate valve 2" F
IVG-9	Brass gate valve 3" F

Brass bib tap



Has to be used with the hose tail supplied.

Max. Pressure 15 bar.

Code	Description
IVT-2	Brass bib tap 1/2"
IVT-3	Brass bib tap 3/4"
IVTE	Brass back plate elbow 3/4"

Valve Boxes



Complete with covers

Code	Description
IVX-B	Circular box 10"
IVX-C	Standard rectangular box 12"
IVX-D	Jumbo box
IVX-CE	12" box extension
IVX-DE	Jumbo box extension

Valve Boxes

Vacuum breaker valve



Large air passage, high resistance to chemicals. Smooth, reliable operation.

Max. working pressure: 10 Atm.

Max. working temperature: 80°C

Code	Description
IVY2	Vacuum breaker valve ½" M

Air & vacuum release valve



The features of the vacuum breaker valve and the automatic air release valve are incorporated in one single valve body.

Max. working pressure: 10 Atm

Max. working temperature: 80°C

Code	Description
IVY7	Air & vacuum release valve 2"

Automatic air release valve



For the automatic release of entrapped air pockets from pressurised systems.

Max. working pressure: plastic – 10 Atm

Max. working pressure: metal 16 Atm

Max. working temperature: 80°C

Code	Description
IVYA4	Automatic air release 1" plastic
IVYAM4	Automatic air release 1" metal

Pressure relief valves



Adjustable from 2-9 bar. Up to 1¼" – Brass.
1½" – 3" – Bronze.

Code	Description
IVP-2	Pressure relief valve ½"
IVP-3	Pressure relief valve ¾"
IVP-4	Pressure relief valve 1"
IVP-5	Pressure relief valve 1¼"
IVP-6	Pressure relief valve 1½"
IVP-7	Pressure relief valve 2"
IVP-9	Pressure relief valve 3"

Non-Return Valves

PVC double union non-return valves



Code	Description
IVCI032	PVC non-return valve 32mm
IVCI040	PVC non-return valve 40mm
IVCI050	PVC non-return valve 50mm
IVCI063	PVC non-return valve 63mm
IVCI075	PVC non-return valve 75mm
IVCI090	PVC non-return valve 90mm

Brass check valves



Opening pressure 0.02bar. Max. pressure 16 bar.

Code	Description
IVC-2	Brass check valve ½" F
IVC-3	Brass check valve ¾" F
IVC-4	Brass check valve 1" F
IVC-5	Brass check valve 1¼" F
IVC-6	Brass check valve 1½" F
IVC-7	Brass check valve 2" F
IVC-9	Brass check valve 3" F

Brass foot valves

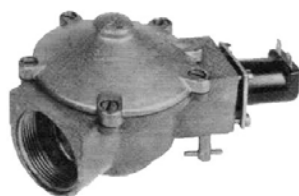


Complete with stainless steel strainer.

Code	Description
IVF-2	Brass foot valve ½" F
IVF-3	Brass foot valve ¾" F
IVF-4	Brass foot valve 1" F
IVF-5	Brass foot valve 1¼" F
IVF-6	Brass foot valve 1½" F
IVF-7	Brass foot valve 2" F
IVF-9	Brass foot valve 3" F

Solenoid Valves

Kentie brass solenoid valves



Code	Description
IWK-5A	Kentie 24 v AC 1¼" F
IWK-5D	Kentie 24 v DC 1¼" F
IWK-6A	Kentie 24 v AC 1½" F
IWK-6D	Kentie 24 v DC 1½" F

Kentie spares

A range of spares is available for both Kentie and Elmeco brass solenoid valves. Please call for details.

Code	Description
IWKD-5	Diaphragm 1¼"
IWKD-6	Diaphragm 1½"
IWKS-A	Kentie 24 v AC solenoid coil
IWKS-D	Kentie 24 v DC solenoid coil

Plastic Bermad solenoid valves



A range of 24 volt AC and DC solenoid valves which we have supplied for many years.

Normally closed design with low pressure loss. Slow opening and closing helps prevent water-hammer.

Flow control/manual shut-off and manual over-ride standard.

Minimum pressure 0.7 bar. Maximum pressure 10.0 bar.

Code	Description
IWP-4A	Solenoid valve AC 1" F
IWP-4D	Solenoid valve DC 1" F
IWP-6A	Solenoid valve AC 1½" F
IWP-6D	Solenoid valve DC 1½" F
IWP-7A	Solenoid valve AC 2" F
IWP-7D	Solenoid valve DC 2" F
IWPN-6A	Solenoid valve AC 1½" 90°
IWPD-4	Diaphragm for Bermad 1"
IWPD-6	Diaphragm for Bermad 1"
IWPS-A	Solenoid coil AC complete
IWPS-D	Solenoid coil DC complete

Cable Ties

Please ask for availability of other sizes.

Code	Description
ICS100-2.5	Cable tie 100 x 2.5mm black
ICS150-3.6	Cable tie 150 x 3.6mm black
ICS200-4.6	Cable tie 200 x 4.6mm black
ICS300-4.6	Cable tie 300 x 4.6mm black
ICS380-4.6	Cable tie 380 x 4.6mm black
ICS380-7.6	Cable tie 380 x 7.6mm black
ICS540-8.0	Cable tie 540 x 8.0mm black

Low voltage cable



Minimum order 100m. Size 0.8mm.

Code	Description
IC04-1	Cable 4 core x 100m
IC04-2	Cable 4 core x 250m
IC04-5	Cable 4 core x 500m
IC04-10	Cable 4 core x 1000m
IC06-1	Cable 6 core x 100m
IC06-2	Cable 6 core x 250m
IC06-5	Cable 6 core x 500m
IC06-10	Cable 6 core x 1000m
IC08-1	Cable 8 core x 100m
IC08-2	Cable 8 core x 250m
IC08-5	Cable 8 core x 500m
IC08-10	Cable 8 core x 1000m
IC10-1	Cable 10 core x 100m
IC10-2	Cable 10 core x 250m
IC10-5	Cable 10 core x 500m
IC10-10	Cable 10 core x 1000m
IC12-1	Cable 12 core x 100m
IC12-2	Cable 12 core x 250m
IC12-5	Cable 12 core x 500m
IC12-10	Cable 12 core x 1000m
IC14-1	Cable 14 core x 100m
IC14-2	Cable 14 core x 250m
IC14-5	Cable 14 core x 500m
IC14-10	Cable 14 core x 1000m
IC16-1	Cable 16 core x 100m
IC16-2	Cable 16 core x 250m
IC16-5	Cable 16 core x 500m
IC20-1	Cable 20 core x 100m
IC20-2	Cable 20 core x 250m
IC20-5	Cable 20 core x 500m
IC24-1	Cable 24 core x 100m
IC24-2	Cable 24 core x 250m
IC24-5	Cable 24 core x 500m

Irrigation Control

Heron valve controllers



MCI-96 models are upgradable to a maximum of 96. 24 volt valves. A comprehensive range of features to give complete control of your irrigation. AC output standard. Please ask for further details.

*made to order

Code	Description
IXM-08A	MCI-8 AC 8 valves
IXM-08D	MCI-8 DC 8 valves
IXM-16	MCI-96 AC 16 valves
IXM-16D	MCI-96 DC 16 valves
IXM-24	MCI-96 AC 24 valves
IXM-32	MCI-96 AC 32 valves
IXM-40	MCI-96 AC 40 valves
IXM-48	MCI-96 AC 48 valves
IXM-64	MCI-96 AC 64 valves

Heron accessories

Interface box may be required – PLEASE CALL

Code	Description
IXMP-8	Expansion card MCI-96 AC 8
IXMP-16	Expansion card AC 16
IXMSG	Rain gauge
IXMSL	Light sensor

Galcon AC 24 controller

Features: 8,12,16,20 and 24 stations. Single housing. Modular expansion.

Weekly program. 4 start times per daily program.

Cyclic program – 1 to 30 days.

Programmable "rain off". Master valve/pump start.

Programmable fertiliser valve.

Programmable lighting control. Built in transformer.

Code	Description
IXA24-8	Controller AC 24 – 8 station
IXA24-12	Controller AC 24 – 12 station
IXA24-16	Controller AC 24 – 16 station
IXA24-20	Controller AC 24 – 20 station
IXA24-24	Controller AC 24 – 24 station
IXAM24	4 station module – AC 24

PLEASE CALL FOR FURTHER INFORMATION

Galcon AC6 & AC6S controllers



An ideal watering computer for up to 6 valves, allowing the individual programming of each valve up to 4 start times per day on a weekly or cyclic programme.

Run times from 1 min to 12 hours.

Watering schedule 7 day calendar or interval of 1 to 30 days.

Code	Description
IXA6	Galcon AC-6 controller
IXA6S	Galcon AC-6S controller
IXAT	Galcon 240-24v transformer

Galconette Jewel controller



Features:

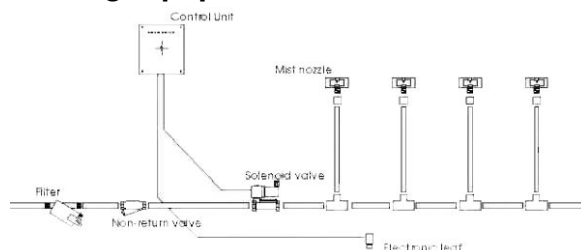
- easy to install and simple to use
- works with one 9v battery
- watering time: from one minute to 12 hours
- up to four start times per day
- working pressure from 1 to 10 bar
- 1" BSP connections
- Flow rate up to 9m³/hr
- Completely waterproof

Code	Description
IXGJ	Galconette Jewel

PLEASE CALL FOR FURTHER INFORMATION

Misting Equipment

Misting equipment



Code	Description
IMCL	Electronic leaf 2.5m lead
IMCU	Electronic control unit
IMCVB-2	24 v AC valve brass 1/2"
IMCW	Weaner & crossover unit

Fertigation

Heron pH / EC dosing units



In-line and mix tank systems. Acid or fertiliser only or acid and fertiliser combined. Low or high flow rates supported. Accurate control of pH down to pH 5.5. Single or multiple stock tanks. Multiple automatic alarm conditions.

Can be operated as stand alone systems or connected to an irrigation controller, which can then give up to 16 different fertiliser recipes assigned to different irrigation programmes. Please call for information and prices.

Aqua-Hort

- Kills Pythium and Phytophthora
- Prevents Phytophthora ramorum – 'sudden oak death'
- Increases calcium intake
- Means whiter and stronger roots

Aqua-Hort is a unit for applying copper nutrition by means of electrolysis. Free copper ions are released in the water, which is not possible by adding normal copper chemicals. Aqua-Hort is installed in more than 200 nurseries worldwide. They all report better plant roots as a result.

Description

Aqua-Hort Mini 5m³/h
Aqua-Hort 75 10m³/h
Aqua-Hort 90 30m³/h

Dosatron fee units



Non-electric proportional fertiliser dispenser. The dose of fertiliser injected remains constant as long as flow and pressure remain within the specified limits. A range of accessories is available including pressure regulator, in-line filters, trolley and 25 litre barrel. Please call for technical information.

	Inlet	Outlet	Flow rate m ³ / hr	Dosage in %
DI-16	¾" M	¾" M	0.01-2.5	0.2-1.6
DSA45, 1-5	1¼" M	1¼" M	0.1 – 4.5	0.2-1.5
D8R	50mm PE		0.5-8.0	0.2-2.0
D20S	63mm PE		1.0-20.0	0.2-2.0
D30S	2" M	2" F	10.0-30.0	0.25-1.25

Code	Description
IXD6	Dosatron DSA45, 1.5
IXD3	Dosatron D8R
IXD4	Dosatron D20S
IXD5	Dosatron D30S

Arad water meters



Meters to measure your water usage. Also available with electrical output. Max temp. 50°C. Max pressure 16 bar.

Code	Description
IXW-3	¾" M meter 2.5 – 5 cu m/h
IXW-4	1" M meter 5-10 cu m/h
IXW-5	1¼" M meter 6-12 cu m/h
IXW-6	1½" M meter 10-20 cu m/h
IXW-7	2" M meter 15-30 cu m/h

Pumps

A wide range of pumps are required in the irrigation of plants on nurseries. These vary from larger dedicated multistage pumps to pressurised sets for smaller systems. Specialist items such as dirty water pumps are also available. Please call for technical information or to discuss your requirements.

We can also supply the Grundfos CR range of multistage pumps.

Espa Pumps

Small selection of range. Call for further information and prices.

Pressure set



Complete with 24 litre pressure vessel, pressure switch, auto/start, pressure gauge. Max. Pressure 5 bar.

Also available with the Tecno pump range.

Description	Single Phase			
	m ³ @ 3 bar	inlet/ outlet BSPF	kW	amps
Delta 505 M	0.5	1"	0.37	2.8
Delta 755 M	1.0	1"	0.50	3.4
Delta 1005 M	2.0	1"	0.75	4.8
Delta 1755 M	3.7	1"	0.75	5.5

Code	Description
IGEDP505-24-1	Delta 505 1 phase p.set
IGEDP755-24-1	Delta 755 1 phase p.set
IGEDP1005-24-1	Delta 1005 1 phase p.set
IGEDP1755-24-1	Delta 1755 1 phase p.set

Submersible stainless steel pumps



Single phase motor with built in thermal protection. Complete with 15cm of power cable and level switch.

Description	Single Phase			
	m ³ @ 3 bar	inlet/ outlet BSPF	kW	amps
Acuaria 7.4MA	2.0	1"	0.5	3.6
Acuaria 7.6MA	2.7	1"	0.9	5.0
Acuaria 17.5MA	4.2	1"	0.9	7.4

Code	Description
IGEA07.4-1	Acuaria 7.4MA 1 phase
IGEA07.6-1	Acuaria 7.6MA 1 phase
IGEA17.5-1	Acuaria 17.5MA 1 phase

Vertical pumps – Press-Line VE



Multistage pumps with stainless steel impellers

Description	Single Phase		
	m ³ @ 3 bar	kW	amps
VE94 / 4M	7.5	1.1	5.0
VE94 / 5M	10.0	1.5	6.0
VE94 / 6M	11.5	1.5	6.7
Three Phase			
VE94 / 4T	7.5	1.1	2.8
VE94 / 5T	10.0	1.5	3.5
VE94 / 6T	11.5	1.5	3.9

Code	Description
IGEV94-4-1	VE94 / 4M 1 phase
IGEV94-5-1	VE94 / 5M 1 phase
IGEV94-6-1	VE94 / 6M 1 phase
IGEV94-4-3	VE94 / 4T 3 phase
IGEV94-5-3	VE94 / 5T 3 phase
IGEV94-6-3	VE94 / 6T 3 phase

Description	Three Phase		
	m ³ @ 3 bar	kW	amps
VE121 / 2T	16.0	3.0	6.0
VE121 / 3T	24.0	4.0	8.3
VE121 / 4T	28.0	5.5	1.1

Code	Description
IGEV121-2-3	VE121 / 2T 3 phase
IGEV121-3-3	VE121 / 3T 3 phase
IGEV121-4-3	VE121 / 4T 3 phase

Horizontal pumps



Delta self priming pump with glass reinforced plastic impellers for smaller applications. Up to 2m³/hr.
Tecnoself multistage horizontal pump with stainless steel impellers – ideal for smaller nurseries. Also available with self priming device.

Inlet / outlet BSPF: 1"

Description	Single Phase		
	m ³ @ 3 bar	kW	amps
Delta 505M	0.5	0.37	2.8
Delta 755M	1.0	0.50	3.4
Delta 1005M	2.0	0.75	4.8
Delta 1755M	3.7	0.75	5.5
Tecnoself 25/4M	5.0	0.92	4.3
Tecnoself 25/5M	6.0	1.10	5.2
Three Phase			
Tecnoself 25/4T	5.0	0.92	2.5
Tecnoself 25/5T	6.0	1.1	3.0

Code	Description
IGED505-1	Delta 500M 1 phase
IGED755-1	Delta 755M 1 phase
IGED1005-1	Delta 1005M 1 phase
IGED1755-1	Delta 1755M 1 phase
IGET25-4-1	Tecnoself 25/4M 1 phase
IGET25-5-1	Tecnoself 25/5M 1 phase
IGET25-4-3	Tecnoself 25/4T 3 phase
IGET25-5-3	Tecnoself 25/5T 3 phase

Dirty water pumps – submersible



Espa Drainex submersible pumps for dirty water and reservoirs. Complete with float switch.

Up to 25m ³ /hr	Single Phase		
Description	Outlet BSPF	kW	amps
Drainex 200 MA	2"	1.1	5.2
Drainex 201 MA	2"	1.1	6.2

Code	Description
IGER200-1	Drainex 200 MA
IGER201-1	Drainex 201 MA

Lowara Pumps

Submersible stainless steel pumps



Ideal for clean water applications where the pump can sit in the water source and be connected directly into the irrigation system.

Single phase pumps complete with floatswitch.

Description	m ³ /hr @ 3 bar	Single Phase		
		Outlet BSPF	kW	amps
2SC5	3.0	1½"	0.93	4.37
2SC7	4.3	1½"	1.15	5.19

Code	Description
IGLS205F	Lowara 2SC5 1ph
IGLS207F	Lowara 2SC7 1ph

Vertical pumps



Reliable multistage pumps with stainless steel impellers and diffusers. Available with several part configuration to enable direct replacement of existing Grundfos and other types.

Description	m ³ @ 4 bar	Three Phase		
		Inlet/outlet BSPF	kW	amps
SV804F22T	10.0	1½"	2.2	8.71
SV805F22T	12.0	1½"	2.2	8.71
SV1604F40T	21.0	2"	4	8.14

Code	Description
IGLV804F-3	Lowara SV804F22T 3ph
IGLV805F-3	Lowara SV805F22T 3ph
IGLV1604F-3	Lowara SV1604F40T 3ph

Horizontal self-priming pumps



Lowara BG series of self-priming pumps with stainless steel housing and impeller for water transfer duties such as reservoir to holding tank.

Description	m ³ @ 3 bar	Three Phase		
		Inlet/outlet BSPF	kW	amps
BGM5	1.5	1½" / 1"	0.91	4.33
BGM7	2.5	1½" / 1"	1.11	5.00

Code	Description
IGLB5	Lowara BGM 5/A 1ph
IGLB7	Lowara BGM 7/A 1ph

Pump float switches and starters

Automatic pump starters available on request. Please specify overload size when ordering.

Code	Description
IGF10	Sealed switch with 10m cable
ERS20	On/Off isolator, IP65 20 amp
ERS35	On/Off isolator, IP65 35 amp
ERS63	On/Off isolator, IP65 63 amp
ECPS25-1	Pump starter, IP65 1 ph 25 amp
ECPS25-3	Pump starter, IP65 3 ph 25 amp
ECPS35-1	Pump starter, IP65 1 ph 35 amp
ECPS35-3	Pump starter, IP65 3 ph 35 amp

Pump speed control - Hydrovar

A more sophisticated method of balancing pump output to demand. The systems use a frequency inverter to adjust the pump speed and therefore the output. Call for details. Normally set to maintain the pressure whatever the output volume.

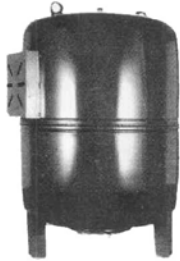
A very efficient method of pump control. Particularly suited to situations where there are differing demands on the system.

**OTHER PUMPS AND ACCESSORIES ARE
AVAILABLE ON REQUEST**

Pressure Vessels

Pressure vessels in tandem with pressure stats can be fitted to the discharge side of the pump in order to permanently pressurise the irrigation system. This gives automatic pump starting when a valve opens. The pressure drops, the stat senses the drop and initiates the pump. Ideal for hand watering systems.

Replaceable membranes. Maximum pressure 10 bar.



Code	Description
IRVH24	Horiz. Pressure vessel 24ltr
IRS	Danfoss pressure switch RT116
IRV100	Vertical pressure vessel 100ltr
IRV200	Vertical pressure vessel 200ltr
IRV300	Vertical pressure vessel 300ltr
IRV500	Vertical pressure vessel 500ltr

Water Storage



Water tank kits – Greenseal liner EPDM0.75m

Galvanised water tanks, supplied with all necessary bolts, fixings and Greenseal liner required to complete. All you need is a suitable concrete slab to stand it on and to select the take-off unit you need. Tank volumes are approximate. Tank covers and connections extra.

Code	Description
IZGG09-2	9' x 5' – 1,990 gallons
IZGG09-3	9' x 7'6 – 2,980 gallons
IZGG12-2	12' x 5' – 3,530 gallons
IZGG12-3	12' x 7'6 – 5,300 gallons
IZGG15-2	15' x 5' – 5,520 gallons
IZGG15-3	15' x 7'6 – 8,280 gallons
IZGG18-2	18' x 5' – 7,950 gallons
IZGG18-3	18' x 7'6 – 11,930 gallons
IZGG21-2	21'5 x 5' – 10,700 gallons
IZGG21-3	21' x 7'6 – 16,050 gallons
IZGG24-2	24' x 5' – 14,000 gallons
IZGG24-3	24' x 7'6 – 21,000 gallons
IZGG30-2	30' x 5' – 23,000 gallons
IZGG30-3	30' x 7'6 – 30,788 gallons
IZGG36-2	36' x 5' – 30,500 gallons
IZGG36-3	36' x 7'6 – 45,750 gallons

Water tank kits – PVC liner

Galvanised water tanks, supplied with all necessary bolts, fixings and PVC liner required to complete. All you need is a suitable concrete slab to stand it on and to select the take-off unit you need. Tank volumes are approximate.

Code	Description
IZGP09-2	9' x 5' – 1,990 gallons
IZGP09-3	9' x 7'6 – 2,980 gallons
IZGP12-2	12' x 5' – 3,530 gallons
IZGP12-3	12' x 7'6 – 5,300 gallons
IZGP15-2	15' x 5' – 5,520 gallons
IZGP15-3	15' x 7'6 – 8,280 gallons
IZGP18-2	18' x 5' – 7,950 gallons
IZGP18-3	18' x 7'6 – 11,930 gallons
IZGP21-2	21' x 5' – 10,700 gallons
IZGP21-3	21' x 7'6 – 16,050 gallons
IZGP24-2	24' x 5' – 14,000 gallons
IZGP24-3	24' x 7'6 – 21,000 gallons
IZGP30-3	30' x 7'6 – 33,000 gallons
IZGP30-4	30' x 10' – 44,000 gallons
IZGP36-2	36' x 5' – 30,500 gallons
IZGP36-3	36' x 7'6 – 45,750 gallons

**CALL TODAY FOR OTHER SIZES AND THE
BEST PRICE**

Greenseal tank liners only EPDM 0.75mm

Code	Description
IZLG09-02	Greenseal liner 9' x 6'
IZLG09-03	Greenseal liner 9' x 8.5'
IZLG12-02	Greenseal liner 12' x 6'
IZLG12-03	Greenseal liner 12' x 8.5'
IZLG15-02	Greenseal liner 15' x 6'
IZLG15-03	Greenseal liner 15' x 8.5'
IZLG18-02	Greenseal liner 18' x 6'
IZLG18-03	Greenseal liner 18' x 8.5'
IZLG21-02	Greenseal liner 21' x 6'
IZLG21-03	Greenseal liner 21' x 8.5'
IZLG24-02	Greenseal liner 24' x 6'
IZLG24-03	Greenseal liner 24' x 8.5'
IZLG30-02	Greenseal liner 30' x 6'
IZLG30-03	Greenseal liner 30' x 8.5'
IZLG36-02	Greenseal liner 36' x 6'
IZLG36-03	Greenseal liner 36' x 8.5'

BUTYL AND PVC LINERS ALSO AVAILABLE

Repair kits

Code	Description
IZLRP	PVC liner repair kit
IZLRT	Butyl liner cold repair kit

Steel tank take-off units

Code	Description
IZT-7	Water tank take off unit 2"

Brass gate valves



Heavy duty model. Max. Pressure: 20 bar.

Code	Description
IVG-2	Brass gate valve ½" F
IVG-3	Brass gate valve ¾" F

Permeable water tank covers

Flat dense woven poly. cover. Requires support across tank to prop the centre of the cover.

Code	Description
IZC09	Cover black 2.73m (9")
IZC12	Cover black 3.64m (12")
IZC15	Cover black 4.55m (15")
IZC18	Cover black 5.46m (18")
IZC21	Cover black 6.37m (21")

**FLOATING COVERS ARE AVAILABLE
ON REQUEST**

Steel tank covers



Code	Description
IZCS09	Steel cover (9")
IZCS12	Steel cover (12")
IZCS15	Steel cover (15")
IZCS18	Steel cover (18")
IZCS21	Steel cover (21")
IZCS24	Steel cover (24")
IZCS36	Steel cover (36")

PVC threaded tank connectors



Ideal for rigid plastic tanks.

Code	Description
IZTP-3	Threaded tank connector ¾"
IZTP-4	Threaded tank connector 1"
IZTP-6	Threaded tank connector 1½"
IZTP-7	Threaded tank connector 2"
IZTP20	Tank connector 20/25mm
IZTP25	Tank connector 25/32mm
IZTP32	Tank connector 32/40mm
IZTP40	Tank connector 40/50mm
IZTP50	Tank connector 50/63mm

Ball float valves



	Description
IZB-2	Float valve complete ½"M
IZB-3	Float valve complete ¾"M
IZB-4	Float valve complete 1"M
IZB-6	Float valve complete 1½"M
IZB-7	Float valve complete 2"M
IZBB-2	Float valve bracket ½"
IZBB-3	Float valve bracket ¾"
IZBB-4	Float valve bracket 1"
IZBB-6	Float valve bracket 1½"

Mixing tanks

Ideal as stock solution tanks and mixing tanks. Lids are also available. Please call for other sizes and further details.

Also available as round tanks and lids.

Code	Description
IZF0350	Glass fibre 350 ltr square
IZF10350	Glass fibre 350 ltr lid square
IZF0600	Glass fibre 600 ltr square
IZFI0600	Glass fibre 1000 ltr square
IZF1000	Glass fibre 1000 ltr lid square
IZFI1000	Glass fibre 2200 ltr square
IZF2200	Glass fibre 2200 ltr square
IZFI2200	Glass fibre 2200 ltr lid square

Filters

Plastic in-line filters

The choice of element should be determined by the primary source of containment. Disc filters should be used with algae as the length of time between cleaning is increased by almost 3 to1 over screens. Likewise screens are much more efficient than discs when filtering sand by the same ratio.

Colour	Mesh	mm	Element Type	Use with
green	30	0.50	moulded	Sprinklers
blue	50	0.30	moulded	Mini sprinklers Mist propagation spray nozzles
brown	60	0.25	disc	
white	75	0.20	moulded	drip systems trickle irrigation
yellow	155	0.10	moulded or disc	

Plastic filter ¾"



Available with moulded element only.
For flow rates up to 3m³/hr.
Recommended maximum working pressure 8 bar.
Inlet/outlet ¾" BSP male.

Code	Description
IFI-3-G	¾" M plastic filter Y+ 30 mesh
IFI-3-W	¾" M plastic filter Y+ 75 mesh
IFI-3-Y	¾" M plastic filter Y+ 155 mesh

Plastic filter 1"



Filters are available with moulded and disc elements.
For flow rates up to 7m³/hr.
Recommended maximum working pressure 8 bar.
Inlet outlet 1" BSP male.

Code	Description
IFI-4-G	1" M plastic Y filter +30 mesh
IFI-4-W	1" M plastic Y filter +75 mesh
IFI-4-Y	1" M plastic Y filter +155 mesh
IFI-4D-N	1" M plastic Y filter +60 disc
IFI-4D-Y	1" M plastic Y filter +155 disc

Plastic filter 1"



Filters are available with moulded or disc elements.
For flow rates up to 15m³.
Recommended maximum working pressure 8 bar.
Inlet outlet 1½" BSP male. Comes complete with two 1½" sockets.

Code	Description
IFI-6-G	1½" M plastic Y filter + 30 mesh
IFI-6-W	1½" M plastic Y filter + 75 mesh
IFI-6-Y	1½" M plastic Y filter + 155 mesh
IFI-6D-N	1½" M plastic Y filter + 60 disc
IFI-6D-Y	1½" M plastic Y filter + 155 disc

Plastic filters 2"



Filters are available with moulded stainless steel or disc elements.
For flow rates up to 25m³ / hr.
Recommended maximum working pressure 8 bar.
Inlet/outlet 2" BSP male.

Code	Description
IFI-7-B	2" M plastic filter + 50 mesh
IFI-7-Y	2" M plastic filter + 155 mesh
IFI-7D-Y	2" M plastic filter + 155 disc

**REPLACEMENT ELEMENTS AVAILABLE
ON REQUEST**

Plastic filters 3"



Filters are available with moulded stainless steel or disc elements.

For flow rates up to 50m³/hr.

Recommended maximum working pressure at 8 bar.

Inlet/outlet 3" BSP female.

Code	Description
IFI-9-B	3" M plastic filter + 50 mesh
IFI-9-Y	3" M plastic filter + 155 mesh
IFI-9D-Y	3" M plastic filter + 155 disc

Metal in-line filters



Filters are available with moulded stainless steel or disc elements.

2" for flow rates up to 30m³/hr.

Recommended maximum working pressure 8 bar.

Inlet/outlet 2" BSP female.

3" flow rates for up to 40m³/hr.

Recommended maximum working pressure 8 bar.

Inlet/outlet 3" BSP female.

Code	Description
IFIM-7G	2" metal filter + 60 mesh
IFIM-7-W	2" metal filter + 155 mesh
IFIM-7D-W	2" metal filter + 155 disc
IFIM-9-G	3" metal filter + 60 mesh
IFIM-9-W	3" metal filter + 155 mesh
IFIM-9D-W	3" metal filter + 155 disc

Automatic self cleaning filters



A fully automatic filter which senses when the filter needs cleaning on pressure differential or time and then uses a hydraulically driven cleaner to remove dirt from the inside of the filter element.

Contact us for latest prices/more details.

Size	Flow rate (recommended)
2" female	7-25m ³ per hour
3" flanged	14-40m ³ per hour

**LARGER AUTOMATIC FILTERS AVAILABLE
ON REQUEST**

Sand filters



Provides the finest filtration to remove silt and algae. Maximum flow rates are shown but generally the larger the better for effective filtration. Can easily be fitted with manual backwash system for cleaning the filter bed.

Extra PVC pipe fittings and valves required.

Code	Description
IFS06	6m ³ /hr sand filter
IFS09	9m ³ /hr sand filter
IFS15	15m ³ /hr sand filter
IFS20	20m ³ /hr sand filter
IFS28	28m ³ /hr sand filter
IFS30	30m ³ /hr sand filter
IFS60	60m ³ /hr sand filter
IFSS	Filter sand 25kg

Filter sand subject to additional delivery charge.

Sand filter arrays



An array is a complete filtering system.

It is recommended to put a standard array on a concrete base. All the arrays come with a controller for automatic back flushing which includes a differential pressure switch with a timed back up.

Description – <i>please call for price</i>
10m ³ /hr 18" single
15m ³ /hr 20" single
20m ³ /hr 24" single
40m ³ /hr 24" double
60m ³ /hr 24" triple

Slow sand filters



Biological slow sand filters are highly efficient filters in which the sand combines to give a very effective mechanical filtration and to provide a substrata for a biological culture as the water percolates slowly through the sand bed. Certain plant pathogens, especially certain fungi are destroyed.

Please call for further information.

Pressure Regulation

Adjustable 3/4" pressure regulators



Uses for example, on drip systems to maintain constant pressure in the system.

Flow rates 0.2 – 0.5m³ per hour.

3/4" female x 3/4" male.

Recommended pressure range 0.7-9 atm.

Code	Description
IR-3Y	0.5-1.2 atm regulator 3/4 yellow
IR-3W	0.8-2.5 atm regulator 3/4 white
IR-3R	2.0-4.0 atm regulator 3/4 red
IR-3B	3.5-6.0 atm regulator 3/4 black

Adjustable 1" pressure regulators



Plastic regulator with 1" female connections for 0.4 – 0.8m³ per hour flow rates. Recommended pressure range 0.7 – 0.9 atm.

Code	Description
IR-4W	0.5-1.2 atm regulator 1" white
IR-4R	1.0-2.0 atm regulator 1" red
IR-4B	1.5-3.5 atm regulator 1" black
IR-4N	3.0-5.5 atm regulator 1" natural

1 1/2" pressure regulators



A larger brass bodied adjustable pressure regulator for 0.5 – 18m³ per hour flow rates. Connections 1 1/2" female.

Code	Description
IR-6W	0.5-1.2 atm regulator 1 1/2" white
IR-6R	1.0-2.0 atm regulator 1 1/2" red
IR-6B	1.5-3.5 atm regulator 1 1/2" black
IR-6N	3.0-5.5 atm regulator 1 1/2" natural

Pressure gauges



Glycerine filled gauges with a 63mm dial. Connection 1/4" male. Mini ball valve can be used to isolate the gauge when not in use. Bush allows connection to PVC pipework.

Code	Description
IRG-1	Pressure gauge 0-7 bar
IRG-2	Pressure gauge 0-11 bar
IRGV-1	Pressure gauge valve 1/4" MF
IPRB20-1	20mm x 1/4" F bush

Hose and Accessories

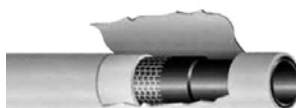
Suction hose



For use where a flexible pipe is needed between the reservoir and the suction side of the pump.

Code	Description
IHS-5	Suction hose 1 1/4"
IHS-6	Suction hose 1 1/2"
IHS-7	Suction hose 2"
IHS-9	Suction hose 3"

Tricoflex hose



Standard yellow nursery watering hose. Excellent kink and handling characteristics. Working pressure 10bar 1/2", 3/4", and 8 bar 1" and 1 1/4".

Code	Description
IHT2-A	Tricoflex hose 1/2" 25m
IHT2-B	Tricoflex hose 1/2" 50m
IHT2-1	Tricoflex hose 1/2" 100m
IHT3-A	Tricoflex hose 3/4" 25m
IHT3-B	Tricoflex hose 3/4" 50m
IHT3-1	Tricoflex hose 3/4" 100m
IHT4-A	Tricoflex hose 1" 25m
IHT4-B	Tricoflex hose 1" 50m
IHT4-1	Tricoflex hose 1" 100m
IHT5-A	Tricoflex hose 1 1/4" 25m
IHT5-B	Tricoflex hose 1 1/4" 50m

Jubilee clips



Code	Description
IHJ000	Jubilee clip 9.5-2mm
IHJ00	Jubilee clip 13-20mm
IHJ0X	Jubilee clip 17-25mm
IHJ1A	Jubilee clip 22-30mm
IHJ1	Jubilee clip 25-35mm
IHJ1X	Jubilee clip 30-40mm
IHJ2A	Jubilee clip 35-50mm
IHJ3	Jubilee clip 50-70mm
IHJ4	Jubilee clip 70-90mm

Brass quick couplings – hose



Code	Description
IHQH-2	Hose tail 1/2"
IHQH-3	Hose tail 3/4"
IHQH-4	Hose tail 1"
IHQH-5	Hose tail 1 1/4"
IHQH-6	Hose tail 1 1/2"

Brass quick couplings - female



Code	Description
IHQF-2	Hose coupling F 1/2"
IHQF-3	Hose coupling F 3/4"
IHQF-4	Hose coupling F 1"
IHQF-5	Hose coupling F 1 1/4"
IHQF-6	Hose coupling F 1 1/2"

Brass quick couplings - male



Code	Description
IHQM-2	Hose coupling M 1/2"
IHQM-3	Hose coupling M 3/4"
IHQM-4	Hose coupling M 1"
IHQM-5	Hose coupling M 1 1/4"
IHQM-6	Hose coupling M 1 1/2"

Brass quick couplings - Y



Code	Description
IHQY	Hose coupling Y piece

Brass quick couplings – end cap



Code	Description
IHQE	Hose coupling end cap

Brass quick coupling washers



Code	Description
IHQW	Hose coupling washers

Hose connectors - brass



Brass hosetail connection to male threaded BSP.

Code	Description
IHCB-2	Hose connector brass 1/2"
IHCB-3	Hose connector brass 3/4"
IHCB-4	Hose connector brass 1"
IHCB-5	Hose connector brass 1 1/4"
IHCB-6	Hose connector brass 1 1/2"
IHCB-7	Hose connector brass 2"

Hose connections - PVC



PVC hosetail connection to male threaded BSP.

Code	Description
IHCP-2	Hose connector 1/2" PVC
IHCP-3	Hose connector 3/4" PVC
IHCP-4	Hose connector 1" PVC
IHCP-5	Hose connector 1 1/4" PVC
IHCP-6	Hose connector 1 1/2" PVC
IHCP-7	Hose connector 2" PVC

Watering lances

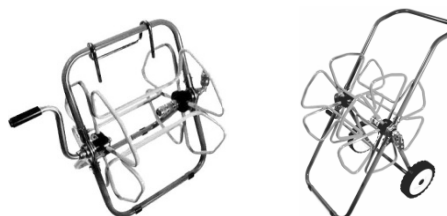


Code	Description
IHYL-1	Aluminium lance 60cm
IHYL-2	Aluminium lance 90cm
IHYL-3	Aluminium lance 120cm
IHYLR-1	Aluminium rose – large
IHYLR-2	Triple jet nozzle
IHYLP	Spray pistol 67 l/min at 6 bar

Aluminium lances come complete with a metal valve and rose, giving an output of 5 litres/min at 6 bar.

OTHER LANCES AND ROSES AVAILABLE ON REQUEST

Hose reels



Code	Description
IHR-2	Reel for 50m 1/2" hose
IHRT-2	Trolley for 100m 1/2" hose
IHRT-3	Trolley for 100m 3/4" hose
IHRT-4	Trolley for 80m 1" hose HD

Ebb Flood

Ebb flood tray



Grey UV stabilised plastic ebb flood tray inserts. Standard widths of 1.0m, 1.2m, 1.45m, 1.5m, 1.6m, 1.8m, 1.9m, 2.0m and 2.2m to any length of bench.

Comes with built in sump and filter for inlet/outlet.

These trays are suitable for both new benching and converting existing benches to a modern ebb-flood system.

Ebb-flood valves

Quick valve



The quick valve utilises a separate inlet and outlet connection and has an integral strainer. The filling speed can be altered during installation to give between about 11 and 32 l/m at 1 bar. The drainage operates at about 28 l/m while siphoning at 1 bar. The drainage operates at about 28 l/m while siphoning. Quick valves are available with either a PE tube connection for 8mm or 10.5/12.5mm tube, a ½" hose connection or a ¾" hose connection.

HS valve



The HS valve uses the same pipe for both inlet and outlet so that just one pipe has to be run from the holding tank to the benches, a check valve sealing the drain while the pump is running. As with the Quick Valve there are alternative connections for PE tube or hoses. It also is available with different sized drillings to provide different inlet rates.

Siphon valve



This is an outlet valve only and designed mainly for container bench systems where the bench tops travel and therefore cannot be connected to a hose. In such systems the water supply is via a fixed pipe, usually arranged over the end of the bench. The outlet is via the siphon valve into a gutter under the bench and then back to the holding tank.

The siphon valve can be adjusted to drain at one of three different levels or to be sealed to retain the water.

Capillary Matting

Aquamat capillary matting

Sold in 50m rolls. Please call for details.

Code	Description
IYCA30	Aquamat capillary mat 30cm
IYCA40	Aquamat capillary mat 40cm
IYCA50	Aquamat capillary mat 50cm
IYCA60	Aquamat capillary mat 60cm
IYCA70	Aquamat capillary mat 70cm
IYCA100	Aquamat capillary mat 100cm
IYCA120	Aquamat capillary mat 120cm
IYCA140	Aquamat capillary mat 140cm

Klavermat capillary matting

Sold in various widths and lengths. Please call for details and prices.

type	approx. water capacity
Klavermat HC 80g/m ²	0.8 litres/m ²
Klavermat HC 125g/m ²	1.3 litres/m ²
Klavermat HC 200g/m ²	2.0 litres/m ²
Klavermat HC 300g/m ²	3.0 litres/m ²