

# JAVELIN

IRRIGATION SYSTEMS

2016-17



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## Introduction

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Javelin Hose Reel Irrigators (RM & Irrifrance) • Irrigation Booms • Solid Set Sprinkler Equipment

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Speedy Rain Mini Hose Reel Irrigators • Mini Irrigation Booms • Rain-Mobile Self-Travelling Irrigator • Water Tractor Garden Irrigator  
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Aluminium Pipes & Fittings • Galvanised Steel Pipes & Fittings • Steel Road Crossings • PVC Pipes & Hydrant Assemblies • Compression Fittings for PE pipe • MDPE Pipe • Layflat and Tricoflex Water Hoses • Various Couplers for hoses • Galvanised Malleable Fittings

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Complete Rovatti range for surface and submersible applications. • DAB Electric Pumps

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# JAVELIN

## IRRIGATION SYSTEMS

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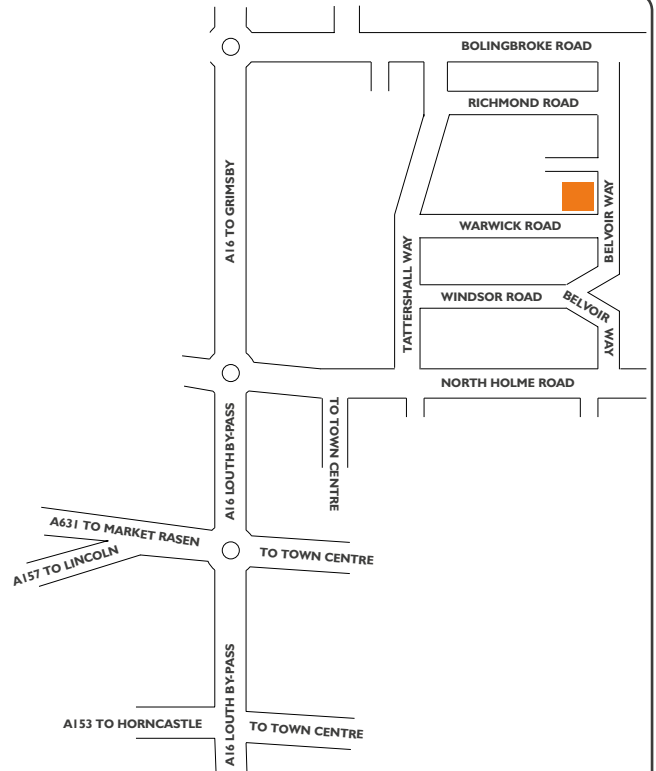
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## Welcome to the Javelin

### 2016/17 Price Guide

Javelin Irrigation Systems Limited is one of the largest importers and distributors of irrigation and pumping equipment in the UK.

*We can supply products from some of Europe's leading manufacturers including:*

**Irrifrance • RM • Rovatti • Komet • Chamsa • Murphy • 4-Group • Unirain**

*With equipment suitable for many applications including:*

**Agriculture • Horticulture • Turf • Landscape • Industry • Dust Suppression • Mining**

Operating from our purpose built premises in Louth, Lincolnshire, we hold many items of stock shown in this catalogue.

An extensive workshop is also on site where we are able to fabricate bespoke items to individual requirements.





## The Javelin Range

We are the sole UK importers for two ranges of hose reel irrigators: **IRRIFRANCE** and **RM**.

Javelin has sold the **Irrifrance** equipment range since the late 1970's with many 100's of machines sold across the British Isles. Machines are supplied, as standard, with either the **Irricontrol computer** or the top specification **Irridoseur computer** (with GSM option).

**RM** irrigation equipment has been part of our range since 2000 and has proved to be a popular alternative, especially if the customer does not require computer control as standard. Typically we supply the larger machines with a **Program Rain 10 computer** however, smaller machines can be fitted with this option if required.

**Selected hose reels are held in stock** and these are offered at the best discounted rates to encourage the grower to purchase at competitive out-of-season prices. Other machines can be ordered as required. **1000's of machine spare parts are also held in stock** to assist with reduced down-time during the busy irrigation months.

A brief outline of the equipment range is shown below with further specifications on the following pages. Full information and prices are available on request.

### IRRIFRANCE Hose Reel Irrigators



#### VPS Series



- Efficient high speed Turbine drive hose reels with computer
- Bellows drive options on smaller irrigators (63, 70, 82, 90 and 100mm)
- **Optima series**- standard single/double axle reels
- **VPS series** - single axle 'sit down' reels with turntable sitting on the ground for increased stability
- **2000 series** - double axle reels with adjustable track widths

#### SPECIFICATIONS

- Irricontrol or Irridoseur computer (GSM remote control option for Irridoseur)
- New upgraded Irridoseur-5 computer with digital screen displaying all programmed information
- Galvanised chassis and turret
- Articulated and galvanised three wheeled trolley (other trolley options available including trolley's with 2-wheels and skid)
- Self-loading raingun trolley
- Adjustable machine and trolley axles
- Mechanical or Hydraulic Stabilisers, Turntable and Front Jack
- Two speed gearbox
- Automatic shut-off and speed compensation
- Hose diameters from 44 to 135mm
- Hose lengths from 120 to 750 metres



Literature  
available

### RM Hose Reel Irrigators



- Single or double axle reels
- Efficient high speed by-pass Turbine with direct drive into 3-speed or 4-speed gearbox
- **GX series**- standard single/double axle reels
- **XJ and Major series** - single/double axles with machine turntable sitting on the ground for increased stability

#### SPECIFICATIONS

- Galvanised chassis and painted drum (fully galvanised on selected models)
- Galvanised steel three-wheeled trolley with options including offset drawbar, cast-iron wheels, steering and ballast discs
- Adjustable machine and trolley axles
- Manual, Mechanical or Hydraulic Turntable
- Mechanical or Hydraulic Stabiliser Legs and Front Jack
- Automatic shut-off and speed compensation
- Optional Program Rain 10 Computer Control with GSM remote control option
- Hose diameters from 50 to 150mm
- Hose lengths from 170 to 780 metres



Literature  
available



## RM Hose Reel Irrigators

**2016/17 Machinery Guide**

Prices available on request







Hose Reel Structure	Hose OD & Length (mm/mtr)	Output Range (m³/hr)	Max Output Acre Inches per Day	Where Hose Finishes on Drum				Boom Size Available	Komet Raingun Supplied	Hose Reel Drive Mechanism	Single Axle Reel	Double Axle Reel
<b>540</b>	50/170	5 - 21	4.8		•			14m	163	Turbine	Yes	-
	50/250	5 - 18	4.2			•		14m	163	Turbine	Yes	-
	63/190	9 - 25	5.8				•	14m	163	Turbine	Yes	-
<b>560</b>	63/250	9 - 29	6.7	•				20m	163	Turbine	Yes	-
	63/300	10 - 22	5.1				•	20m	163	Turbine	Yes	-
	70/250	12 - 35	8.1			•		20m	163	Turbine	Yes	-
	70/330	9 - 29	6.7		•			20m	163	Turbine	Yes	-
	75/200	22 - 48	11.1	•				20m	Twin 101VA	Turbine	Yes	-
	75/250	14 - 34	7.9				•	20m	Twin 101VA	Turbine	Yes	-
	82/160	23 - 48	11.1	•				20m	Twin 101VA	Turbine	Yes	-
<b>570</b>	75/320	14 - 35	8.1			•		30m/Liquo	Twin 101VA	Turbine	Yes	-
	75/350	14 - 34	7.9				•	30m/Liquo	Twin 101VA	Turbine	Yes	-
	82/270	18 - 43	10.0		•			30m/Liquo	Twin 101VA	Turbine	Yes	-
	82/300	18 - 43	10.0				•	30m/Liquo	Twin 101VA	Turbine	Yes	-
	90/220	31 - 65	15.1	•				30m/Liquo	Twin 101VA	Turbine	Yes	-
	90/240	31 - 65	15.1		•			30m/Liquo	Twin 101VA	Turbine	Yes	-
	90/260	31 - 65	15.1				•	30m/Liquo	Twin 101VA	Turbine	Yes	-
<b>581</b>	82/350	22 - 48	11.1			•		30m/40m/Liquo	Twin 101VA	Turbine	Yes	-
	82/400	14 - 35	8.1				•	30m/40m/Liquo	Twin 101VA	Turbine	Yes	-
	90/300	31 - 65	15.1		•			30m/40m/Liquo	Twin 101VA	Turbine	Yes	-
	90/320	27 - 56	13.0				•	30m/40m/Liquo	Twin 101VA	Turbine	Yes	-
	90/350	27 - 56	13.0				•	30m/40m/Liquo	Twin 101VA	Turbine	Yes	-
	90/370	27 - 56	13.0			•		30m/40m/Liquo	Twin 101VA	Turbine	Yes	-
	90/400	22 - 48	11.1				•	30m/40m/Liquo	Twin 101VA	Turbine	Yes	-
	100/270	37 - 86	20.0		•			30m/40m/Liquo	Twin 140VA	Turbine	Yes	-
	100/300	37 - 75	17.4				•	30m/40m/Liquo	Twin 140VA	Turbine	Yes	-
	100/350	37 - 75	17.4		•			30m/40m/Liquo	Twin 140VA	Turbine	Yes	-
<b>690</b>	90/400	22 - 48	11.1				•	40m/50m/Liquo	Twin 101VA	Turbine	Yes	Yes
	90/430	25 - 45	10.4				•	40m/50m/Liquo	Twin 101VA	Turbine	Yes	Yes
	90/450	22 - 48	11.1		•			40m/50m/Liquo	Twin 101VA	Turbine	Yes	Yes
	100/360	37 - 75	17.4				•	40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes
	100/400	31 - 65	15.1				•	40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes
	100/420	31 - 65	15.1		•			40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes
	110/300	30 - 95	22.1				•	40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes
	110/350	30 - 90	20.9				•	40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes
	110/370	37 - 86	20.0	•				40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes
	120/270	51 - 114	26.5			•		40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes
	125/250	67 - 130	30.2			•		40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes
<b>790</b>	100/450	28 - 68	15.8		•			40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes
	100/480	31 - 65	15.1	•				40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes
	110/350	30 - 90	20.9				•	40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes
	110/400	30 - 96	22.3				•	40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes
	110/420	30 - 90	20.0			•		40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes
	110/440	37 - 75	17.4		•			40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes
	120/300	50 - 114	26.5				•	40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes
	120/320	35 - 130	30.2				•	40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes
	120/360	44 - 94	21.8		•			40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes
	125/300	59 - 114	26.5				•	40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes
	125/340	59 - 114	26.5		•			40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes

Full machine specifications and options shown on Page 7

DVD available illustrating the full range of Javelin/RM hose reel irrigators, call us for a copy

**FREE**



Hose Reel Structure	Hose OD & Length (mm/mtr)	Output Range (m³/hr)	Max Output Acre Inches per Day	Where Hose Finishes on Drum				Boom Size Available	Komet Raingun Supplied	Hose Reel Drive Mechanism	Single Axle Reel	Double Axle Reel		
<div>890</div> <div></div>	100/530	28 - 56	13.3					•	40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes	
	100/600	27 - 56	13.3			•			40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes	
	110/450	37 - 70	16.2				•		40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes	
	110/500	37 - 70	16.2					•	40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes	
	110/520	37 - 75	17.4					•	40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes	
	110/550	37 - 75	17.4					•	40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes	
	110/570	37 - 75	17.4	•					40m/50m/Liquo	Twin 140VA	Turbine	Yes	Yes	
	120/400	44 - 94	21.8	•					40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes	
	120/430	44 - 94	21.8				•		40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes	
	120/450	44 - 94	21.8					•	40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes	
	125/370	59 - 106	24.6					•	40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes	
	125/400	59 - 106	24.6				•		40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes	
	125/420	59 - 106	24.6	•					40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes	
	135/300	68 - 145	33.7					•	40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes	
	135/350	68 - 145	33.7	•					40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes	
135/380	68 - 119	27.6					•	40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes		
140/300	68 - 130	30.2					•	40m/50m/Liquo	Twin 160VA	Turbine	Yes	Yes		
<div>990</div> <div></div>	110/580	31 - 65	15.1					•	40m/50/72m/Liquo	Twin 140VA	Turbine	-	Yes	
	110/600	31 - 65	15.1					•	40m/50/72m/Liquo	Twin 140VA	Turbine	-	Yes	
	110/650	31 - 65	15.1			•			40m/50/72m/Liquo	Twin 140VA	Turbine	-	Yes	
	120/480	44 - 94	21.8					•	40m/50/72m/Liquo	Twin 160VA	Turbine	-	Yes	
	120/530	37 - 86	20.0					•	40m/50/72m/Liquo	Twin 160VA	Turbine	-	Yes	
	120/580	37 - 83	19.3					•	40m/50/72m/Liquo	Twin 160VA	Turbine	-	Yes	
	120/600	37 - 83	19.3			•			40m/50/72m/Liquo	Twin 160VA	Turbine	-	Yes	
	125/450	59 - 106	24.6					•	40m/50/72m/Liquo	Twin 160VA	Turbine	-	Yes	
	125/500	51 - 94	21.8					•	40m/50/72m/Liquo	Twin 160VA	Turbine	-	Yes	
	125/550	51 - 94	21.8					•	40m/50/72m/Liquo	Twin 160VA	Turbine	-	Yes	
	135/450	68 - 130	30.2					•	40m/50/72m/Liquo	Twin 160VA	Turbine	-	Yes	
	140/350	77 - 145	33.7					•	40m/50/72m/Liquo	Twin 160VA	Turbine	-	Yes	
140/400	67 - 130	30.2					•	40m/50/72m/Liquo	Twin 160VA	Turbine	-	Yes		
<div>1000</div> <div></div>	120/650	37 - 83	19.3					•	40m/50m/72m	Twin 160VA	Turbine	-	Yes	
	120/680	37 - 83	19.3						•	40m/50m/72m	Twin 160VA	Turbine	-	Yes
	125/550	51 - 94	21.8			•			40m/50m/72m	Twin 160VA	Turbine	-	Yes	
	125/600	43 - 86	20.0					•	40m/50m/72m	Twin 160VA	Turbine	-	Yes	
	125/650	43 - 86	20.0						•	40m/5m0/72m	Twin 160VA	Turbine	-	Yes
	125/670	43 - 86	20.0						•	40m/50m/72m	Twin 160VA	Turbine	-	Yes
	135/530	59 - 114	26.5						•	40m/50m/72m	Twin 160VA	Turbine	-	Yes
<div>Magnum Fx 6-Wheels</div> <div></div>	120/780	37 - 83	19.3			•			n/a	Twin 160VA	Turbine	Triple Axle		
	125/700	40 - 94	21.8					•	n/a	Twin 160VA	Turbine	Triple Axle		
	125/750	40 - 84	19.5					•	n/a	Twin 160VA	Turbine	Triple Axle		
	135/630	45 - 130	30.2					•	n/a	Twin 160VA	Turbine	Triple Axle		
<div>Major</div> <div></div>	120/650	43 - 75	17.4					•	n/a	Twin 160VA	Turbine	-	Yes	
	120/680	29 - 96	22.3						•	n/a	Twin 160VA	Turbine	-	Yes
	125/550	44 - 130	30.2					•	n/a	Twin 160VA	Turbine	-	Yes	
	125/600	45 - 120	27.9					•	n/a	Twin 160VA	Turbine	-	Yes	
	125/650	44 - 115	26.7						•	n/a	Twin 160VA	Turbine	-	Yes
	125/670	44 - 115	26.7						•	n/a	Twin 160VA	Turbine	-	Yes
	135/530	44 - 160	37.2						•	n/a	Twin 160VA	Turbine	-	Yes
	140/450	52 - 175	40.7			•			n/a	Twin 160VA	Turbine	-	Yes	
	140/500	52 - 185	43.0						•	n/a	Twin 160VA	Turbine	-	Yes
150/460	77 - 161	37.4						•	n/a	Twin 160VA	Turbine	-	Yes	
<div>Magnum</div> <div></div>	120/780	37 - 83	19.3			•			n/a	Twin 160VA	Turbine	-	Yes	
	125/700	40 - 94	21.8					•	n/a	Twin 160VA	Turbine	-	Yes	
	125/750	40 - 84	19.5					•	n/a	Twin 160VA	Turbine	-	Yes	
	135/630	59 - 106	24.6					•	n/a	Twin 160VA	Turbine	-	Yes	
	140/550	68 - 130	30.2					•	n/a	Twin 160VA	Turbine	-	Yes	
	140/600	59 - 114	26.5			•			n/a	Twin 160VA	Turbine	-	Yes	
	150/500	77 - 161	37.4						•	n/a	Twin 160VA	Turbine	-	Yes
	150/540	77 - 161	37.4			•			n/a	Twin 160VA	Turbine	-	Yes	

## Machine Coding

<b>GX Series</b>	Turntable Reel with Single Axle (Double Axle 990 & 1000GX)
<b>Magnum FX</b>	No Turntable, Fixed Axle with 6 wheels
<b>XJ Series</b>	Turntable Reel (except Magnum) with Single Axle (Double Axle for Major & Magnum) all with Hydraulic Lifting Wheels

## Komet Rainguns & Sprinkler

Each machine is supplied c/w a Komet vari-angle raingun or fixed angle sprinkler with two nozzles of choice.

<b>K163</b>	10, 12, 14, 16mm	<b>Twin 140/Plus</b>	20, 22, 24, 26, 28, 30mm
<b>Twin 101/Plus</b>	14, 16, 18, 20, 22mm	<b>Twin 160/Pro</b>	22, 24, 26, 28, 30mm

Description	540 GX	560 GX	570 GX	581 GX EVO	690 GX	790 GX	890 GX	990 GX	1000 GX	Magnum FX	600 XJ	700 XJ	800 XJ	900 XJ EVO	Major XJ	Magnum XJ
Gearbox	3 Speed	4 Speed	4 Speed	4 Speed	4 Speed	4 Speed	4 Speed	4 Speed	4 Speed	4 Speed	4 Speed	4 Speed	4 Speed	4 Speed	4 Speed	4 Speed
Turbine mounted on gearbox with separate by-pass	Std	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbine mounted on gearbox with built-in by-pass	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Drive Mechanism on to Hose Drum	Pinion	Pinion	Pinion	Pinion	Chain	Chain	Chain	Chain	Chain	-	Pinion	Chain	Chain	Chain	Chain	-
Dual Chain Drive on to Hose Drum	-	-	-	-	-	-	-	-	-	Std	-	-	-	-	Std	Std
Turntable	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Hyd	Hyd	Fixed	Manual	Manual	Hyd	Hyd	Hyd	Fixed
Option - Mechanical	-	-	-	•	•	•	•	-	-	-	-	-	-	-	-	-
Option - Hydraulic	-	-	-	•	•	•	•	-	-	-	•	•	-	-	-	-
Stabiliser Legs	Mech	Mech	Mech	Hyd	Hyd	Hyd	Hyd	Hyd	Hyd	Hyd	Hyd	Hyd	Hyd	Hyd	Hyd	Hyd
Front Jack on Drawbar	Mech	Mech	Mech	Mech	Mech	Mech	-	-	-	-	-	-	-	-	-	-
Hydraulic Jack on Drawbar	-	-	-	•	•	•	•	Std	Std	Std	Std	Std	Std	Std	Std	Std
Hydraulic Lifting Wheels	-	-	-	-	-	-	-	-	-	-	Std	Std	Std	Std	Std	Std
Raingun Trolley Lifting	Mech	Mech	Hyd	Auto	Auto	Auto	Auto	Hyd	Hyd	Hyd	Auto	Auto	Auto	Auto	Auto	Auto
Raingun Trolley with 3-Wheels & Fully Galvanised	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Raingun Trolley suitable for connection of 40m boom	-	-	-	-	-	-	-	Std	Std	Std	-	-	-	-	-	-
Raingun Trolley Front Wheel	Fixed	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating
Raingun Trolley - Wheel Weights	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Raingun Trolley - Cast Iron Wheels (replaces std wheels)	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•
Raingun Trolley - Steering & Ballast Discs for Wheels	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•
Raingun Trolley - Offset Kit (use with drawbar below)	-	-	-	•	•	•	•	•	•	•	-	-	-	-	-	-
Raingun Trolley - Offset Drawbar	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•
Galvanised Chassis & Painted Drum	Std	-	-	Std	Std	Std	Std	Std	Std	•	Std	Std	Std	Std	•	•
Galvanised Chassis & Drum	-	Std	Std	•	•	•	•	•	•	•	•	•	•	•	•	•
Painted Chassis & Drum	-	-	-	-	-	-	-	-	Std	Std	-	-	-	-	Std	Std
Hydraulic Boom Lifting Kit	-	•	•	•	•	•	•	Std	Std	Std	-	-	-	-	-	-
Water Inlet Both Sides	-	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Unwinding Brake (for PET hose rewind)	Manual	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
PTO Rewind	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Automatic Shut-Down Valve	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Connection Hose	8m	8m	8m	8m	8m	8m	8m	8m	8m	8m	8m	8m	8m	8m	8m	8m
Pressure Gauge	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Tachometer	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Axle	Single (2 wheels)	-	-	-	•	•	•	Std	Std	-	-	-	-	•	Std	-
	Double (4 wheels) Pivoting	-	-	-	-	-	-	-	-	Std	-	-	-	-	Std	-
	Triple (6 wheels)	-	-	-	-	-	-	-	-	Std	-	-	-	-	-	-
5 Hp Petrol Engine & Hydraulic Power Pack	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•
Air Compressor to Empty PET Hose	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Computer - Irrigamatic 300 c/w Solar Panel	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•
Computer - Program Rain 10 c/w Solar Panel	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•
GSM Control (for Program Rain 10)	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•
Slow Return Raingun (see Price Pages for details)	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std

- Not Applicable   **Std** = Standard   **Manual** = Manual   **Mech** = Mechanical   **Hyd** = Hydraulic   **Auto** = Automatic   • = Optional Extra

Hose Reel Structure	Hose OD & Length (mm/mtr)	Hose Thickness (mm)	Hectares per Pull	Reel Capacity (m³/hr)	Reel Inlet Pressure (Bars)	Position of PET Hose from Left	Komet Raingun Supplied	Single Axle Irrigator	Double Axle Irrigator	With Irricontrol computer	With Irridoseur computer
OPTIMA SERIES											
1005	75/300	5.5	2.0	12 - 34	6 - 9	70%	Twin 101VA	Yes	-	Yes	Yes
	82/260	6	1.9	17 - 45	5.2 - 9	50%	Twin 101VA	Yes	-	Yes	Yes
1010	75/380	5.5	2.5	12 - 30	6 - 10	40%	Twin 101VA	Yes	-	Yes	Yes
	82/300	6	2.2	17 - 45	5.5 - 9.5	70%	Twin 101VA	Yes	-	Yes	Yes
	90/270	6.7	2.3	18 - 60	5.5 - 10	60%	Twin 101VA	Yes	-	Yes	Yes
1015	75/400	6.8	2.6	18 - 30	5.5 - 10	70%	Twin 101VA	Yes	-	Yes	Yes
	82/350	6	2.5	18 - 40	5.5 - 10	50%	Twin 101VA	Yes	-	Yes	Yes
	82/370	6	2.5	18 - 40	5.5 - 10	70%	Twin 101VA	Yes	-	Yes	Yes
	90/340	6.7	2.6	18 - 58	5.5 - 10	60%	Twin 101VA	Yes	-	Yes	Yes
	100/260	7.4	2.6	18 - 70	5.5 - 10	80%	Twin 140VA	Yes	-	Yes	Yes
1020	82/420	7.5	2.7	23 - 37	5.5 - 10	70%	Twin 101VA	Yes	-	Yes	Yes
	90/400	6.7	2.9	23 - 50	5.5 - 11	80%	Twin 101VA	Yes	-	Yes	Yes
	90/450	8.2	3.3	25 - 45	5.5 - 11	35%	Twin 101VA	Yes	-	Yes	Yes
	100/330	7.4	3.1	23 - 67	5.5 - 10	40%	Twin 140VA	Yes	-	Yes	Yes
	100/370	7.4	3.5	23 - 60	5.5 - 10	80%	Twin 140VA	Yes	-	Yes	Yes
	110/340	8.2	3.6	23 - 75	5.5 - 10	80%	Twin 140VA	Yes	-	Yes	Yes
1027	90/500	8.2	3.6	25 - 40	6 - 10	50%	Twin 101VA	Yes	Yes	Yes	Yes
	100/400	7.4	3.4	30 - 60	6 - 10	90%	Twin 140VA	Yes	Yes	Yes	Yes
	100/450	9.1	3.5	30 - 55	6 - 10	40%	Twin 140VA	Yes	Yes	Yes	Yes
	100/470	9.1	3.6	30 - 55	6 - 10	100%	Twin 140VA	Yes	Yes	Yes	Yes
	110/370	8.2	3.3	30 - 75	6 - 10	40%	Twin 140VA	Yes	Yes	Yes	Yes
	110/400	8.2	3.6	30 - 80	6 - 10	70%	Twin 140VA	Yes	Yes	Yes	Yes
	110/420	10	3.9	30 - 65	6 - 10	90%	Twin 140VA	Yes	Yes	Yes	Yes
1032	100/500	9.1	3.9	30 - 50	6 - 10	50%	Twin 140VA	Yes	Yes	Yes	Yes
	100/540	11	4.3	35 - 48	7 - 10	85%	Twin 140VA	Yes	Yes	Yes	Yes
	110/450	10	3.8	40 - 65	6.2 - 10	40%	Twin 140VA	Yes	Yes	Yes	Yes
	110/470	10	3.9	40 - 65	6.2 - 10	55%	Twin 140VA	Yes	Yes	Yes	Yes
	110/500	10	4.2	40 - 65	6.2 - 10	80%	Twin 140VA	Yes	Yes	Yes	Yes
	120/370	8.9	3.4	30 - 90	6 - 10	80%	Twin 160VA	Yes	Yes	Yes	Yes
	120/380	8.9	3.4	30 - 90	6 - 10	90%	Twin 160VA	Yes	Yes	Yes	Yes
	125/350	11.4	3.1	30 - 92	6 - 10	70%	Twin 160VA	Yes	Yes	Yes	Yes
	125/360	11.4	3.2	30 - 92	6 - 10	85%	Twin 160VA	Yes	Yes	Yes	Yes
1037	100/550	11	4.4	35 - 48	7 - 10	40%	Twin 140VA	Yes	Yes	Yes	Yes
	100/600	11	4.7	35 - 48	7.5 - 10.5	80%	Twin 140VA	Yes	Yes	Yes	Yes
	110/450	12.3	3.8	40 - 65	6.7 - 10	80%	Twin 140VA	Yes	Yes	Yes	Yes
	110/500	10	4.2	40 - 65	6.2 - 10	30%	Twin 140VA	Yes	Yes	Yes	Yes
	110/530	11.4	4.5	40 - 61	6.8 - 10.4	60%	Twin 140VA	Yes	Yes	Yes	Yes
	110/550	12.3	4.6	40 - 61	6.9 - 10.6	75%	Twin 140VA	Yes	Yes	Yes	Yes
	110/570	12.3	4.8	40 - 61	7 - 10.7	90%	Twin 140VA	Yes	Yes	Yes	Yes
	120/400	11.4	3.7	40 - 90	5.4 - 10.3	70%	Twin 160VA	Yes	Yes	Yes	Yes
	120/420	11.5	3.8	40 - 90	5.4 - 10.5	90%	Twin 160VA	Yes	Yes	Yes	Yes
	125/385	11.4	3.5	40 - 92	5.2 - 9.7	75%	Twin 160VA	Yes	Yes	Yes	Yes
	125/400	11.4	3.7	40 - 92	5.2 - 9.8	80%	Twin 160VA	Yes	Yes	Yes	Yes
	125/410	11.4	3.8	40 - 92	5.3 - 9.9	95%	Twin 160VA	Yes	Yes	Yes	Yes
	135/370	10	3.5	40 - 100	5 - 9	75%	Twin 160VA	Yes	Yes	Yes	Yes
	135/390	10	3.6	40 - 100	5.1 - 9.1	95%	Twin 160VA	Yes	Yes	Yes	Yes
1045	110/560	12.3	4.6	40 - 58	7 - 10	100%	Twin 140VA	Yes	Yes	Yes	Yes
	120/460	11.5	4.1	40 - 80	7 - 10	30%	Twin 160VA	Yes	Yes	Yes	Yes
	120/520	11.5	4.4	40 - 80	7 - 10	90%	Twin 160VA	Yes	Yes	Yes	Yes
	125/440	11.4	4.4	40 - 90	7 - 10	30%	Twin 160VA	Yes	Yes	Yes	Yes
	125/500	11.5	4.0	40 - 90	7 - 10	90%	Twin 160VA	Yes	Yes	Yes	Yes
1055	110/650	12.3	5.0	40 - 75	8 - 11	70%	Twin 140VA	Yes	Yes	Yes	Yes
	120/620	13.2	5.3	40 - 70	7 - 11	80%	Twin 160VA	Yes	Yes	Yes	Yes
	125/600	14.0	5.3	40 - 80	6.5 - 11	80%	Twin 160VA	Yes	Yes	Yes	Yes



A user-friendly, highly robust range of low pressure irrigation booms, available in two build options; galvanised steel and aluminium.

Designed for "one man, one tractor" use, Javelin booms can be transported between irrigation runs connected to the hose reel irrigator **without**

dismantling the arms. Suitable for connection to **every** type of hose reel irrigator.

## Steel Booms (8m model)



- Plated Steel construction
- Mounts directly on to top of trolley for Speedy Rain mini hose reel (details for these machines are shown on page 16)
- Speedy Rain trolley has adjustable wheel centres
- Working pressure from as low as 1 Bar
- Low pressure nozzle set plus end nozzles
- Optional flow control valves can be fitted to suit specific duties

## Galvanised Steel Boom (14-50m models)



- Robust Galvanised Steel construction
- Self-levelling with a 360° rotation (models RM20 - RM50 only)
- Mounted on three wheel galvanised trolley
- Adjustable wheel centres of up to 4 metres straddles two bed widths
- Working pressure from as low as 1 Bar
- Low pressure nozzle set plus end nozzles
- Optional flow control valves can be fitted to suit specific duties

Model	Boom Size	Maximum Wetted Width	Type of Rotation	Number of Nozzles	Nozzle Size	Nozzle Type	Flow Range m³/hr	Price (£)
RM8	8 metre	Up to 12 metres	Fixed	8 No.	-	RG4	4 - 7	£345.00
RM14	14 metre	Up to 20 metres	Fixed	14 No.	-	RG4 or Brass	12 - 21	£1,930.00
RM20	20 metre	Up to 30 metres	360°	17 No.	2-3mm	Brass	19 - 43	£3,725.00
RM30	30 metre	Up to 40 metres	360°	27 No.	2-3mm	Brass	29 - 65	£4,850.00
RM40	40 metre	Up to 50 metres	360°	35 No.	2-4mm	Brass	37 - 116	£7,500.00
RM50	50 metre	Up to 60 metres	360°	45 No.	2-4mm	Brass	46 - 132	£8,500.00

## Liquo G25 Slurry Boom



- Galvanised steel boom suitable for slurry and dirty waters
- Self-levelling structure, 28m wide
- 30 metre effective irrigation width
- Can connect to any type hose reel irrigator; however, some modification may be required
- Supplied with drop tubes for low level dispersal
- Price available on request



Pictures show Liquo G25 boom operating at a farm in Cambridgeshire

### Brass Nozzle



Description	Thread Size	Part No.	Price (£)
Nozzle - Brass Double-Slit 2mm	½" M BSP	BRP002	£11.30
Nozzle - Brass Double-Slit 3mm	½" M BSP	BRP003	£11.30

### RG4 Nozzle



Description	Thread Size	Part No.	Price (£)
RG4 Green	½" M BSP	TBP9562540G	£2.90
RG4 Red	½" M BSP	TBP9562540R	£2.90
RG4 Yellow	½" M BSP	TBP9562540Y	£2.90
RG4 Black	½" M BSP	TBP9562540B	£2.90

### Flow Control Valve



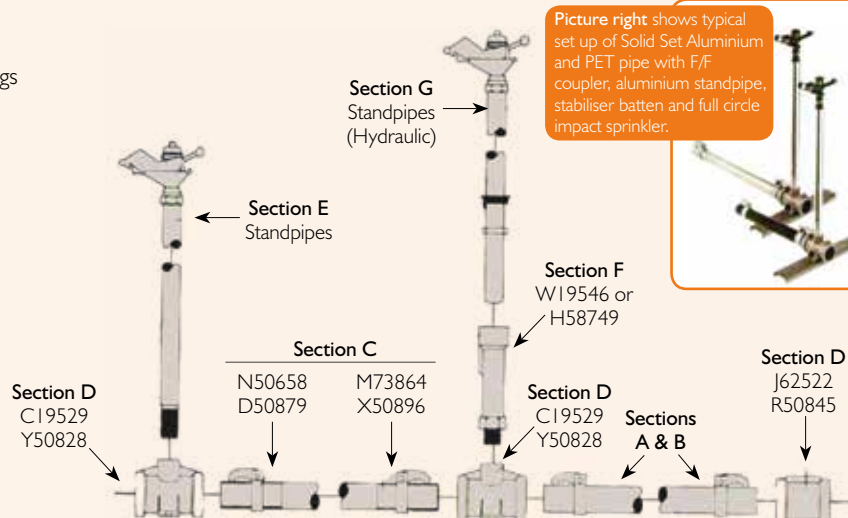
Description	Thread Size	Part No.	Price (£)
Mini Lever Ball Valve	½" M/F BSP	BVM015	£4.75

## General Specifications

- Polyethylene Pipes with Polyethylene and Aluminium Fittings
- 50mm or 63mm pipe diameters
- Pipe lengths of 6, 7½, 9 or 10½ metres
- Male/Male pipe work with hooks and bands
- 18 x 18 or 18 x 24 metre spacings
- Typical example of solid set equipment shown below

### Notes - 63mm diameter Pipe work:

Maximum Number of Sprinklers per Lateral Line	18
Sprinkler Spacing	18 x 18m
Sprinkler Discharge (each)	1.6 m³/hr



## Sections A & B

### A. Aluminium Pipes - 2" diameter - without band and hook assemblies

Description	Pack	Truck/Packs	Part No.	Price (L)
ALU 2" x 6m	100	24	ASS-B52303	£34.34
ALU 2" x 9m	100	12	ASS-H52286	£48.90
ALU 2" x 10.5m	100	12	ASS-X68997	£57.20

### B. Polyethylene Pipes - c/w inserts and band and hook assemblies

Description	Pack	Truck/Packs	Part No.	Price (L)
PET 50mm x 6m	200	12	ASS-G53343	£16.20
PET 50mm x 7.5m	100	6	ASS-A53360	£18.10
PET 50mm x 9m	100	6	ASS-T53377	£19.70
PET 50mm x 10.5m	100	6	ASS-M53394	£21.65
PET 63mm x 6m	100	16	ASS-T51100	£27.60
PET 63mm x 7.5m	100	8	ASS-C76753	£30.90
PET 63mm x 9m	100	8	ASS-G51066	£34.75
PET 63mm x 10.5m	100	8	ASS-A51083	£38.10

## Section C

Description	Part No.	Price (L)
PVC Insert, 50mm PET pipe (2 required)	ASS-M73864	£0.50
PVC Insert, 63mm PET pipe (2 required)	ASS-X50896	£0.85
Band & Hook 50mm, ALU/PET (2 required)	ASS-N50658	£2.75
Band & Hook 63mm, PET (2 required)	ASS-D50879	£4.10

## Section D

Description	Part No.	Price (L)
50mm Coupling (F/F) with 1" outlet	ASS-C19529	£10.15
50mm Coupling (F/F) without outlet	ASS-J62522	£6.80
50mm End of Line Pipe (less Band/Hook)	ASS-B58766	£19.90
50mm Fem Coupling x 1½" M BSP	ASS-Y93769	£7.60
63mm Coupling (F/F) with 1" outlet	ASS-Y50828	£14.35
63mm Coupling (F/F) without outlet	ASS-R50845	£11.40
63mm End of Line Pipe (less Band/Hook)	ASS-J50930	£16.45
63mm Fem Coupling x 1½" M BSP	ASS-K50862	£8.55

## Section E

Description	Part No.	Price (L)
Standpipe 0.50m, 1" M x ¾" F BSP	ASS-CH316800	£8.20
Standpipe 0.75m, 1" M x ¾" F BSP	ASS-CH316810	£9.65
Standpipe 1.0m, 1" M x ¾" F BSP	ASS-CH316820	£11.40
Standpipe 2.20m, 1" M x ¾" F BSP	ASS-CH316860	£18.75

## Section F

### Standpipes - Hydraulic & Mechanical (1" Male BSP)

Description	Part No.	Price (L)
50mm Standpipe Cplr 1" M BSP (Hyd)	ASS-W19546	£9.95
50mm Standpipe Cplr 1" M BSP (Mech)	ASS-H58749	£12.70

## Section G

### Hydraulic Aluminium Standpipes

(with Key for Standpipe Coupler and ¾" Female Thread)

Description	Part No.	Price (L)
Standpipe 0.50m	ASS-M96910	£9.55
Standpipe 2.20m	ASS-S15380	£20.35
Locking Ring (1 No. Per Standpipe)	ASS-S18830	£0.85

## Stabilising Battens & Equipment

Description	Part No.	Price (L)
Alu Stabiliser Batten 400 x 60mm	ASS-X93837	£5.20
Alu Stabiliser Batten 800 x 60mm	ASS-D93820	£10.55
Galv Stabiliser Batten 400 x 60mm	ASS-K55991	£3.80
Galv Stabiliser Batten 800 x 60mm	ASS-X56025	£6.95
Batten Bolts (2 per stabiliser)	ASS-R41944	£0.25

## Solid Set Fittings

Description	Part No.	Price (L)
50mm Fem Cplr x 1½" M BSP	ASS-Y93769	£7.60
63mm Fem Cplr x 1½" M BSP	ASS-K50862	£8.55
50mm Inline Tee (M/F/F)	ASS-G55804	£49.00
50mm Inline Tee (F/F/F)	ASS-M62709	£41.90
50mm x 90° Bend (M/F)	ASS-N55787	£43.35
50mm x 90° Bend (F/F)	ASS-T62692	£40.15
FMLD 3" Cross x 1½" M/M BSP	ASS-Y50828	£85.30
FMLD 4" Cross x 1½" M/MBSP	ASS-R50845	£108.90
FMLD 5" Cross x 1½" M/MBSP	ASS-J50930	£117.95
FMLD 4" Cross x 3" M/MBSP	ASS-FAB4334	£121.30
FMLD 5" Cross x 2" M/MBSP	ASS-FAB5225	£143.30
FMLD 5" Cross x 3" M/MBSP	ASS-FAB5335	£143.30
FMLD 5" Tee Male x 3" M BSP	ASS-FAB5305	£143.30

## Irrifrance Solid Set Spare Parts

Description	Part No.	Price (L)
2" Press-In Female Coupler (less Seal)	ASS-B55753	£7.85
2" Press-In Male Coupler	ASS-N67655	£13.50
Latch Spring - Steel	ASS-V64970	£0.85
Coupling Hook 50mm	ASS-C96740	£0.80

### Full Circle Impact Sprinkler

- Unirain F46 sprinkler c/w 2 nozzles
- ¾" Male BSP thread
- 23° nozzle trajectory angle
- UV radiation protected acetal resin materials
- Fulcrum pin and springs in stainless steel
- Backturn lock between the sprinkler body and the bearing spring



Description	Part No.	Price (£)
F46 Full Circle Sprinkler	ASS-Z52646	£7.65
Nozzle 5/32" - Brass Long Radius	ASS-Z58994	£0.75
Nozzle 1 1/64"	ASS-B10765	£0.75
Nozzle 3/16"	ASS-Z48115	£0.75
Nozzle 13/64"	ASS-Q63126	£0.75
Nozzle 7/32"	ASS-P39734	£0.75
Nozzle 5/32" - Plastic Long Radius	ASS-N65056	£0.40
Nozzle 1 1/64"	ASS-G65073	£0.40
Nozzle 3/16"	ASS-A65090	£0.40
Nozzle 13/64"	ASS-T65107	£0.40
Nozzle 7/32"	ASS-M65124	£0.40
Nozzle 3/32" - Plastic Spreader	ASS-F65141	£0.30
Nozzle 1/8"	ASS-Z65158	£0.30
Plastic Plug	ASS-G51388	£0.10

### F46 Sprinkler Performances c/w 5/32" & 3/32" nozzles

Pressure		Flow	Radius	Flow	Radius
PSI	Bar	m³/hr	(m)	US GPM	(ft)
<i>20</i>	<i>1.36</i>	<i>0.98</i>	<i>12.4</i>	<i>4.31</i>	<i>40.7</i>
<i>25</i>	<i>1.70</i>	<i>1.10</i>	<i>13.0</i>	<i>4.83</i>	<i>42.7</i>
30	2.04	1.20	13.6	5.28	44.6
35	2.38	1.29	14.0	5.71	45.9
40	2.72	1.39	14.3	6.11	46.9
45	3.06	1.47	14.5	6.48	47.6
50	3.40	1.55	14.6	6.82	47.9
55	3.74	1.62	14.8	7.15	48.6
60	4.08	1.70	14.9	7.47	48.9
65	4.42	1.77	15.1	7.78	49.5
<i>70</i>	<i>4.76</i>	<i>1.84</i>	<i>15.2</i>	<i>8.08</i>	<i>49.9</i>
<i>75</i>	<i>5.10</i>	<i>1.90</i>	<i>15.4</i>	<i>8.37</i>	<i>50.5</i>
<i>80</i>	<i>5.44</i>	<i>1.96</i>	<i>15.5</i>	<i>8.65</i>	<i>50.9</i>

*Performances in italics are not recommended*

### Pressure Regulators

- 100% water tested for accuracy
- Versatile, accurate and reliable
- Suitable for applications including solid set, hand line and micro irrigation, centre pivots, etc.
- Precision moulded and hydraulically designed for consistent accuracy
- Maximum flow path resists plugging
- Handles severe pressure surges, without creating flow restrictions under working pressures
- Connection sizes: 1 ¼" x 1" F/F BSP (Hi-Flow)  
¾" F/F BSP (Lo-Flow)



Type	Flow Rate	Preset Operating		Max Inlet Pressure		Part No.	Price (£)
	L/Hr	PSI	Bar	PSI	Bar		
Hi-Flo	2271 - 7268	30	2	100	6.9	N18250	£18.00
Lo-Flo	454 - 4542	50	3.45	150	10.34	N18251	£18.00

Other pressure rated regulators are available, information on request.



## Diesel Pump Unit powered by JCB Dieselmax 444 Engine (84 Hp)

with lockable engine protection canopy, stainless steel warmth exchanger on pump suction, manual priming pump, no-flow switch, butterfly valve, high-rise gooseneck delivery and Idromop digital control panel with integral throttle controller

## Innovative Engine Pump Units: Fuel Saving up to 20% - Oil Saving 50%

- The JCB Dieselmax engine, when used with the warmth exchanger on the pump suction inlet (see details below), has one of the lowest fuel consumption rates currently available on today's market.
- JCB engines require oil changes every 500 working hours, lowering maintenance costs and reducing machine stops to a minimum.
- During its average life, an engine pump unit will consume oil and fuel equivalent to 12 times its cost.

## Specifications with JCB Engine

- JCB Dieselmax 444 Naturally Aspirated 4-cylinder engine, EPA Tier 2 rated
- Noise Output maximum rated 89 dBA@1 metre
- Rovatti horizontal, end suction multi-stage centrifugal pump (4-stage) with SAE flanging
- Heavy duty **bunded** tank chassis (650 litre capacity), two wheels, front and rear adjustable support jacks and removable drawbar for security
- Twin fuel hubs (right and left hand side), fuel level gauge
- Engine cooling by means of **Stainless Steel Warmth Exchanger** mounted on pump suction (see information right)
- Lockable Engine Protection Canopy
- Idromop control panel with integral throttle controller
- Warmth exchanger on pump suction with 133mm Bauer female coupler
- Wafer pattern butterfly valve and high-rise delivery gooseneck with 133mm Bauer female coupler
- Battery with cover
- Inspection lamp
- Fully guarded to CE standards and CE plated
- Painted Green
- Price for pump units are available on request as they can be built to customers individual requirement

## Innovative Low Consumption Engine-Pump Unit powered by JCB Engine



Warmth Exchanger mounted on the pump suction inlet and fitted with a no-flow switch

Engine cooling is achieved by means of a **Warmth Exchanger** made in AISI304 stainless steel, mounted on pump suction at the point where the cooling engine liquid moves. The temperature is maintained at a constant level by the engine's original thermostatic valve.

The **technological innovation** is in the design of the engine cooling system, which has replaced the traditional radiator-fan cooling system with water being sucked by the irrigation pump. With this method, the engine has at its disposal a large quantity of water (approx. 800-2400 litres/min) at a temperature of less than 18°C.

When compared to original cooling methods, this system **saves around 8% engine power** (which is usually absorbed by the fan), **8% fuel** and consequently **8% pollution emitted** from exhaust smoke.

It also results in a considerable **reduction in engine noise** and a decrease of warm exhausted air by 95% (from about 28,000 to 35,000 kcal/h).

To sum up the advantages of this new innovation against the technology used by the previous generation of JCB type engine with high performance pumps, we are now able to obtain low consumption engine-pump units and achieve considerable savings over the traditional ones.

Model	Engine Type	Engine Spec.	Continuous Power Rating KW(Hp) / rpm	Fuel Consumption g/kWh	Engine Displacement litres	Rovatti Pump	Engine RPM	Flow (l/min)	Flow (m³/hr)	Pressure (m/hd)	Absorbed Power (kW)	Pump Efficiency	Approx Fuel Used (l/hr)	Suction & Delivery	Equipment Price
MOP 207	JCB444 Dieselmax	4-Cylinder 63 kW (84 Hp)	42(56) / 1450	212	4.4	F33K 100-160/4E	1750	1600	96	108	34.9	81%	9.3	100mm & 80mm	Nett Prices on Request
			48(64) / 1750	223	4.4		1750	2000	120	96.8	39.2	81%	10.4		
			52(70) / 2000	225	4.4		2000	1600	96	146	49.6	77%	13.3		
							2000	2000	120	137	54.6	82%	14.6		



With Acoustic Canopy shown with suction extension, gooseneck delivery and control panel in enclosure

## Specifications with IVECO Engine

- IVECO Turbo-Charged 4-cylinder engine, Tier 2 rated
- Rovatti horizontal, end suction multi-stage centrifugal pump (3-stage) with SAE flanging
- Heavy duty **bunded** tank chassis (1000 litre capacity), two wheels, front and rear adjustable support jacks and removable drawbar for security
- Twin fuel hubs (right and left hand side), fuel level gauge
- Radiator guard, propeller fan guard and pusher-propeller engine cooling
- Lockable Acoustic Canopy
- Exhaust mounted inside acoustic canopy for quieter operation
- Noise output rated between 74 - 78 dB @ 1 metre
- Idromop control panel with integral throttle controller
- Wafer pattern butterfly valve and high-rise delivery gooseneck with 133mm Bauer female coupler
- Battery with cover
- Inspection lamp
- Fully guarded to CE standards and CE plated
- Painted Green
- Price for pump units are available on request as they can be built to customers individual requirement



Model Type	Engine Type	Engine Spec.	Fuel Cons g/kWh	Rovatti Pump	Engine RPM	Flow (l/min)	Flow (m³/hr)	Pressure metres	Absorbed Power (kW)	Pump Efficiency	Approx Fuel Used (l/hr)	Suction & Delivery	Equipment Price
MOP 110	Iveco N45-MSSD-00	4-Cylinder 100 Hp (74 kW)	218	F33K 100H/3E	1600	1000	60	107.2	25.9	67%	6.7	100mm & 80mm	Nett Prices on Request
			220		1600	2000	120	85.9	38.1	73%	9.9		
			225		1800	1000	60	136.1	34.5	64%	9.0		
					1800	2000	120	116	50.9	74%	13.3		
					2000	1000	60	169.1	45	61%	12.0		
					2000	2000	120	150	65.8	74%	17.6		



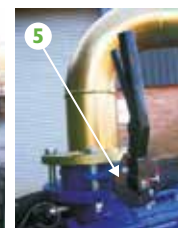
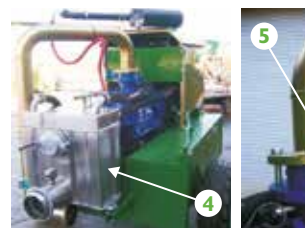
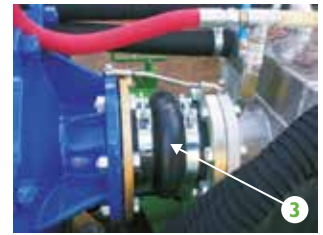
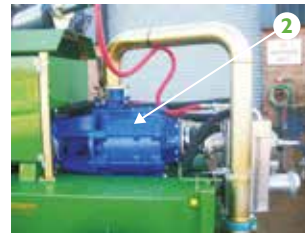
- Integral throttle control for use when operating more than one hose reel irrigator
- Easy push button operation
- Key code access (no start key required)
- LCD display shows RPM • Pressure • Run Time • Oil Pressure • Engine Temperature • Battery Level • Engine Run Time

- Manual/Automatic/Program operation
- Set 99 individual programs
- Hours run/duration function
- Set pressure function
- Time filling pipes function
- Minimum system pressure function
- Adjustable positive tolerance function

- Signalling late out of tolerance function (set a time limit for the engine to re-adjust speed/flow after one hose reel finishes irrigation run)
- Maximum engine RPM and system pressure
- Adjustable acceleration and deceleration rates
- Adjustable warm-up and engine cooling time
- 24-hour real time clock



## Diesel Engine Pump Unit with capacity to power 3 large irrigators

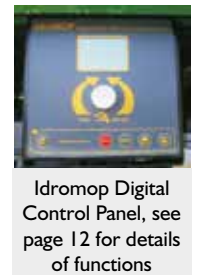


1. RM MOP 216 diesel pump unit complete
2. 3-stage pump direct flanged to engine
3. Shock absorbing coupler between pump and warmth exchanger

4. Stainless Steel Warmth Exchanger with integral no-flow switch
5. Wafer pattern DN125 butterfly valve on pump delivery
6. Exhaust primer equipment

- JCB444TAI Dieselmex 125Hp turbo-charged engine (rated 93 kW @2200 RPM)
- Engine is EPATII,EUSt2
- Engine intercooler
- Noise 89dBA@1m (at maximum rating)
- High flow rate pump suitable to operate 3 large hose reel irrigators at lower engine speeds
- Flanged 3-stage pump, model F3AP-125-175-A3
- **At 1520 RPM engine speed**, duty 160 m<sup>3</sup>/hr @ 117.9 m/hd, absorbing approximately 64.5 kW
- 1000 litre bunded tank on two-wheel axle
- Stainless steel warmth exchanger on pump inlet (no engine radiator/fan cooling required) - **this saves fuel and energy**

- Integral no-flow switch on pump/warmth exchanger inlet
- User-friendly **Idromop** digital control panel with integral throttle controller and pressure transducer
- Lockable doors for security
- Mechanical jacks front and rear
- Removable front drawbar
- Fuel level gauge and 2 fuel filler caps
- Bauer female coupler on inlet and outlet
- Butterfly valve and high-rise gooseneck on delivery side
- Exhaust primer
- Light and battery



Idromop Digital Control Panel, see page 12 for details of functions

### Innovative Low Consumption Engine-Pump Unit powered by JCB Engine



Warmth Exchanger on Pump Inlet

Engine cooling is achieved by means of a **Warmth Exchanger** made in AISI304 stainless steel, mounted on pump suction at the point where the cooling engine liquid moves. The temperature is maintained at a constant level by the engine's original thermostatic valve.

The **technological innovation** is in the design of the engine cooling system, which has replaced the traditional radiator-fan cooling system with water being sucked by the irrigation pump. With this method, the engine has at its disposal a large quantity of water at a temperature of less than 18°C.

When compared to original cooling methods, this system **saves around 8% engine power** (which is usually absorbed by the fan), **8% fuel** and consequently **8% pollution emitted** from exhaust smoke.

It also results in a considerable **reduction in engine noise** and a decrease of warm exhausted air by 95% (from about 28,000 to 35,000 kcal/h).

To sum up the advantages of this new innovation against the technology used by the previous generation of JCB type engine with high performance pumps, we are now able to obtain low consumption engine-pump units and achieve considerable savings over the traditional ones.

### Innovative Engine Pump Units: Fuel Saving up to 20% - Oil Saving 50%

- The JCB Dieselmex engine, when used with the warmth exchanger on the pump suction inlet (see details below), **has one of the lowest fuel consumptions currently available on today's market.**
- JCB engines require oil changes every 500 working hours, lowering maintenance costs and reducing machine stops to a minimum.
- During its average life, an engine pump unit will consume oil and fuel equivalent to 12 times its cost.

Model	Engine Type	Engine Spec.	Engine Speed (RPM)	Fuel Consumption g/kWh	Engine Displacement litres	Pump Model	Engine RPM	Flow (l/min)	Flow (m <sup>3</sup> /hr)	Pressure (m/hd)	Absorbed Power (kW)	Pump Efficiency	Approx Fuel Used (l/hr)	Suction & Delivery	Equipment Price
MOP 216	JCB444 Dieselmex	93 kW (125 Hp)	1400	205	4.4	F3AP 125-175-A3	1520	2166	130	129	58.2	78%	14.4	DN175 (PN16)	Price on request
			1600	208	4.4		1520	2666	160	117.9	64.5	80%	16	DN125 (PN25)	

**Cost  
Effective  
Irrigation**

## RM Speedy Rain mini hose reel irrigators

A range of 4 small hose reel machines with low pressure requirements offering a cost effective irrigation solution.

Customers for this equipment include:

Football Clubs • Rugby Clubs • Universities • Colleges • Schools • Golf Courses • Local Authorities • Riding Schools  
• Stud Farms • Market Gardeners



**Piston drive 25/50** shown working on a football pitch of non-league football club



**Piston drive 32/90** shown working on a school rugby pitch

**Advisory Notice:** When the machine is in normal operation, the piston expels a small amount of water through the exhaust hose. This can result in some standing water and may not be suitable for some applications.

The 25/50 model has no mechanism to guide the hose onto the drum and requires occasional supervision and adjustment when winding in.

## Piston drive models

Speedy Rain piston drive reels offer a cost-effective solution for irrigating:

- Bowling greens and cricket pitches
- Small scale sports turf
- Landscape and amenity areas
- Large gardens
- Equestrian and riding arenas

## Specifications

- Low maintenance Piston drive mechanism
- Variable rewind speeds
- Low pressure operation:  
from 1.5 bar (200P model)  
from 3.5 bar (300P model)
- Two hose sizes available:  
25mm x 50 metres  
32mm x 90 metres
- Supplied with part circle sprinkler mounted on sled-base (25/50 model) or 2-wheel adjustable width trolley (32/90 model), flexible connection hose with 'geka' coupler and automatic shut-down valve



**Turbine drive 40/130** shown working on a training pitch at a Championship football club



**Turbine drive 50/160**

## Turbine drive models

## Specifications

- Variable rewind speeds
- Low pressure operation from 6 bar after the turbine (the turbine loses approximately 1.5 to 2 bar from entry to exit depending on the flow rate)
- Two hose sizes available: 40mm x 130 metres (405 model)  
50mm x 160 metres (505 model)
- Supplied with part circle sprinkler mounted on 2-wheel adjustable width trolley, flexible connection hose with 50mm Bauer male coupler and automatic shut-down valve

Speedy Rain		200P	300P	405	505
Hose Diameter	mm	25	32	40	50
Hose Length	mtr	50	90	130	160
Drive Mechanism		Piston	Piston	Turbine	Turbine
Discharge	m <sup>3</sup> /hr	0.7 - 2.3	1 - 6	4 - 11	5 - 17
Pressure	bars	1.5 - 3	3.5 - 5	4.5 - 8	4.5 - 8
Rewind Speed	mtr/hr	10 - 40	10 - 40	10 - 50	5 - 50
Wetted Diameter	mtr	20 - 28	24 - 30	28 - 36	32 - 54
Price (L)		£1,100	£2,100	£4,195	£4,985

Description	Part No.	Price (L)
8 metre boom	BHL008	£345.00

## Optional - Spray Boom

Speedy Rain turbine drive reels can be supplied with an 8 metre irrigation boom which connects to raingun trolley in place of impact sprinkler.



Literature and full hydraulic charts available on request  
Videos available on the Javelin YouTube channel



### Rain-Mobile Self-Travelling Sprinkler

Self-traveller ideal for sports grounds, public parks, greens, large turfed areas, golf courses, nurseries, agricultural use, etc. The 4-wheel model is particularly suitable for newly seeded and soft, as well as undulating, ground surfaces.

#### Features

- Easy to use, can be ready for operation in approximately 15 minutes
- Constant travel speed, independent of flow range at the sprinkler nozzle
- Automatic shut-off at end of irrigation run
- Automatic shut-off in case of interrupted water flow (i.e. twisted hose, obstruction or insufficient length)
- Maintenance free turbine and gearbox
- 135 metres of steel cable
- Coverage between 34 and 38 metres (using standard 1/4" nozzle on full circle sprinkler)
- Full circle sprinkler as standard, adjustable part circle sprinkler on request
- 3/4" female connection at rear of machine
- Ideal for use with 100 metres of 1" flexible hose (Tricoflex, etc.) - see page 34 for information and prices
- Operates from as low as 2.5 bar pressure

#### Specifications

- Wetted width: maximum 46 metres
- Length Coverage: maximum 183 metres
- Discharge with standard 1/4" nozzle: 3.0 - 4.1 m<sup>3</sup>/hr (50 - 68 litres/min)
- Box dimensions: 78cm x 46cm x 38cm
- Packed weight: 22 Kg

#### Notes

- Maximum performance is achieved after 30 hours initial run-in period

Description	Part No.	Price (Q)
Rain-Mobile Self-Traveller	TCRM100	£975.00

Nozzle Size	5.6mm (7/32")		6.0mm (15/64")		6.4mm * (1/4")		7.2mm (9/32")		8.0mm (5/16")		8.8mm (11/32")		9.5mm (3/8")	
Pressure At Nozzle Bar	Width Metres	Ouput m3/hr	Width Metres	Ouput m3/hr	Width Metres	Ouput m3/hr	Width Metres	Ouput m3/hr	Width Metres	Ouput m3/hr	Width Metres	Ouput m3/hr	Width Metres	Ouput m3/hr
3.0	32	2.3	33	2.6	34	3.0	36	3.6	36	4.4	37	5.2	38	6.0
4.0	33	2.5	34	2.8	35	3.3	37	4.1	38	4.9	40	5.8	41	6.7
5.0	34	2.9	35	3.1	36	3.6	38	4.7	40	5.6	41	6.7	43	7.8
6.0	35	3.2	36	3.4	37	3.8	39	5.1	42	6.3	43	7.8	45	8.6
7.0	36	3.5	37	3.7	38	4.1	40	5.4	43	6.8	44	8.2	46	9.0

\* standard nozzle size is 1/4"

### Pope Water Tractor

Automatic watering system providing an even and controlled distribution. Travels along ordinary 1/2" garden hose. Works from garden tap.

#### Features

- Robust construction
- Covers a range up to approximately 30-35 metres
- Wetted diameter up to 10 metres (35 ft)
- Travel Speed up to 12 metres/hour (depending on the angle of spray nozzles)
- Automatic shut-off at end of run
- Even distribution of 9 litres/minute
- Working Pressure: 2 - 3 psi (0.13 - 0.21 bar)
- Ideal for use with 1/2" Tricoflex hose - see page 34 for information and prices

#### Versatile and Practical

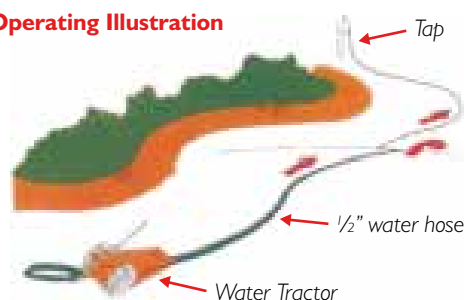
- The Water Tractor moves by itself following the hose up and down slopes and around curves over a distance of up to approximately 35 metres
- With the hose attached to the Water Tractor and starting at the furthest point from the tap, the hose is layed out using large curves, not tight bends
- The Water Tractor front guide wheels are then positioned on the hose pointing towards the tap, leaving the trailing hose looped behind the rear wheels
- See the Operating Illustration (left) for guidance, or view PDF file on Javelin website

Description	Part No.	Price (Q)
Water Tractor	T1001	£79.50



**Ideal for Garden Watering**

#### Operating Illustration



Full specifications and literature illustrating these products are available on request



Javelin Irrigation Systems Ltd is the **main UK importer for the complete Komet range** of slow return rainguns and sprinklers. Details of the rainguns for various applications can be seen below.



## Irrigation

**Twin rainguns** have a unique drive system which allows a much better stream diffusion over the whole pressure range.

**Vari-Angle** models give an improved uniformity in windy conditions. Fixed angle also available.

### Dynamic Intermittent Jet-Breakers

- Influences the distribution profile and it is possible to adapt it for different applications at all pressures
- Increase the stream diffusion and provides a gentler droplet size thus reducing crop damage
- The throw radius will be slightly reduced when using a jet-breaker
- One, or occasionally two, jet-breaker(s) can be mounted on the drive arm



## Dust Suppression

**Hydrojet AP** rainguns are designed to provide immediate and efficient dampening, wetting of large areas with minimal application rates.

The high frequency drive mechanism provides a fine water curtain and gives excellent water distribution, thus avoiding erosion and run-off. Standard trajectory angle (44°) and vari-angle (46-28°) models available.



## Dust Suppression - Corrosion Protected

**Hydrojet AP-CP** models have a Corrosive Protection which allows for the use of more aggressive industrial liquids.

## Slurry & Waste Water Disposal

**Trigon 105** designed specifically for waste water applications, featuring a free flow passage to prevent clogging of liquids containing suspended particles

The most common applications for the Trigon 105 include waste water systems, effluent waters from food processing plants, treated manure and many others. **It is also salt water resistant.**

**Twin WW** are as per the standard Twin/Plus series but with several internal vanes removed for easier passage of dirty waters.



## Leach Mining

The **Trigon 112** is the only big volume raingun for efficient leach mining.

Materials and components have been carefully selected in order to withstand the corrosive media used.

It allows to safely leach side slopes of heaps otherwise inaccessible, maximising the result of the leach process. On flat leach terrain, the use of the Trigon raingun reduces labour.

Raingun Model	Suitable Application	Output (m³/hr)	Radius (metres)	Pressure (Bars)	Nozzle Sizes (mm)	Base Connection	Vari-Angle Trajectory	Price (£)	Fixed Angle Trajectory	Price (£)
Twin 101/Plus	Irrigation	8 - 55	26 - 54	2 - 6.5	12 - 24	Flange	10 - 28°	£890.00	24°	£690.00
Twin 140/Plus	Irrigation	14 - 90	28 - 63	2 - 7	16 - 30	Flange	10 - 28°	£1,016.00	24°	£840.00
Twin 160/Pro	Irrigation	26 - 120	40 - 69	3 - 7	20 - 35	Flange	16 - 28°	£1,275.00	24°	£965.00
Twin 202/Pro	Irrigation	26 - 159	40 - 71	3 - 7	20 - 40	Flange	16 - 28°	£1,345.00	-	£1,060.00
Hydrojet API01	Dust	13 - 73	30 - 54	3 - 7	14 - 26	2" BSP F	46 - 28°	£965.00	44°	£760.00
Hydrojet API01-CP	Dust	13 - 73	30 - 54	3 - 7	14 - 26	2" BSP F	46 - 28°	£1,345.00	44°	£1,055.00
Hydrojet API40	Dust	22 - 111	35 - 63	3 - 7	18 - 32	Flange	46 - 28°	£1,120.00	44°	£925.00
Hydrojet API40-CP	Dust	22 - 111	35 - 63	3 - 7	18 - 32	Flange	46 - 28°	£1,560.00	44°	£1,290.00
Trigon 105	Slurry	8 - 54	22 - 52	2 - 6	12 - 24	2" BSP F	10 - 26°	£825.00	-	-
Twin 101/WW	Slurry	8 - 55	26 - 54	2 - 6.5	12 - 24	Flange	10 - 28°	£965.00	24°	£760.00
Twin 160/WW	Slurry	26 - 120	40 - 69	3 - 7	20 - 35	Flange	16 - 28°	£1,400.00	24°	£1,065.00
Trigon 112	Mining	8 - 54	22 - 52	2 - 6	12 - 24	2" BSP F	10 - 26°	£1,880.00	-	-

Description	Raingun type	Nozzle Sizes (mm)	Part No.	Price (£)
Nozzles - Taper Bore	Twin 101/140, 101WW, API01/140, Trigon 105	12-14-16-18-20-22-24-26-28-30	KG68024...	£11.50
Nozzles - Taper Bore	Twin 160/202, Twin 160 WW	17.5-20-22.5-25-27.5-30-32.5-35	KG6202ZN...	£11.50
Nozzles - Taper Bore	Trigon 112	12-14-16-18-20-22-24		£11.50
Jet-Breaker	Twin 101/140		KG68027	£57.40
Jet-Breaker	Twin 160/202		KG68028	£57.40



Taper-Bore Nozzle

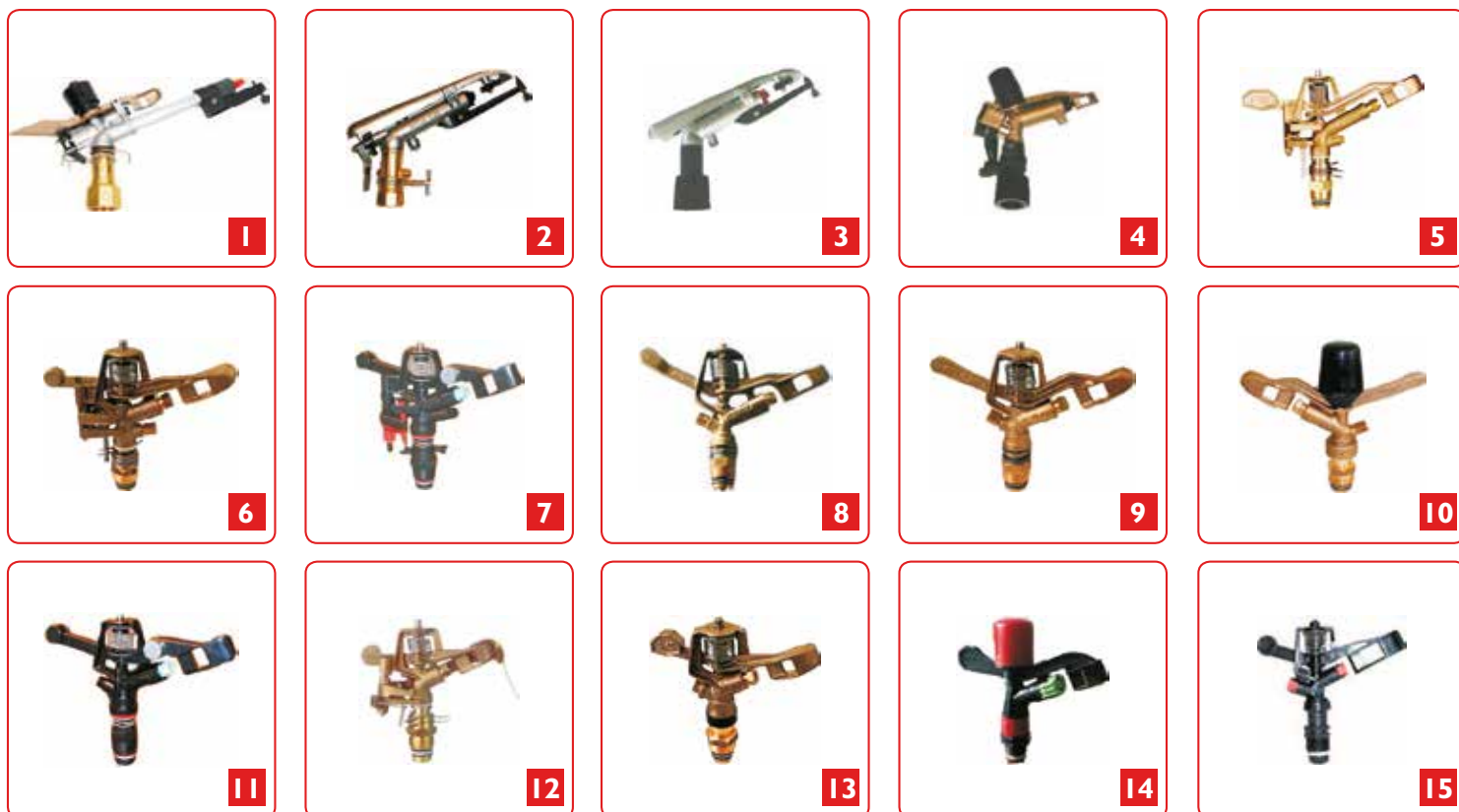
Dynamic Intermittent Jet-Breaker



Full details and nozzle data for each raingun is shown on our website [www.javelinirrigation.co.uk](http://www.javelinirrigation.co.uk), as a hard copy brochure or PDF file



A range of **low to medium volume impact sprinklers**, supplied as part circle or full circle models. Various materials of construction ranging from plastic to brass. Accessories available including extra nozzles, jet-breakers, stands, etc.



Ref	Sprinkler Type	Part Circle Full Circle	Bearing Size	Number of Nozzles	Nozzle Size	Supplied With	Radius (m)	Flow (m <sup>3</sup> /hr)	Pressure (Bars)	Part No.	Price (L)
1	Komet I63	PC/FC	1 1/2" F	1	8 - 16mm	Jet-Breaker	19.5 - 34.5	5 - 25	2 - 6	KG850163	£150.00
2	Komet R20	PC/FC	1 1/4" F	1	6 - 12mm	Jet-Breaker	16.5 - 26	2 - 11	2.5 - 4.5	KG760200	£130.00
3	Komet R8	FC	1 1/4" F	1	6 - 12mm	Jet-Breaker	14 - 26	1.5 - 11	1.5 - 4.5	KG750800	£80.00
4	Komet F43	PC/FC	1" F	1	4.5 - 7mm	Jet-Breaker	13.8 - 21.2	1.05 - 5	2 - 4.5	KG750430	£70.00
5	Iberia 38S	PC/FC	1" M	2	6.4 x 3.2mm	-	20.4 - 23	2.9 - 9	3.6 - 5.8	TCH10038S	£42.50
6	Iberia 26S	PC/FC	3/4" M	2	4.4 x 2.4mm	-	12.5 - 16	1.1 - 3.27	1.7 - 4.1	TCH10026S	£31.50
6	Iberia 26SD	PC/FC	3/4" M	2	4.4 x 2.4mm	Diffuser Pin	12.5 - 16	1.1 - 3.27	1.7 - 4.1	TCH10026SD	£33.50
7	Unirain P45LP	PC/FC	3/4" M	1	5/32"	Nozzle Plug	13.6 - 15.1	0.9 - 1.3	2 - 2.4	UR01731	£12.30
8	Iberia 40C	FC	3/4" M	2	4 x 2.4mm	-	14.9 - 21	1.32 - 4.65	2.5 - 5.4	TCH10040C	£15.00
9	Iberia 30C	FC	3/4" M	2	4 x 2.4mm	-	12.5 - 17.25	0.95 - 3.46	1.7 - 4.9	TCH10030C	£12.40
10	Iberia 30AH	FC	3/4" M	2	4 x 2.4mm	-	12.5 - 17.25	0.95 - 3.46	1.7 - 4.9	TCH10030AH	£14.80
11	Unirain F46	FC	3/4" M	2	5/32" x 3/32"	-	13.6 - 15.1	1.2 - 1.8	2 - 4.4	UR01461	£7.65
12	Iberia 21S	PC/FC	1/2" M	1	4mm	Diffuser Pin	11 - 13	0.57 - 1.59	1.4 - 3.4	TCH10021S	£18.50
13	Iberia 25C	FC	1/2" M	2	4.8 x 3.2mm	-	11 - 16.5	0.9 - 2.93	1.7 - 4.1	TCH10025C	£10.50
14	Unirain F26	FC	1/2" M	1	7/64"	Vane *	10.5 - 11.7	0.39 - 0.59	1.7 - 3.75	UR03901	£4.10
15	Queen Gil C150	FC	1/2" M	1	2.5, 3, 3.5mm	Nozzles/Plug	9 - 12	0.66 - 0.96	2 - 4	QG5501150	£2.15

\* When the Unirain F26 is operated without the nozzle vane, distribution is improved.

Accessories	Sprinkler	Size	Part No.	Price (L)
Nozzles	Komet I63	8-10-12-14-16mm	Various	£2.25
Jet-Breaker	Komet I63		KM23471	£5.00
Nozzles	Komet R20/R8	6-7-8-10-12mm	Various	£2.25
Jet-Breaker	Komet R20/R8		KG750820	£5.00
Nozzles	Komet F43	4.5-5-5.5-6-7mm	Various	£2.10
Jet-Breaker	Komet F43		KG75050	£3.20
Nozzles	Unirain P45L	1/8" - 9/64" - 3/16"	Various	£0.20



Full sprinkler details are available as a PDF file

**TEF-25HA****TEF3-50HA****TEW2-50HA**

The TEF and TEW2 are self-priming centrifugal, high head pumps powered by OHV Honda petrol Engines.

The TEF3-50HA and TEW2-50HA models feature three BSP male outlets (1 x 1 1/2" and 2 x 1") to enable two people to use the pump at the same time and still with high pressure.

Each outlet has a blanking cap to maximise pressure and conserve water when it is not needed.

The TEW2 is fitted with an electric start (with battery holder, but not battery) to ensure quick and effortless starting.

All models (except TEF-25HA) are housed within protective tubular steel, easy carry frames, and have oil alerts and anti-vibration rubber feet.

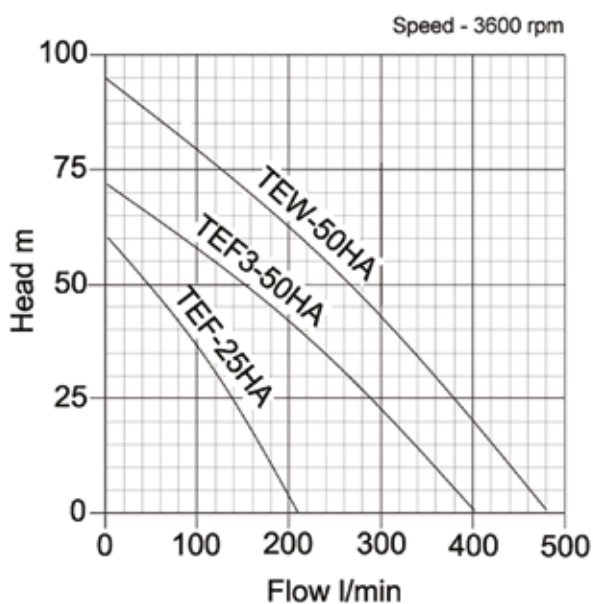
Maximum suction lift is 8 metres, however 6 metres, or less, is recommended.

These pumps can run all our turf equipment, especially the Speedy Rain models:

TEF-25A will run the Speedy Rain 25/50.

TEF3-50HA will run the Speedy Rain 32/90

TEW2-50HA will run the Speedy Rain 405/505.



Model	Inlet (mm)	Outlets (mm/BSPM)	Engine	Fuel	HP	Oil Alert	Max Flow (l/min)	Max Head (mtrs)	Price (Q)
TEF-25A	25	25	GXH50	Petrol	2.1	Yes	210	60	£395.00
TEF3-50HA	50	1" and 1 1/2"	GX160	Petrol	5.5	Yes	400	72	£710.00
TEW2-50HA	50	1" and 1 1/2"	GX270	Petrol	9.0	Yes	480	95	£1,450.00



**Fixed Tripod**



**Adjustable Tripod**

## Fixed Tripod

- Plated steel construction
- Fixed height 28" (70cm)
- 3/4" Female BSP connections
- Supplied with barbed hosetail coupler
- Suitable for use with smaller sprinklers

## Adjustable Tripod

- Steel Tripod
- Adjustable Central Riser Pipe, height 24" - 40" (60 - 100cm)
- 1" Male BSP connections
- Supplied with 90° plastic barbed hosetail coupler
- Suitable for use with smaller sprinklers

Picture (left) shows fixed tripod with Iberia 28S sprinkler (not supplied)

Picture (right) shows adjustable tripod with Komet F43 sprinkler (not supplied)

Tripod Type	Connection BSP	Reinforcing Arms	Weight Kg	Part No.	Price (L)
Fixed	3/4" Female	n/a	1.05	TVTRIP19	£12.45
Adjustable	1" Male	n/a	1.8	TVTRIP25A	£19.70

## Adjustable Tripod



- Heavy duty, galvanised steel construction
- Height Adjustable Legs
- With reinforcing arms for extra stability
- 1 1/2", 2" or 3" Male BSP connections
- Supplied with 90° plastic barbed hosetail coupler
- Suitable for use with larger sprinklers and rainguns

Picture shows a 2" tripod, with reinforcing arms, female socket, flange adapter and Komet Hydrojet API 40-44° raingun (not supplied)

Tripod Type	Connection Male BSP	Reinforcing Arms	Weight Kg	Part No.	Price (L)
Adjustable	1 1/2"	Yes	7.5	TVTRIP38R	£95.40
Adjustable	2"	Yes	9.8	TVTRIP50R	£106.50
Adjustable	3"	Yes	14	TVTRIP75R	£123.75

Raingun & Sprinkler details are on pages 16-17

## Sled 1"



## Sled 1 1/2"



## Sled Base

- Galvanised steel sled base with integral riser
- Male BSP threaded connections
- The two larger models have drilled holes on base to provide strong connection to ground for extra stability
- Supplied with plastic BSP threaded hosetail coupler
- Suitable for use with small to medium sized sprinklers

Top Picture illustrates a 1" sled with integral riser and Komet F43 sprinkler (not supplied)

Bottom Picture illustrates 1 1/2" sled with integral riser and Komet 163 sprinkler (not supplied)

Connection Male BSP	Riser Height	Weight Kg	Part No.	Price (L)
3/4"	n/a	2	TVSLED19	£19.70
1"	30cm	3	TVSLED25	£25.75
1 1/4"	50cm	8.5	TVSLED32	£50.60
1 1/2"	50cm	8.5	TVSLED38	£50.60

## Raingun Trolleys



- Ideal for use with large impact sprinklers or rainguns
- Galvanised steel construction
- BSP threaded or Flanged top connection
- Horizontal inlet pipe, coupler supplied (if required, chargeable extra)
- Adjustable Wheel Centres
- Wheel weights for extra stability (optional, chargeable extra)
- Towing eye (optional, chargeable extra)

570GX Raingun Trolley c/w towing eye and Komet API 101 Hydrojet Raingun

Trolley Type	560GX	570GX
Wheel Centres (Approx)	1.02 - 2.60m	1.20 - 2.82m
Connection at Top	2" BSP Male	6-hole Flg
Tyre Height	18"	22"
For Use with	Rainguns	Rainguns
Part No.	GT560	GT570
Standard Trolley	£625.00 (L)	£710.00 (L)
Trolley with Towing Eye	£710.00 (L)	£795.00 (L)

## Accessories for connection to Tripods and Trolleys

Description	Part No.	Price (L)
Flange Adapter (6 Hole) x 2" M BSP thread	MPKI4223	£58.20
Rubber Gasket (for above flange)	MPY93401	£4.10
2" Fem/Fem Socket Galv	-	£13.15
3" x 2" Fem/Fem Socket Galv	-	£38.40

Accessories can be supplied as required for your specific application.



# Aluminium Pipes, Irrifrance AMS & Farmland (FMLD) Fittings



## Mainline Pipe

Aluminium alloy pipes c/w couplers

Diameter	Length	Weight per pipe	Working Pressure	Part No.	Price (L)
4" (101.6mm)	9 metres	9.3 Kg	14 bar	APA21160X	£POA
5" (127.0mm)	9 metres	12.9 Kg	12 bar	APX67962X	£POA



## AMS Coupler, Female and Male

(L)

AMS M 4"	AFX26056	£21.80
AMS M 5"	AFX94872	£27.95
AMS F 3" - less seal	AFA25852	£10.20
AMS F 4" - less seal	AFX69135	£13.50
AMS F 5" - less seal	AFK67928	£17.30



## AMS Seal Ring

(L)

Ring AMS 3"	AFX19018	£4.40
Ring AMS 4"	AFQ19035	£4.60
Ring AMS 5"	AFJ19052	£6.60

## AMS Spring

(L)

To fit all sizes	Latch Spring	AFH96607	£1.00
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## Valve Elbow

(L)

Farmland Female outlet with seal

Valve Elb 3" / FMLD 3" F	AFJ84119	£144.45
Valve Elb 4" / FMLD 4" F	AFP96889	£153.75
Valve Elb 5" / FMLD 4" F	AFK14867	£164.60
Valve Elb 5" / FMLD 5" F	AFZ78360	£178.60



## Valve Elbow

(L)

Extended for connection to underground mains

Valve Elb 4" / FMLD 4" F	AFS83345	£195.10
Valve Elb 5" / FMLD 5" F	AFZ83328	£248.40



## Valve Elbow

(L)

Bauer (lever coupler) Male outlet

Valve Elb 4" / LC M 4"	AFH40073	£183.90
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## Valve Insert

Without Stabiliser

(L)

Insert FMLD 3" / Valve 3"	AFQ84102	£127.65
Insert FMLD 4" / Valve 3"	AFW97263	£138.00
Insert FMLD 4" / Valve 4"	AFP54339	£147.30
Insert FMLD 5" / Valve 4"	AFA94645	£172.40
Insert FMLD 5" / Valve 5"	AFL78394	£197.50



## Valve Hydrant (Weld-on)

(L)

3" Hydrant Valve	AFJ38119	£81.00
4" Hydrant Valve	AFS35689	£89.25
5" Hydrant Valve	AFY78428	£112.20



## Valve Hydrant (Flanged PN16)

(L)

Flange 65mm x Valve 3"	£103.00
Flange 65mm x Valve 4"	£112.25
Flange 80mm x Valve 3"	£108.10
Flange 80mm x Valve 4"	£116.35
Flange 100mm x Valve 4"	£122.05
Flange 100mm x Valve 5"	£156.40
Flange 125mm x Valve 5"	£157.90

Flange is black and not galvanised



## Hydrant Pads & Spindles

(L)

Hydrant Pad 3"	AAF77610	£12.50
Hydrant Pad 4"	AAF77627	£14.45
Hydrant Pad 5"	AAFZ85007	£19.80
Hydrant Spindle 3"	AAFV45972	£19.40
Hydrant Spindle 4" & 5"	AAFV91167	£28.75



## Bend - 90° and 45°

(L)

Bend 90 FMLD 3"	AFH96906	£80.75
Bend 90 FMLD 4"	AFV96940	£93.15
Bend 90 FMLD 5"	AFN96957	£118.65
Bend 45 FMLD 3"	AFH75217	£65.20
Bend 45 FMLD 4"	AFN49715	£77.65
Bend 45 FMLD 5"	AFM56039	£103.10

## Couplers (Weld-on)

(L)



FMLD M 3"	AFL74369	£19.85
FMLD M 4"	AFR74420	£25.65
FMLD M 5"	AFY94804	£32.65
FMLD M 6"	AFZ74335	£43.90



FMLD F 3" - less seal	AFY75185	£15.55
FMLD F 4" - less seal	AFB74590	£18.65
FMLD F 5" - less seal	AFW74539	£27.95
FMLD F 6" - less seal	AFJ74505	£58.90

## Couplers (Hosetail)

(L)



FMLD M 4" x H/Tail 100 (4")	AFPI6159	£51.20
FMLD M 5" x H/Tail 100 (4")	AF70880	£75.60
FMLD M 5" x H/Tail 125 (5")	AFMHT5125	£113.20



FMLD F 4" x H/Tail 100 (4")	AFB16193	£62.10
FMLD F 5" x H/Tail 100 (4")	AFG33448	£76.95
FMLD F 5" x H/Tail 125 (5")	AFH5125	£85.05

Other sizes of hosetail couplers can be made to order on request, however, the hosetail will be raw painted and not galvanised.

## End Plug

(L)



Plug FMLD M 2"	AFS79251	£28.00
Plug FMLD M 3"	AFD96787	£34.95
Plug FMLD M 4"	AFX96804	£42.15
Plug FMLD M 5"	AFQ96821	£53.20

## Side Tee Coupler

(L)



Side Tee FMLD 3"	AFD97178	£97.00
Side Tee FMLD 4"	AFX97195	£119.90
Side Tee FMLD 5"	AFX94458	£245.00

## Reducers & Increases

(L)



Reducers - Male to Female

FMLD M 4" - F 3"	AFF18865	£43.20
FMLD M 5" - F 4"	AFS18899	£57.80



Increases - Male to Female

FMLD M 4" - F 5"	AFE16012	£95.15
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## Sealing Ring

(L)



Ring FMLD 2"	AFP52591	£3.90
Ring FMLD 3"	AFZ83006	£4.40
Ring FMLD 4"	AFR82700	£4.90
Ring FMLD 5"	AFS83023	£6.50
Ring FMLD 6"	AF67004	£13.75

It is the sole responsibility of the purchaser to ensure that all pipes and fittings are compatible and operationally sound.





## Extruded aluminium pipes with cast aluminium band and steel latch hook

Diameter	Ø	2"	3"	4"	5"	6"
Wall Thickness	mm	0.9	1.0	1.18	1.3	1.42
Length	mtr	9	9	9	9	9
Weight	Kg/Mtr	0.382	0.64	1.009	1.391	1.825
Working Pressure	Bar	10	12	12	12	14



### Mainline Pipe

(L)

9 metre length aluminium alloy pipe c/w couplers

RW 3" Alu 9m	CRW000039	£60.00
RW 4" Alu 9m	CRW000049	£83.00
RW 5" Alu 9m	CRW000059	£113.00



### Valve Elbow

(L)

Valve Elbow 3"/RW 3" F	CRW200033	£99.00
Valve Elbow 4"/RW 4" F	CRW200044	£128.85
Valve Elbow 4"/RW 5" F	CRW200045	£172.15
Valve Elbow 5"/RW 5" F	CRW200055	£166.05



### Valve Insert

(L)

Ins RW 3"/Valve 3"	CRW300033	£110.00
Ins RW 4"/Valve 4"	CRW300044	£199.00
Ins RW 5"/Valve 4"	CRW300054	£175.00
Ins RW 5"/Valve 5"	CRW300055	£265.00



### Valve Hydrant (Weld-on)

(L)

3" Hydrant Valve (Alu)	I00003A	£79.85
3" Hydrant Valve (Galv)	I00003	£52.00
4" Hydrant Valve (Galv)	I00004	£62.00
5" Hydrant Valve (Galv)	I00005	£72.00



### Valve Hydrant (Flanged PN16)

(L)

Flange 65mm x Valve 3"	-	£77.45
Flange 65mm x Valve 4"	-	£87.45
Flange 80mm x Valve 3"	-	£80.80
Flange 80mm x Valve 4"	-	£90.80
Flange 100mm x Valve 4"	-	£97.00
Flange 100mm x Valve 5"	-	£107.00
Flange 125mm x Valve 5"	-	£122.80

Flange is black and not galvanised



### Hydrant Pads & Spindles

(L)

Hydrant Pad 3"	CRW50103	£10.50
Hydrant Pad 4"	CRW50104	£15.25
Hydrant Spindle 3", 4" & 5"	CRW50105	£28.00



### Bend - 90° and 45°

(L)

Bend 90 RW 3"	CRW00610	£40.85
Bend 90 RW 4"	CRW00800	£77.55
Bend 90 RW 5"	CRW00900	£101.00
Bend 45 RW 3"	CRW00605	£40.00
Bend 45 RW 4"	CRW00700	£62.00
Bend 45 RW 5"	CRW00850	£81.80



### Reducers & Increasers

(L)

Reducers - Male to Female

RW M 4" - F 3"	CRW40134	£40.00
RW M 5" - F 4"	CRW40145	£62.00
RW M 6" - F 5"	CRW40156	£78.00

Increaser - Male to Female

RW M 3" - F 4"	CRW40034	£54.80
RW M 4" - F 5"	CRW40045	£69.45
RM M 5" - F 6"	CRW40056	£86.40

### Male Coupler

(L)

Band and Hook



RW M 3"	CRW00003	£9.30
RW M 4"	CRW00004	£11.10
RW M 5"	CRW00005	£13.50
RW M 6"	CRW00006	£16.00

Weld On (Aluminium)



RW M 3"	CRW10800	£9.50
RW M 4"	CRW10900	£13.35
RW M 5"	CRW10950	£16.00
RW M 6"	CRW11000	£22.95

### Female Coupler

less Seal

(L)

Weld On (Aluminium)



RW F 3"	CRW10500	£8.60
RW F 4"	CRW10600	£12.30
RW F 5"	CRW10700	£15.20
RW F 6"	CRW10750	£18.00

### Hosetail Coupler

Male and Female hosetail couplers can be found on page 20 (Irrifrance Farmland {FMLD} fittings).

The FMLD female will accept the RW male.

The FMLD male is longer than the RW male so needs to be cut shorter to be compatible with the RW female.

Please order by FMLD Part Number but specify RW so that the male can be cut to pattern.



### End Plug

(L)

Plug RW M 3"	CRW00400	£19.50
Plug RW M 4"	CRW00500	£25.60
Plug RW M 5"	CRW00600	£30.00



### Side Tee Coupler

(L)

Side Tee RW 3"	CRW10003	£61.20
Side Tee RW 4"	CRW10100	£67.90
Side Tee RW 5"	CRW10200	£88.50



### End Tee Coupler

(L)

End Tee RW 3"	CRW10250	£61.30
End Tee RW 4"	CRW10300	£68.50
End Tee RW 5"	CRW10400	£93.00



### Pipe Seals

(L)

Seal RW 3"	CRW00100	£2.30
Seal RW 4"	CRW00200	£3.15
Seal RW 5"	CRW00300	£4.60
Seal RW 6"	CRW00306	£5.30

*It is the sole responsibility of the purchaser to ensure that all pipes and fittings are compatible and operationally sound.*



**Heavy Duty Bauer compatible pipes** are manufactured from the highest grade of steel strip to give a uniform wall thickness that is only available in a quality product. The manufacturing process uses the latest cold drawn procedures coupled with automated electronically controlled induction welding techniques.

**Call for  
Special  
ex-stock  
prices**

**Pipes &  
Fittings  
available  
ex-stock**

- Each pipe, complete with coupling, is hot dipped galvanised in vertical tanks
- Hot dip galvanisation in high grade zinc (99.995%), coating thickness between 0.05mm and 0.1mm
- Pipework can be connected even if the couplings are not aligned as the ball and socket principle allows, in most sizes, for a 30° articulation in all directions, when using the Bauer type system
- With just a few simple hand movements the fittings can be secured coupled/uncoupled - no tools are required
- Bauer compatible fittings give a positive connection that is suction and pressure tight up to 20 bar
- All **galvanised** Female fittings are supplied complete with rubber seal
- Raw Female fittings are supplied without rubber seal

## Galvanised Steel Pipe, in 6 metre lengths, with Bauer male/female couplers

Coupling Size	Pipe Ø	Wall Thickness (after galvanisation)	Working Pressure	Pipe Weight (approximate)	Part Number	Price (L)
50mm	50mm	0.8mm	20 bar	6.9 Kg	M6020506	£61.00
76mm	80mm	0.8mm	20 bar	11.1 Kg	M6020766	£71.00
108mm	100mm	0.9mm	12 bar	20.7 Kg	M6021086	£106.00
133mm	120mm	1.0mm	12 bar	28.4 Kg	M6021336	£137.00
159mm	150mm	1.1mm	12 bar	37.5 Kg	M6021596	£182.00
194mm	200mm	1.3mm	12 bar	53.0 Kg	M6021946	£355.00

### Female Hosetail Coupler

(L)



50mm F x 50mm HT	M631050050	£6.20
76mm F x 75mm HT	M631076076	£9.20
108mm F x 100mm HT	M631108100	£15.70
133mm F x 125mm HT	M631133125	£24.80
159mm F x 150mm HT	M631159150	£28.20
194mm F x 200mm HT	M631194200	£58.40

### Male Hosetail Coupler & Lever

(L)



50mm M x 50mm HT	M632050050	£13.90
76mm M x 75mm HT	M632076076	£22.00
108mm M x 100mm HT	M632108100	£37.50
133mm M x 125mm HT	M632133125	£49.90
159mm M x 150mm HT	M632159150	£65.70
194mm M x 200mm HT	M632194200	£127.80

### Female Coupler with M Thread

(L)



50mm F x 2" M BSP	M6240502	£8.60
76mm F x 3" M BSP	M6240763	£11.90
108mm F x 4" M BSP	M6241084	£19.40
133mm F x 5" M BSP	M6241335	£31.80

### Male Coupler with M Thread & Lever

(L)



50mm M x 2" M BSP	M6250502	£17.10
76mm M x 3" M BSP	M6250763	£27.00
108mm M x 4" M BSP	M6251084	£41.90
133mm M x 5" M BSP	M6251335	£60.90

### Bend 90°

(L)



50mm M/F Bend 90°	M609050	£22.70
76mm M/F Bend 90°	M609076	£32.30
89mm M/F Bend 90°	M609089	£43.30
108mm M/F Bend 90°	M609108	£62.70
133mm M/F Bend 90°	M609133	£90.10
159mm M/F Bend 90°	M609159	£114.20
194mm M/F Bend 90°	M609194	£205.10

### Bend 45°

(L)



50mm M/F Bend 45°	M610050	£22.70
76mm M/F Bend 45°	M610076	£32.30
89mm M/F Bend 45°	M610089	£43.30
108mm M/F Bend 45°	M610108	£62.70
133mm M/F Bend 45°	M610133	£90.10
159mm M/F Bend 45°	M610159	£114.00
194mm M/F Bend 45°	M610194	£205.80

### Side Tee Coupler

(L)



50mm M x M x F	M612050	£53.20
76mm M x M x F	M612076	£64.90
108mm M x M x F	M612108	£103.80
133mm M x M x F	M612133	£137.80
159mm M x M x F	M612159	£181.10

### End Tee Coupler

(L)



50mm M x F x M	M611050	£51.50
76mm M x F x M	M611076	£62.80
108mm M x F x M	M611108	£103.80
133mm M x F x M	M611133	£137.80
159mm M x F x M	M611159	£181.10

### 'Y' Coupler

(L)



50mm M x F x F	M616050	£POA
76mm M x F x F	M616076	£POA
108mm M x F x F	M616108	£89.60
133mm M x F x F	M616133	£112.80
159mm M x F x F	M616159	£POA

*It is the sole responsibility of the purchaser to ensure that all pipes and fittings are compatible and operationally sound.*



#### Conical Reducer F-M

(L)

76mm F x 50mm M	M638076050	£22.00
89mm F x 76mm M	M638089076	£32.10
108mm F x 76mm M	M638108076	£41.30
108mm F x 89mm M	M638108089	£44.50
133mm F x 108mm M	M638133108	£59.20
159mm F x 108mm M	M638159108	£64.90
159mm F x 133mm M	M638159133	£76.90



#### Female Plug c/w Seal

(L)

50mm F Plug	M637050	£5.30
76mm F Plug	M637076	£6.20
89mm F Plug	M637089	£9.50
108mm F Plug	M637108	£12.00
133mm F Plug	M637133	£20.30
159mm F Plug	M637159	£28.00



#### Footvalve/Strainer with Manual Drain Facility

(L)

50mm	20 m³/hr	M652050	£53.50
76mm	30 m³/hr	M652076	£66.20
89mm	40 m³/hr	M652089	£73.60
108mm	50 m³/hr	M652108	£91.10
133mm	70 m³/hr	M652133	£125.80
159mm	110 m³/hr	M652159	£182.10
194mm	180 m³/hr	M652194	£285.30



#### Strainer (for Drainage)

(L)

50mm Strainer	M653050	£34.25
89mm Strainer	M653089	£56.50
108mm Strainer	M653108	£72.00
159mm Strainer	M653159	£116.75



#### Flanged Female Coupler

(L)

DN65 x 76mm F	PN16	M634.065076	£30.10
DN80 x 76mm F	PN16	M634.080076	£32.40
DN100 x 108mm F	PN16	M634.100108	£41.20
DN125 x 133mm F	PN16	M634.125133	£59.40
DN150 x 159mm F	PN16	M634.150159	£77.30



Less Seal

#### Welding Female Raw (Black)

(L)

50mm F Raw	M606050	£2.40
76mm F Raw	M606076	£3.20
89mm F Raw	M606089	£4.70
108mm F Raw	M606108	£6.00
133mm F Raw	M606133	£11.10
159mm F Raw	M606159	£12.60
194mm F Raw	M606194	£25.25



#### Rubber Seal

Size	ID	OD		(L)
50mm	60mm	80mm	M607050	£0.40
76mm	90mm	115mm	M607076	£1.10
89mm	110mm	135mm	M607089	£1.30
108mm	140mm	165mm	M607108	£1.40
133mm	150mm	190mm	M607133	£2.60
159mm	170mm	210mm	M607159	£2.70
194mm	210mm	250mm	M607194	£5.90



#### Welding Hosetail (Black)

(L)

50mm Hosetail Raw	M603050	£4.20
76mm Hosetail Raw	M603076	£6.90
100mm Hosetail Raw	M603100	£9.40
125mm Hosetail Raw	M603125	£10.50
150mm Hosetail Raw	M603150	£12.80



#### Conical Increaser F-M

(L)

50mm F x 76mm M	M639050076	£26.70
76mm F x 89mm M	M639076089	£38.60
89mm F x 108mm M	M639089108	£48.10
108mm F x 133mm M	M639108133	£64.40
108mm F x 159mm M	M639108159	£82.30
133mm F x 159mm M	M639133159	£88.40



#### Male Plug c/w Lever

(L)

50mm M Plug	M636050	£10.40
76mm M Plug	M636076	£15.95
89mm M Plug	M636089	£21.80
108mm M Plug	M636108	£24.70
133mm M Plug	M636133	£34.90
159mm M Plug	M636159	£53.00



#### Footvalve/Strainer with Manual Drain Facility & 45° bend

(L)

159mm	110 m³/hr	M654159	£212.20
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#### Flanged Male Coupler with 90° Bend

(L)

DN50 x 50mm M	PN16	M635.050050	£36.20
DN65 x 76mm M	PN16	M635.065076	£46.55
DN100 x 108mm M	PN16	M635.100108	£69.75



#### Flanged Male Coupler

(L)

DN65 x 76mm M	PN16	M633.065076	£41.40
DN80 x 76mm M	PN16	M633.080076	£44.40
DN100 x 108mm M	PN16	M633.100108	£62.80
DN125 x 133mm M	PN16	M633.125133	£89.40
DN150 x 159mm M	PN16	M633.150159	£111.60



#### Welding Male Raw (Black)

(L)

50mm M Raw	M604050	£1.80
76mm M Raw	M604076	£2.25
89mm M Raw	M604089	£3.10
108mm M Raw	M604108	£4.80
133mm M Raw	M604133	£6.30
159mm M Raw	M604159	£7.25
194mm M Raw	M604194	£15.40



#### Lever Ring (Galvanised)

(L)

50mm Lever	M605G050	£9.90
76mm Lever	M605G076	£15.60
89mm Lever	M605G089	£21.80
108mm Lever	M605G108	£23.90
133mm Lever	M605G133	£34.60
159mm Lever	M605G159	£45.70
194mm Lever	M605G194	£91.40

*It is the sole responsibility of the purchaser to ensure that all pipes and fittings are compatible and operationally sound.*

- **WRAS approved (BS 6920) for drinking water (16, 20 and 25mm)**
- Can be used with MDPE, HDPE, LDPE pipes in compliance with ISO 4427, DIN 8074, ENI 2201 and ENI 3244
- Connects to metal and plastic accessories with ISO 7 threads
- Allows easy and quick mounting without loss of parts
- Unbreakable, corrosion resistant and resistant to most chemicals
- Stands up to tough working conditions, pipe bending and pulling
- Not recommended for use with hot water
- Constructed from only prime raw materials
















- Special profile 'D' Ring does not fall out of fitting, will not twist when the pipe is inserted, is easier to maintain and can quickly be taken out and cleaned
- Complies with International Standards (DVGW, Kiwa, ISO 9001, etc.)

**Nominal Pressure**      16 bar      16 - 63mm  
    10 bar      75 - 110mm

**Working Temperature**      0-60°C

**Working temperature for 50 year lifetime**      20°C

## WATER DISTRIBUTION

	Description	mm	20	25	32	40	50	63	75	90	110
	Coupling Prefix: <b>TPLC</b>	<b>PE</b> (L)	20 £1.85	25 £2.19	32 £3.12	40 £4.93	50 £6.16	63 £10.23	75 £15.32	90 £28.19	110 £55.12
	Coupling x Male BSP Prefix: <b>TPLMC</b>	<b>Inches</b> (L)	1/2, 3/4, 1 £1.16	1/2, 3/4, 1 £1.39	3/4, 1, 1 1/4 £2.43	1, 1 1/4, 1 1/2 £3.12	1 1/2, 2 £3.84	1 1/2, 2 £6.32	2, 2 1/2, 3 £9.81	2, 3 £17.55	3, 4 £35.70
	Coupling x Female BSP Prefix: <b>TPLFC</b>	<b>Inches</b> (L)	1/2, 3/4 £1.22	3/4, 1 £1.41	3/4, 1, 1 1/4 £3.59	1 1/4, 1 1/2 £4.94	1 1/2, 2 £5.97	1 1/2, 2 £8.36	2, 2 1/2 £13.77	2, 3 £20.15	3, 4 £47.00
	Line End Prefix: <b>TPLLE</b>	<b>PE</b> (L)	20 -	25 £1.39	32 £1.88	40 £3.13	50 £3.86	63 £6.37	75 £9.87	90 £17.50	110 £35.85
	Reducing Coupler Prefix: <b>TPLRC</b>	<b>PE</b> (L)	n/a -	20 £2.83	20, 25 £3.12	25, 32 £4.33	25, 32, 40 £6.11	32, 40, 50 £8.36	32, 40, 50, 63 £13.10	n/a -	90 £155.08
	Reducing Tee Prefix: <b>TPLRT</b>	<b>PE</b> (L)	n/a -	20 £2.96	25 £4.73	32 £7.14	40 £8.94	50 £16.13	63 £28.44	n/a -	n/a -
	Tee 90° Prefix: <b>TPLT</b>	<b>PE</b> (L)	20 £2.66	25 £3.14	32 £5.20	40 £8.60	50 £10.44	63 £17.14	75 £28.55	- -	- -
	Tee 90° x Male BSP Prefix: <b>TPLTM</b>	<b>Inches</b> (L)	1/2, 3/4 £2.03	1/2, 3/4, 1 £2.31	3/4, 1 £3.86	1 1/4, 1 1/2 £6.12	1 1/4, 1 1/2, 2 £9.37	1 1/2, 2 £12.80	2, 2 1/2, 3 £26.50	n/a -	n/a -
	Tee 90° x Female BSP Prefix: <b>TPLTF</b>	<b>Inches</b> (L)	1/2, 3/4 £1.98	1/2, 3/4, 1 £2.36	3/4, 1, 1 1/4 £4.44	1, 1 1/4, 1 1/2 £7.88	1 1/4, 1 1/2, 2 £10.51	1 1/2, 2 £15.09	2, 2 1/2, 3 £26.54	- -	- -
	Elbow 90° Prefix: <b>TPLE</b>	<b>PE</b> (L)	20 £1.96	25 £2.21	32 £3.47	40 £5.77	50 £7.15	63 £11.20	75 £17.36	- -	- -
	Elbow 90° x Male BSP Prefix: <b>TPLEMC</b>	<b>Inches</b> (L)	1/2, 3/4 £1.34	1/2, 3/4, 1 £1.41	3/4, 1 £2.21	1 1/4, 1 1/2, 2 £4.09	1 1/2, 2 £5.09	2 £7.79	2, 2 1/2, 3 £17.00	- -	- -
	Elbow 90° x Female BSP Prefix: <b>TPLEFC</b>	<b>Inches</b> (L)	1/2, 3/4 £1.31	3/4, 1 £1.48	3/4, 1, 1 1/4 £3.40	1 1/4, 1 1/2 £12.01	1 1/4, 1 1/2, 2 £14.24	1 1/2, 2 £9.96	2, 2 1/2, 3 £17.38	n/a -	n/a -
	Repair Joiner Prefix: <b>TPLRJ</b>	<b>PE</b> (L)	20 n/a	25 £4.35	32 £6.41	40 £6.63	50 £8.65	63 £13.86	75 £20.62	90 £33.27	110 £57.37
	Plasson Compression PN16 Flange Adapter (with metal backing ring)	<b>Inches</b> (L)	n/a -	n/a -	n/a -	n/a -	1 1/2, 2 £38.30	2 £59.20	2 1/2 £69.09	3, 4 £81.32	4 £101.67
	Stop Cock (not Plassim) Prefix: <b>TPLST</b>	<b>PE</b> (L)	20 £10.04	25 £14.27	32 £16.22	40 £19.88	50 £22.56	63 £33.68	75 -	90 -	110 -

## UNIFIT TRANSITION FITTINGS




'Unifit' couplers connect metric MDPE pipe to a variety of other pipe materials such as Lead, Copper, Galvanised, Steel or UPVC.

- Modular coupling mechanism covers inlet pipe diameters 15-35mm
- Compact profile and semi-pushfit installation makes working in tight spaces easy; no need to remove the nut before installation
- Withstands high working pressures
- Available as complete units or as an insert conversion kit for on-site upgrading of existing fittings

Universal Size	mm Inches	15-21 3/8 - 1/2	21-27 1/2 - 3/4	27-35 3/4 - 1
Unifit Coupler Prefix: <b>TPLUC</b>	<b>PE</b> (L)	16, 20, 25 £7.73	20, 25, 32 £9.37	25, 32, 40 £13.47
Conversion Kit	<b>PE</b> (L)	25 £4.93	32 £5.46	n/a -



	Description	mm	20	25	32	40	50	63	75	90	110
	Saddle 2-bolts Prefix: TPLS	Inches (L)	n/a -	1/2, 3/4 £0.79	1/2, 3/4 £0.94	1/2, 3/4, 1 £1.23	1/2, 3/4, 1 £1.35	3/4, 1 £2.77	3/4, 1 £3.07	n/a -	n/a -
	Saddle 4-bolts Prefix: TPLS	Inches (L)	n/a -	n/a -	n/a -	n/a -	n/a -	3/4, 1, 1 1/2 £4.46	3/4, 1, 1 1/2, 2 £5.33	3/4, 1, 1 1/2, 2 £6.46	1, 1 1/2, 2 £8.57
	Coupling Nut	Poly (L)	20 £0.38	25 £0.57	32 £0.74	40 £0.96	50 £1.04	63 £3.06	75 £3.17	90 £7.35	110 £8.92
	'D' Ring	(L)	£0.10	£0.10	£0.19	£0.21	£0.21	£0.26	£0.26	-	-
	'O' Ring	(L)	-	-	-	-	-	-	-	£1.30	£1.72

### Adapter System

Plassim adapters are designed to connect pipes and other devices, assembled with threads where there is a need for easy assembly and disassembly.

By using the male and female adapter fittings with standard Plassim fittings overleaf, many combinations of products can be configured.

Simple and easy to construct offering an inexpensive solution to complicated piping systems and building problems.

Adapter/couplers are approved for use with main system valves, filters, entry pipework and other similar systems.

	Description	mm	32	40	50	63	75
	Adapter x Male BSP Prefix: TPLMA	Inches (L)	3/4, 1 £2.03	1 1/2 £2.21	1 1/2, 2 £2.41	2 £4.35	2, 3 £4.09
	Adapter x Female BSP Prefix: TPLFA	Inches (L)	3/4 £2.03	n/a -	n/a -	n/a -	n/a -
	Adapter Nut	(L)	£0.73	£0.81	£1.41	£3.07	£3.14



#### Chamfering Tool

(16-63mm)  
TLPCT1663

£14.52 (L)

#### Wrench

(40-75mm)  
TPLWT63

£18.80 (L)



#### Lubricating Paste

110g  
TPLLPI10

£3.67 (L)

## THREADED FITTINGS (BSP)

### Nipple M/M

Prefix  
TPLN



Inches	(L)
1/2 x 1/2	£0.21
3/4 x 3/4	£0.21
1 x 1	£0.50
1 1/4 x 1 1/4	£0.79
1 1/2 x 1 1/2	£0.88
2 x 1 1/4	£1.28
2 x 2	£1.28

### Socket F/F

Prefix  
TPLFS



Inches	(L)
1/2 x 1/2	£0.33
3/4 x 3/4	£0.33
1 x 3/4	£1.06
1 x 1	£1.06
1 1/4 x 1	£1.82
1 1/2 x 1 1/2	£1.57
2 x 1	£1.93

### Elbow F/F

Prefix  
TPLEFF



Inches	(L)
1/2	£1.32
3/4	£1.56
1	£1.75
1 1/4	£3.77
1 1/2	£3.77
2	£5.40

### Reducing Bush M/F

Prefix  
TPLRB



Inches	(L)
3/4 x 1/2	£0.43
1 x 1/2	£0.58
1 1/4 x 1	£0.88
1 1/2 x 1/2	£0.88
1 1/2 x 1	£0.88
2 x 1 1/2	£1.33

### Plug, Male



Inches	(L)
1/2	£0.28
3/4	£0.30
1	£0.58
1 1/4	£0.78
1 1/2	£0.99
2	£1.23

### Elbow M/F

Prefix  
TPLEMF



Inches	(L)
1/2	£1.31
3/4	£1.57
1	£1.75

### Cap, Female

Prefix  
TPLCAP



Inches	(L)
1/2	£0.45
3/4	£0.54
1	£0.77
1 1/4	£0.98
1 1/2	£1.15
2	£1.41

### Tee F/F/F

Prefix  
TPLTBSPF



Inches	(L)
1/2	£1.67
3/4	£1.98
1	£2.31
1 1/4	£2.31
1 1/2	£7.50
2	£7.50

## UNION FITTINGS (BSP)

### Elbow 90° F/F

Part No.  
QG5402100



Inches	(L)
1	£2.15

### Tee F/F/F

Part No.  
QG5403101



Inches	(L)
1	£2.35

### Straight Union M/F

Part No.  
QG5400100



Inches	(L)
1	£1.30

### Elbow 90° M/F

Part No.  
QG5404100



Inches	(L)
1	£1.35

### Tee M/F/F

Part No.  
QG5403100



Inches	(L)
1	£2.15

MDPE Pipe information and prices shown on the following page

## Camlocks - Poly



**Part A: Male Camlock to Female BSP in Poly**

Description	Max Working Pressure	Part No.	(L)
1/2" Male x 1/2" Female BSP	5	2-KCCPA12	£0.60
3/4" Male x 3/4" Female BSP	7	2-KCCPA34	£0.60
1" Male x 1" Female BSP	7	2-KCCPA01	£0.60
1 1/4" Male x 1 1/4" Female BSP	7	2-KCCPA114	£0.90
1 1/2" Male x 1 1/2" Female BSP	7	2-KCCPA112	£0.90
2" Male x 2" Female BSP	7	2-KCCPA02	£1.50
3" Male x 3" Female BSP	4	2-KCCPA03	£2.10
4" Male x 4" Female BSP	4	2-KCCPA04	£6.10



**Part B: Female Camlock to Male BSP in Poly**

Description	Max Working Pressure	Part No.	(L)
1/2" Female x 1/2" Male	5	2-KCCPB12	£2.30
3/4" Female x 3/4" Male BSP	7	2-KCCPB34	£2.30
1" Female x 1" Male BSP	7	2-KCCPB01	£2.80
1 1/4" Female x 1 1/4" Male BSP	7	2-KCCPB114	£4.20
1 1/2" Female x 1 1/2" Male BSP	7	2-KCCPB112	£4.30
2" Female x 2" Male BSP	7	2-KCCPB02	£4.90
3" Female x 3" Male BSP	4	2-KCCPB03	£6.70
4" Female x 4" Male BSP	4	2-KCCPB04	£15.50



**Part C: Female Camlock to Hosetail in Poly**

Description	Max Working Pressure	Part No.	(L)
1/2" Female x 13mm Hosetail	5	2-KCCPC12	£2.30
3/4" Female x 19mm Hosetail	7	2-KCCPC34	£2.40
1" Female x 25mm Hosetail	7	2-KCCPC01	£2.80
1 1/4" Female x 32mm Hosetail	7	2-KCCPC114	£4.40
1 1/2" Female x 38mm Hosetail	7	2-KCCPC112	£4.30
2" Female x 52mm Hosetail	7	2-KCCPC02	£5.20
2 1/2" Female x 63mm Hosetail	4	2-KCCPC03	£7.30
3" Female x 76mm Hosetail	4	2-KCCPC04	£16.00



**Part D: Female Camlock to Female BSP in Poly**

Description	Max Working Pressure	Part No.	(L)
1/2" Female x 1/2" Female BSP	5	2-KCCPD12	£2.30
3/4" Female x 3/4" Female BSP	7	2-KCCPD34	£2.40
1" Female x 1" Female BSP	7	2-KCCPD001	£2.80
1 1/4" Female x 1 1/4" Female BSP	7	2-KCCPD114	£4.20
1 1/2" Female x 1 1/2" Female BSP	7	2-KCCPD112	£4.40
2" Female x 2" Female BSP	7	2-KCCPD02	£5.00
3" Female x 3" Female BSP	4	2-KCCPD03	£7.10
4" Female x 4" Female BSP	4	2-KCCPD04	£15.60



**Part E: Male Camlock to Hosetail in Poly**

Description	Max Working Pressure	Part No.	(L)
1/2" Male x 13mm Hosetail	5	2-KCCPED12	£0.50
3/4" Male x 19mm Hosetail	7	2-KCCPE34	£0.50
1" Male x 25mm Hosetail	7	2-KCCPE01	£0.60
1 1/4" Male x 32mm Hosetail	7	2-KCCPE114	£1.00
1 1/2" Male x 38mm Hosetail	7	2-KCCPE112	£1.00
2" Male x 52mm Hosetail	7	2-KCCPE02	£1.80
2 1/2" Male x 63mm Hosetail	4	2-KCCPE03	£2.90
3" Male x 76mm Hosetail	4	2-KCCPE04	£7.90



**Part F: Male Camlock to Male BSP in Poly**

Description	Max Working Pressure	Part No.	(L)
1/2" Male x 1/2" Male BSP	5	2-KCCPF12	£0.50
3/4" Male x 3/4" Male BSP	7	2-KCCPF34	£0.50
1" Male x 1" Male BSP	7	2-KCCPF01	£0.60
1 1/4" Male x 1 1/4" Male BSP	7	2-KCCPF114	£1.00
1 1/2" Male x 1 1/2" Male BSP	7	2-KCCPF112	£1.00
2" Male x 2" Male BSP	7	2-KCCPF02	£1.70
3" Male x 3" Male BSP	4	2-KCCPF03	£2.50
4" Male x 4" Male BSP	4	2-KCCPF04	£8.00



**Part DC: Female Camlock Dust Cap In Poly**

Description	Max Working Pressure	Part No.	(L)
3/4" Camlock Dust Cap	5	2-KCCPDC34	£1.90
1" Camlock Dust Cap	7	2-KCCPDC01	£2.70
1 1/4" Camlock Dust Cap	7	2-KCCPDC114	£0.00
1 1/2" Camlock Dust Cap	7	2-KCCPDC112	£4.20
2" Camlock Dust Cap	7	2-KCCPDC02	£5.00
3" Camlock Dust Cap	4	2-KCCPDC03	£6.60
4" Camlock Dust Cap	4	2-KCCPDC04	£13.50



**Part DP: Male Camlock Dust Plug in Poly**

Description	Max Working Pressure	Part No.	(L)
3/4" Camlock Dust Plug	5	2-KCCPDP34	£0.50
1" Camlock Dust Plug	7	2-KCCPDP01	£0.50
1 1/4" Camlock Dust Plug	7	2-KCCPDP114	£0.00
1 1/2" Camlock Dust Plug	7	2-KCCPDP112	£0.80
2" Camlock Dust Plug	7	2-KCCPDP02	£1.40
3" Camlock Dust Plug	4	2-KCCPDP03	£1.90
4" Camlock Dust Plug	4	2-KCCPDP04	£4.10



**Part A: Male Camlock to Female BSP in Aluminium**

Description	Max Working Pressure	Part No.	(L)
1/2" Male x 1/2" Female BSP	10	2-KCCAA12	£1.30
3/4" Male x 3/4" Female BSP	10	2-KCCAA34	£1.40
1" Male x 1" Female BSP	10	2-KCCAA01	£1.60
1 1/4" Male x 1 1/4" Female BSP	10	2-KCCAA114	£1.80
1 1/2" Male x 1 1/2" Female BSP	10	2-KCCAA112	£2.20
2" Male x 2" Female BSP	10	2-KCCAA02	£2.70
2 1/2" Male x 2 1/2" Female BSP	10	2-KCCAA212	£4.70
3" Male x 3" Female BSP	10	2-KCCAA03	£4.80
4" Male x 4" Female BSP	10	2-KCCAA04	£7.10



**Part B: Female Camlock to Male BSP in Aluminium**

Description	Max Working Pressure	Part No.	(L)
1/2" Female x 1/2" Male BSP	10	2-KCCAB12	£3.00
3/4" Female x 3/4" Male BSP	10	2-KCCAB34	£2.40
1" Female x 1" Male BSP	10	2-KCCAB01	£3.20
1 1/4" Female x 1 1/4" Male BSP	10	2-KCCAB114	£4.60
1 1/2" Female x 1 1/2" Male BSP	10	2-KCCAB112	£4.80
2" Female x 2" Male BSP	10	2-KCCAB02	£5.70
2 1/2" Female x 2 1/2" Male BSP	10	2-KCCAB212	£7.20
3" Female x 3" Male BSP	10	2-KCCAB03	£9.10
4" Female x 4" Male BSP	10	2-KCCAB04	£11.90



**Part C: Female Camlock to Hosetail in Aluminium**

Description	Max Working Pressure	Part No.	(L)
1/2" Female x 13mm Hosetail	10	2-KCCAC12	£3.00
3/4" Female x 19mm Hosetail	10	2-KCCAC34	£3.00
1" Female x 25mm Hosetail	10	2-KCCAC01	£3.20
1 1/4" Female x 32mm Hosetail	10	2-KCCAC114	£4.70
1 1/2" Female x 38mm Hosetail	10	2-KCCAC112	£5.20
2" Female x 52mm Hosetail	10	2-KCCAC02	£6.20
2 1/2" Female x 63mm Hosetail	10	2-KCCAC212	£7.60
3" Female x 76mm Hosetail	10	2-KCCAC03	£10.20
4" Female x 102mm Hosetail	10	2-KCCAC04	£13.80



**Part D: Female Camlock to Female BSP in Aluminium**

Description	Max Working Pressure	Part No.	(L)
1/2" Female x 1/2" Female BSP	10	2-KCCAD12	£3.00
3/4" Female x 3/4" Female BSP	10	2-KCCAD34	£2.60
1" Female x 1" Female BSP	10	2-KCCAD01	£3.20
1 1/4" Female x 1 1/4" Female BSP	10	2-KCCAD114	£4.90
1 1/2" Female x 1 1/2" Female BSP	10	2-KCCAD112	£5.10
2" Female x 2" Female BSP	10	2-KCCAD02	£5.90
2 1/2" Female x 2 1/2" Female BSP	10	2-KCCAD212	£7.40
3" Female x 3" Female BSP	10	2-KCCAD03	£9.80
4" Female x 4" Female BSP	10	2-KCCAD04	£13.20



**Part E: Female Camlock to Hosetail in Aluminium**

Description	Max Working Pressure	Part No.	(L)
1/2" Female x 13mm Hosetail	10	2-KCCAE12	£1.40
3/4" Female x 19mm Hosetail	10	2-KCCAE34	£1.40
1" Female x 25mm Hosetail	10	2-KCCAE01	£1.80
1 1/4" Female x 32mm Hosetail	10	2-KCCAE114	£2.40
1 1/2" Female x 38mm Hosetail	10	2-KCCAE112	£2.80
2" Female x 52mm Hosetail	10	2-KCCAE02	£4.00
2 1/2" Female x 63mm Hosetail	10	2-KCCAE212	£5.30
3" Female x 76mm Hosetail	10	2-KCCAE03	£7.20
4" Female x 102mm Hosetail	10	2-KCCAE04	£10.80



**Part F: Male Camlock to Male BSP in Aluminium**

Description	Max Working Pressure	Part No.	(L)
1/2" Male x 1/2" Male BSP	10	2-KCCAF12	£1.50
3/4" Male x 3/4" Male BSP	10	2-KCCAF34	£1.50
1" Male x 1" Male BSP	10	2-KCCAF01	£1.90
1 1/4" Male x 1 1/4" Male BSP	10	2-KCCAF114	£2.40
1 1/2" Male x 1 1/2" Male BSP	10	2-KCCAF112	£2.70
2" Male x 2" Male BSP	10	2-KCCAF02	£3.60
2 1/2" Male x 2 1/2" Male BSP	10	2-KCCAF212	£5.30
3" Male x 3" Male BSP	10	2-KCCAF03	£6.90
4" Male x 4" Male BSP	10	2-KCCAF04	£11.10



**Part DC: Female Camlock Dust Cap In Aluminium**

Description	Max Working Pressure	Part No.	(L)
1/2" Camlock Dust Cap	10	2-KCCADC12	£2.60
3/4" Camlock Dust Cap	10	2-KCCADC34	£2.20
1" Camlock Dust Cap	10	2-KCCADC01	£2.90
1 1/4" Camlock Dust Cap	10	2-KCCADC114	£4.20
1 1/2" Camlock Dust Cap	10	2-KCCADC112	£4.50
2" Camlock Dust Cap	10	2-KCCADC02	£5.30
2 1/2" Camlock Dust Cap	10	2-KCCADC212	£6.00
3" Camlock Dust Cap	10	2-KCCADC03	£7.90
4" Camlock Dust Cap	10	2-KCCADC04	£10.40



**Part DP: Male Camlock Dust Plug In Aluminium**

Description	Max Working Pressure	Part No.	(L)
1/2" Camlock Dust Plug	10	2-KCCADP12	£1.00
3/4" Camlock Dust Plug	10	2-KCCADP34	£1.10
1" Camlock Dust Plug	10	2-KCCADP01	£1.40
1 1/4" Camlock Dust Plug	10	2-KCCADP114	£1.70
1 1/2" Camlock Dust Plug	10	2-KCCADP112	£1.80
2" Camlock Dust Plug	10	2-KCCADP02	£2.40
2 1/2" Camlock Dust Plug	10	2-KCCADP212	£3.40
3" Camlock Dust Plug	10	2-KCCADP03	£4.10
4" Camlock Dust Plug	10	2-KCCADP04	£6.00

Plasson electrofusion fittings are designed for high performance pipe jointing and a long system life. Standard 4.7mm pin fits UK controllers, they will weld to PE80, PE100 and PEX-A pipes. WRAS approved fittings. BS EN 12201 and BS EN 1555 approved. Other Plasson electrofusion fittings available, please contact for more details and prices.

**49010 EF Couplers PN16**

(L)

20mm	49010020	£3.90
25mm	49010025	£3.90
32mm	49010040	£3.90
40mm	49010040	£5.80
50mm	49010050	£6.00
63mm	49010063	£7.20
75mm	49010075	£11.10
90mm	49010090	£11.20
110mm	49010110	£17.10
160mm	49010160	£30.60

**49120 EF End Cap**

(L)

20mm	49120020	£6.90
25mm	49120025	£7.40
32mm	49120032	£8.10
40mm	49120040	£9.40
50mm	49120050	£13.80
63mm	49120063	£15.60
75mm	49120075	£28.40
90mm	49120090	£32.00
110mm	49120110	£45.90
160mm	49120160	£77.60

**49127 Spigot End Plug**

(L)

32mm	49127032	£2.20
50mm	49127050	£3.10
63mm	49127063	£5.80
75mm	49127075	£6.50
90mm	49127090	£10.80
110mm	49127110	£14.70
160mm	49127160	£28.60

**49040 EF Equal Tee**

(L)

20mm Equal Tee	49040020	£8.50
25mm Equal Tee	49040025	£8.50
32mm Equal Tee	49040032	£9.10
40mm Equal Tee	49040040	£14.10
50mm Equal Tee	49040050	£17.10
63mm Equal Tee	49040063	£19.30
75mm Equal Tee	49040075	£28.90
90mm Equal Tee	49040090	£33.20
110mm Equal Tee	49040110	£49.60
160mm Equal Tee	49040160	£105.20

**49050 90 Degree Elbow**

(L)

20mm	49050020	£9.10
25mm	49050025	£9.10
32mm	49050032	£9.10
40mm	49050040	£13.00
50mm	49050050	£17.80
63mm	49050063	£18.90
75mm	49050075	£25.70
90mm	49050075	£27.00
110mm	49050110	£41.20
160mm	49050160	£86.30

**49060 EF 45 degree Elbow**

(L)

32mm	49060032	£8.70
40mm	49060040	£12.30
50mm	49060050	£14.20
63mm	49060063	£18.90
75mm	49060075	£25.60
90mm	49060090	£28.30
110mm	49060110	£41.80
160mm	49060160	£86.30

**49027 EF Spigot Flange Adaptor**

(L)

32mm	49027032	£4.90
50mm	49027050	£7.50
63mm	49027063	£8.70
75mm	49027075	£11.00
90mm	49027090	£14.40
110mm	49027110	£18.00
160mm	49027160	£31.80

**Stub Flange Kit\*\***

Includes EF Coupler, Stub Flange, Backing Ring, Gasket and Bolt Set

(L)

63mm	£36.00
90mm	£44.40
110mm	£73.40
160mm	£121.70

\*\*Not Plasson



**Wrought Iron Barrel  
Socket EN10241  
(BS1740) Galvanised**

Size	(L)
1/2"	£2.30
3/4"	£2.50
1"	£3.60
1 1/4"	£5.30
1 1/2"	£6.30
2"	£9.80
2 1/2"	£17.90
3"	£23.90
4"	£44.90

**Wrought Iron  
Barrel Nipple  
Galvanised**

Size	(L)
1/2"	£1.30
3/4"	£1.70
1"	£2.20
1 1/4"	£3.20
1 1/2"	£3.90
2"	£5.70
2 1/2"	£12.30
3"	£16.20
4"	£31.20

**Concentric Reducing  
Socket Galvanised**

Size	(L)
1/2" - 1/4"	£1.70
3/4" - 1/2"	£2.40
1" - 1/2"	£3.00
1" - 3/4"	£3.00
1 1/4" - 1"	£4.50
1 1/2" - 1"	£5.40
1 1/2" - 1 1/4"	£5.40
2" - 1"	£8.10
2" - 1 1/2"	£8.10
3" - 2"	£39.90
3" - 2 1/2"	£34.10
4" - 2"	£57.70

**Hexagon Reducing  
Nipple Galvanised**

Size	(L)
1/2" - 1/4"	£1.90
3/4" - 1/2"	£2.40
1" - 1/2"	£3.50
1" - 3/4"	£3.50
1 1/4" - 3/4"	£5.70
1 1/4" - 1"	£5.70
1 1/2" - 1"	£3.50
1 1/2" - 1 1/4"	£7.20
2" - 1"	£10.50
2 1/2" - 2"	£19.00
2" - 2 1/2"	£19.00
3" - 2"	£26.20
3" - 2 1/2"	£34.60

**Hexagon Bush  
Galvanised**

Size	(L)
1/2" - 1/4"	£1.50
3/4" - 1/2"	£1.70
1" - 1/2"	£2.50
1" - 3/4"	£2.40
1 1/4" - 3/4"	£3.80
1 1/2" - 1"	£4.50
1 1/2" - 1 1/4"	£4.50
2" - 1"	£6.20
2" - 1 1/2"	£6.20
2 1/2" - 2"	£10.50
3" - 2"	£15.20
3" - 2 1/2"	£15.20
4" - 3"	£28.50

**Hexagon Nipple**

Size	(L)
1/2"	£1.40
3/4"	£1.70
1"	£2.40
1 1/4"	£3.40
1 1/2"	£4.40
2"	£6.10
2 1/2"	£11.40
3"	£15.80
4"	£15.20

**Straight Union  
Galvanised**

Size	(L)
1/2"	£7.20
3/4"	£9.00
1"	£10.50
1 1/4"	£14.20
1 1/2"	£19.00
2"	£28.50
2 1/2"	£47.30
3"	£80.50
4"	£151.40

**Straight Union Male  
Female Galvanised**

Size	(L)
1/2"	£8.10
3/4"	£10.50
1"	£12.40
1 1/4"	£16.10
1 1/2"	£21.80
2"	£32.20
2 1/2"	£55.80
3"	£94.70

**Equal Elbow 90°  
Galvanised**

Size	(L)
1/2"	£1.70
3/4"	£2.50
1"	£1.70
1 1/4"	£5.70
1 1/2"	£7.60
2"	£11.40
2 1/2"	£19.90
3"	£30.30
4"	£54.90

**Equal Elbow 90°  
Male Female  
Galvanised**

Size	(L)
1/2"	£2.10
3/4"	£1.90
1"	£2.80
1 1/4"	£4.20
1 1/2"	£7.20
2"	£8.80
2 1/2"	£12.40
3"	£27.50
4"	£42.70

## Reducing Elbow 90° Galvanised



Size	(L)
1/2" - 1/4"	£2.10
3/4" - 1/2"	£2.80
1" - 1/2"	£4.20
1" - 3/4"	£4.20
1 1/4" - 1"	£6.80
1 1/2" - 1"	£8.40
2" - 1"	£11.60
2" - 1 1/2"	£12.40

## Equal Tee Galvanised



Size	(L)
1/4"	£2.40
1/2"	£2.20
3/4"	£3.10
1"	£4.90
1 1/4"	£7.40
1 1/2"	£9.60
2"	£14.20
2 1/2"	£30.30
3"	£39.80

## Reducing Branch Tee Galvanised



Size	(L)
1/2" - 1/4"	£3.10
3/4" - 1/2"	£2.30
1" - 1/2"	£3.20
1" - 3/4"	£3.30
1 1/4" - 1"	£5.80
1 1/2" - 1"	£6.60
1 1/2" - 1 1/4"	£10.10
2" - 1/2"	£9.10
2" - 1"	£10.20
2" - 1 1/2"	£14.10
2 1/2" - 2"	£29.30
3" - 2"	£42.40
4" - 3"	£63.40

## Solid Blanking Plug Galvanised



Size	(L)
1/4"	£1.10
1/2"	£3.30
3/4"	£3.60
1"	£4.70
1 1/4"	£6.60
1 1/2"	£3.40
2"	£11.60

## Blanking Cap Galvanised



Size	(L)
1/2"	£1.40
3/4"	£1.70
1"	£2.40
1 1/4"	£3.40
1 1/2"	£4.40
2"	£6.10
2 1/2"	£11.40
3"	£15.80
4"	£28.50



Standard Road Crossing  
shown with Bauer female coupler



Crossing with Side Ramps

## Steel Road Crossings

- Each road-crossing is fabricated to order (lengths from 3 metres)
- Robust steel construction
- Drive-Over dimensions: 8" wide x 2" high
- Can easily be installed into a pipe line anywhere it is needed
- Suitable for tarmac surfaces, grassland, headlands, etc.
- Savings in time and money
- Eliminates the need for a digger, soilbanks and 2 people to construct a drive-over pipe
- Minimal pressure drop
- Can be supplied with couplers of your choice including *Javelin*, *Wright Rain* and *Bauer* type
- Coupling Sizes: 3", 4" and 5" (*Javelin* and *Wright Rain*)  
50, 76, 108, 133 and 159mm (*Bauer*)

Size	Standard Crossing (Q)	Crossing with Side Ramps (Q)
3 metre length with couplings	£465.00	£620.00
4 metre length with couplings	£515.00	£720.00
5 metre length with couplings	£585.00	£825.00
Other lengths	Price on Application	



- PVC-O pressure pipe, ideal for irrigation use
- Lightweight and easy to handle and install
- The strongest thermoplastic pipe on the market
- Tougher, more resilient and stronger than conventional PVC-U pipes
- Simple low insertion force push-fit system with special factory fitted ring seal ensuring superior joint quality and system performance

- Corrosion resistant
- Impact resistant
- Superior performance against surge events and fatigue
- Standard 16 bar pressure rated
- Full UK based support
- Sizes available 110-160-200mm
- Full specifications and prices on request

**16 Bar  
Pressure  
Rated**

In-Line Hydrants		160mm		200mm	
Description	Reference	Painted	Galv	Painted	Galv
1 metre x 4" riser + 4" weld-on hydrant, FMLD or RW	A1	£275.00	£310.00	£303.00	£338.00
1 metre x 5" riser + 5" weld-on hydrant, FMLD or RW	A2	£314.00	£349.00	£342.00	£377.00
1 metre x 4" riser + 4" flanged weld-on hydrant, FMLD or RW	C2	£340.00	£375.00	£368.00	£403.00
1 metre x 5" riser + 5" flanged weld-on hydrant, FMLD or RW	C3	£400.00	£437.00	£428.00	£465.00

Terminal Hydrants		160mm		200mm	
Description	Reference	Painted	Galv	Painted	Galv
1 metre x 4" riser + 4" weld-on hydrant, FMLD or RW	B1	£345.00	£380.00	£373.00	£408.00
1 metre x 5" riser + 5" weld-on hydrant, FMLD or RW	B2	£370.00	£396.00	£398.00	£424.00
1 metre x 4" riser + 4" flanged weld-on hydrant, FMLD or RW	D2	£409.00	£444.00	£437.00	£472.00
1 metre x 5" riser + 5" flanged weld-on hydrant, FMLD or RW	D3	£471.00	£506.00	£499.00	£534.00



**In-Line Hydrant (shown left)**  
160mm Female/Female Coupler with 1 metre steel riser and FMLD or RW hydrant top.  
**Ref: A (in table)**

**In-Line Hydrant Flanged (shown right)**  
160mm Female/Female Coupler with 1 metre steel riser, flanged at top. Supplied less hydrant top.  
**Ref: C (in table)**



**Terminal Hydrant (shown left)**  
160mm Female Coupler with 1 metre steel riser, FMLD or RW hydrant top and thrust plate.  
**Ref: B (in table)**

**Terminal Hydrant Flanged (not shown)** 160mm Female Coupler with 1 metre steel riser, flanged at top, and thrust plate. Supplied with hydrant top.  
**Ref: D (in table)**

**Bespoke Hydrants**  
Other sizes and specifications can be specially fabricated in our workshop to suit customers individual requirements.  
These can be provided painted as standard or have a galvanised finish at extra cost.



## Viking Johnson 'Maxifit' Compression Couplers

- Original Viking Johnson (VJ) couplers
- Suitable for the repair of plain ended pipe with different outside diameters
- One fitting is able to connect steel, ductile iron, PVCu, cast-iron and asbestos cement pipes
- MaxiFit meets BS EN ISO 9001 standards, also the requirements of the UK Water Regulations and EN 14525
- Working pressure 16 bar (water)
- Site test pressure 24 bar (water)
- Standard sleeve or Long sleeve length options
- Other 'Maxi' fittings available including Flanged Adapter Fittings - Threaded End Caps - Stepped Couplers - prices on request



### Construction

- End ring and adapter body/centre sleeve  
*Ductile iron to BS EN 1563:1997*
- Gasket  
*EPDM compound (grade E), Nitrile (grade G)*
- Nuts and Bolts  
*Steel: BS EN 4190:2001 (nuts)*  
*BS EN ISO 898-1:1999 (bolts)*
- Washers  
*Stainless steel to BS 1449: Part 2*

Size Range (mm)	Standard Sleeve Part No.	Overall Length (mm)	List Price (£)	Long Sleeve Part No.	Overall Length (mm)	List Price (£)
85 - 107	J6B13910434	190	£74.50	J6B13999650	285	£108.20
107 - 132	J6B13910445	190	£89.75	J6B13999651	285	£110.50
132 - 158	J6B13910456	190	£114.40	J6B13999655	285	£136.85
158 - 184	J6B13910467	190	£120.85	J6B13999652	285	£146.70
218 - 244	J6B13910478	230	£162.95	J6B13999653	285	£199.45
266 - 295	J6B13910489	230	£217.95	J6B13999654	350	£279.20

## Raw Fittings and Accessories

Fitting	Type	Part no.	(£)
	Female	J7E220V160	£64.85
	Female	J7E220V200	£84.45
	Male	J7E218V160	£43.20
	Male	J7E218V200	£71.45
	Female	J7E207V160	£146.20
	Female	J7E202V160	£151.35
	-	J7E223160	£4.15
	-	J7E223200	£8.45

## Associated Equipment



### Valves

Gate valves, Check valves  
See page 36



### Flanged Bauer Couplers

Male and Female PN16 flange couplers  
See page 23



### Flanged Valve Hydrants

PN16 flanges c/w Irrifrance or Wright Rain hydrants  
See pages 20-21

### Irrifrance Loz Couplers and Hose Bands for PET Hoses

Steel Band      Loz Coupler      Steel Band



Description	PET Wall ø	Bar	Part No.	Price (L)
44mm Coupler	3.5mm		MPG 33977	£105.40
44mm Band			MPY 3843 I	£15.10
50mm Coupler	3.7mm	8	MPF 96927	£108.20
50mm Coupler	4.8mm	10	MPZ 76543	£110.80
50mm Band			MPS 76560	£16.30
60mm Coupler	4.5mm	8	MPR 71292	£113.90
60mm Band			MPS 70442	£11.60
63mm Coupler	4.7mm	8	MPD 89634	£116.40
63mm Coupler	5.8mm	10	MPL 76577	£116.40
63mm Band			MPE 76594	£12.00
70mm Coupler	5mm		MPY 37189	£119.70
70mm Band			MPP 3695 I	£13.30
75mm Coupler	5.5mm		MPT 74928	£159.50
75mm Coupler	6.8mm		MPH 88212	£161.00
75mm Band			MPN 74877	£14.20
82mm Coupler	6mm		MPC 87655	£152.90
82mm Coupler	7.5mm		MPB 88229	£161.00
82mm Band			MPK 85615	£17.20
90mm Coupler	6.7mm		MPM 74945	£182.60
90mm Coupler	8.2mm		MPR 17610	£208.10
90mm Band			MPG 74894	£21.70
100mm Coupler	7mm		MPB 12030	£198.00
100mm Coupler	9mm		MPH 67604	£223.90
100mm Band			MPW 11588	£18.00
110mm Coupler	7.5mm		MPF 74962	£251.70
110mm Coupler	8.2mm		MPB 67621	£249.00
110mm Coupler	10mm		MPD 45129	£233.80
110mm Coupler	12.3mm		MPG 96675	£300.60
110mm Band			MPA 74911	£19.00
120mm Coupler	8.9mm		MPZ 51082	£244.70
120mm Coupler	10.8mm		MPR 41392	£292.10
120mm Coupler	11.5mm		MPH 29493	£272.00
120mm Band			MPX 41443	£52.00
125mm Coupler	8.5mm		MPG 44925	£341.30
125mm Coupler	9.3mm		MPV 67638	£326.50
125mm Coupler	10mm		MPN 44908	£326.50
125mm Coupler	11.4mm		MPA 63848	£306.70
125mm Coupler	14mm		MPP 38538	£287.60
125mm Band			MPV 42545	£48.80
135mm Coupler	14.5mm		MPV 88246	£289.90
135mm Band			MPG 84370	£97.10

### Brass Hosetail Couplers



Size	Hosetail x M BSP		Hosetail x F BSP	
	Part No.	(L)	Part No.	(L)
½"	HTBM015	£3.80	HTBF015	£5.85
¾"	HTBM020	£5.55	HTBF020	£5.85
1"	HTBM025	£7.15	HTBF025	£9.20
1¼"	HTBM032	£9.50	HTBF035	£15.85
1½"	HTBM040	£15.60	HTBF040	£22.00
2"	HTBM050	£21.30	HTBF050	£31.65

### Poly Hosetail Couplers



Size	Hosetail x M BSP		Hosetail x F BSP	
	Part No.	(L)	Part No.	(L)
½"	HTPM015	£1.20	HTPF015	£2.10
¾"	HTPM020	£1.20	HTPF020	£3.00
1"	HTPM025	£1.50	HTPF025	£2.40
1¼"	HTPM032	£2.40	HTPF035	£3.30
1½"	HTPM040	£4.90	HTPF040	£4.90
2"	HTPM050	£6.90	HTPF050	£4.90

### Geka 'Swift' Couplers

- Suitable for use with Tricoflex type hoses



Size	Geka Hosetail Part No. (Q)		Geka x M BSP Part No. (Q)		Geka x F BSP Part No. (Q)	
½"	TRH330213	£1.35	TRM331013	£1.25	TRF330013	£1.35
¾"	TRH330219	£1.45	TRM331019	£1.25	TRF330019	£1.45
1"	TRH330225	£1.55	TRM331025	£1.45	TRF330025	£1.50
1¼"	TRH330232	£2.10				



Size	Geka 3-Way Part No. (Q)		Geka Cap Part No. (Q)		Geka Seal Part No. (Q)	
¾"	TRW332019	£7.25				
All Sizes			TRB330300	£1.55	TRS330400	£0.25



## MDPE Pipe



Ideal for potable (drinking) water distribution systems and other applications including irrigation, slurry, pumped sewers, seawater, landfill methane/leachate extraction, etc.

- Lightweight construction
- Abrasion resistant for increased life expectancy
- Excellent chemical resistance
- Smooth internal bore gives excellent flow rate
- High fracture toughness even at low temperatures
- **BLUE** pipe (for Potable Water) and **BLACK** pipe (for Waste Water)
- BS6730 also complies with WIS4-32-17, large bore pipes (75mm +) complies to WIS4-32-17
- 12 bar rated PE80 (SDR11) available in sizes 20, 25, 32, 40, 50 and 63mm
- Use with **PLASSIM** Compression Couplers, see pages 26-27 for details and prices

## PE80 - MDPE Water Pipe - 12 BAR Rated

Diameter (O.D)	Pressure Rating	Coil Length (metres)	Pipe Rating	Per Mtr (Q)
20mm	12 BAR	25-50-100	<b>SDR9</b>	£0.50
25mm	12 BAR	25-50-100	<b>SDR11</b>	£0.55
32mm	12 BAR	25-50-100-150	<b>SDR11</b>	£0.95
40mm	12 BAR	50-100	<b>SDR11</b>	£1.80
50mm	12 BAR	25-50-100	<b>SDR11</b>	£2.20
63mm	12 BAR	6-25-50-100-150	<b>SDR11</b>	£3.50

## PE100 - MDPE Water Pipe - 10 BAR Rated

Diameter (O.D)	Pressure Rating	Coil Length (metres)	Pipe Rating	Per Mtr (Q)
90mm	10 BAR	6-12-50-100	<b>SDR17</b>	£4.30
110mm	10 BAR	6-12-50-100	<b>SDR17</b>	£6.55

Pipe sizes up to 315mm available on request. Different pipe ratings also available.

## Sports Pro Pipe



Manufactured with PE100 which has increased tensile strength, water hammer resistance, flow capacity and scratch resistance over PE80.

All Sports Pro pipe conforms to BS EN12202 and approved for recycled and non-potable water.

Diameter (O.D)	Wall Thickness	Pressure Rating	Coil Lengths (metres)	Per Mtr (Q)
32mm	2mm	10 BAR	50-100	£0.85
40mm	2.1mm	10 BAR	50-100	£1.30
50mm	3mm	10 BAR	50-100	£1.95
63mm	3.8mm	10 BAR	50-100	£3.15
75mm	5.6mm	10 BAR	50-100-150	£4.40
90mm	6.7mm	10 BAR	50-100-150	£6.30

Diameter (O.D)	Wall Thickness	Pressure Rating	Coil Lengths (metres)	Per Mtr (Q)
32mm	2.4mm	12.5 BAR	50-100	£1.00
40mm	3mm	12.5 BAR	50-100	£1.55
50mm	4.6mm	12.5 BAR	50-100	£2.40
63mm	4.7mm	12.5 BAR	50-100	£3.85
75mm	5.6mm	12.5 BAR	50-100	£5.60
90mm	6.7mm	12.5 BAR	50-100	£8.10

50mm, 63mm, 75mm and 90mm are also available on 6m lengths in 10 BAR.

**CALL FOR SPECIAL NETT PRICES**

## Oroflex 10



Oroflex™ high pressure layflat hose. Reliable and robust yet lightweight and flexible. A superior hose used where ordinary PVC hoses tend to fail. Oroflex 10™ is used in irrigation, sewage and general pumping duties worldwide.

Hose I.D	Working Pressure	Hose Type	Part No	Clips Sizes	Per Mtr (L)
2"	12 BAR	Oroflex 10	DH17510	56-59mm	£9.95
3"	12 BAR	Oroflex 10	DH17529	80-85mm	£12.65
4"	10 BAR	Oroflex 10	---	104-112mm	£16.30
5"	10 BAR	Oroflex 10	---	131-139mm	£22.50
6"	10 BAR	Oroflex 10	---	162-174mm	£31.75

## Severn 9610



Blue reinforced layflat hose made from two layers of PVC and bonded to close woven textile reinforcement.

Hose I.D	Working Pressure	Hose Type	Clips Sizes	Per Mtr (L)
2"	4.5 BAR	Severn 9610	56-59mm	£3.20
3"	4 BAR	Severn 9610	80-85mm	£5.15
4"	4 BAR	Severn 9610	104-112mm	£6.75
6"	2.5 BAR	Severn 9610	162-174mm	£12.95

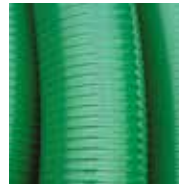
## Oroflex 20



Premium quality, high pressure layflat hose for compressed air/irrigation and sludge injection applications. Best-selling special variant used by contractors for sludge/slurry injection or surface spreading.

Hose I.D	Working Pressure	Hose Type	Part No	Clips Sizes	Per Mtr (L)
2"	20 BAR	Oroflex 20	DH17510	56-59mm	£10.95
3"	17 BAR	Oroflex 20	DH17529	80-85mm	£14.20
3 1/2"	15 BAR	Oroflex 80	DH17535	92-97mm	£25.80
4"	17 BAR	Oroflex 20	DH17540	104-112mm	£17.95
5"	17 BAR	Oroflex 20	DH17550	131-139mm	£25.80
6"	17 BAR	Oroflex 20	DH17560	162-174mm	£42.25

## Suction & Delivery Hoses



- Medium Duty (Green, 2-4") suction hose
- Heavy Duty (Grey, 5-6") suction hose
- Plasticised PVC hose with spiral reinforcement
- Suitable for use in irrigation, also for use on road tankers
- Can also be used as a Delivery hose
- Prices are per metre

Hose I.D.	Working Pressure	Burst Pressure	Hose Colour	Part No.	Clip Sizes	Per Mtr (L)
2"	5 bar	15 bar	Green	J555200	60 - 63mm	£5.75
3"	4 bar	12 bar	Green	J555300	86 - 91mm	£10.10
4"	3 bar	9 bar	Green	J555400	113 - 121mm	£17.45
5"	5 bar	15 bar	Grey	J555500	140 - 148mm	£32.50
6"	4 bar	12 bar	Grey	J555600	162 - 174mm	£49.95
8"	Information and prices on request					£POA

## Hose Clips



- For use with layflat, suction and 'Tricoflex' type water hoses

Size (mm)	Part No.	(L)
16 - 25	TNC016025	£1.00
25 - 35	TNC025035	£1.10
30 - 40	TNC030040	£1.10
40 - 43	MIK 040043	£1.20
43 - 47	MIK 043047	£1.50
48 - 51	MIK 048051	£3.00
52 - 55	MIK 052055	£3.00
56 - 59	MIK 056059	£3.20
60 - 63	MIK 060063	£3.20
64 - 68	MIK 064068	£3.20
69 - 73	MIK 069073	£4.50
74 - 79	MIK 074079	£4.50

Size (mm)	Part No.	(L)
80 - 85	MIK 080085	£4.50
86 - 91	MIK 086091	£4.50
92 - 97	MIK 092097	£4.80
97 - 104	MIK 097104	£4.80
104 - 112	MIK 104112	£5.00
113 - 121	MIK 113121	£5.00
122 - 130	MIK 122130	£5.00
131 - 139	MIK 131139	£7.55
140 - 148	MIK 140148	£7.80
149 - 161	MIK 149161	£7.80
162 - 174	MIK 162174	£8.15
213 - 226	MIK 213226	£8.95

## Tricoflex Delivery Hose



- Hard-wearing UV cover PVC flexible water hose
- Resistant to kinking and crushing
- Knitted reinforcement gives excellent performance
- Smooth inner lining for improved flow under high pressure
- Prices are per metre

Hose I.D.	Working Pressure	Coil Length (metres)	Hose Colour	Clip Sizes	Part No.	Per Mtr (Q)
1/2"	9 bar	25-50-100	Yellow	16 - 25mm	BFT012	£0.90
3/4"	9 bar	25-50-100	Yellow	16 - 25mm	BFT019	£1.50
1"	8 bar	25-50-100	Yellow	25 - 35mm	BFT025	£2.35
1 1/4"	8 bar	25-50-100	Yellow	30 - 40mm	BFT030	£3.65
1 1/2"	8 bar	25-50-100	Yellow	48 - 51mm	BFT040	£6.90
2"	8 bar	25-50-100	Yellow	60 - 63mm	BFT050	£9.00



**Designed specifically for use on irrigation projects, with sizes ranging from 50-200mm. Larger size over 200mm are available, prices on request.**

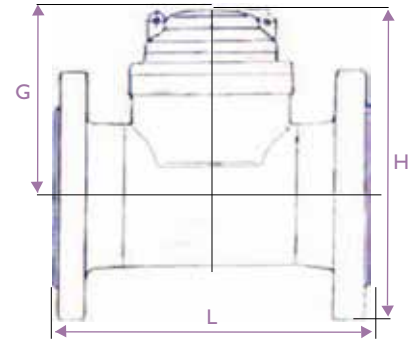
The WI-02 has been developed from the very successful WI range, which was the first water meter specifically designed for use on irrigation projects.

#### INFO

When installing an in-line water meter you must allow sufficient straight lengths of pipe before and after. Inlet length should be at least 10 times, and Outlet length at least 5 times, the diameter of the meter.

#### Specifications

- Suitable for cold water up to +50°C
- Easy installation, can be mounted horizontally, vertically or on an incline
- Meter size and the direction of flow are shown on the meter body
- Manufactured in UNI G25 cast iron with integral flanges, drilled and machined to UNI PN10/16
- Both external and internal surfaces are protected with a durable epoxy coating
- Measuring system allows a free-flow of water through the meter
- Dry Dial mechanism - operated by a small 'paddle type' turbine embedded in the body of the meter; it can be rotated for ease of reading from any angle
- The dial is protected by a metal cover which can be secured with a padlock if required
- The meter mechanism is manufactured so that a reed contact switch may be connected at a later date. For this additional facility an extra charge applies (price on request)
- It is possible to connect the meters for use in water distribution delivery groups - please ask for details



Water Meter Sizes	PN16	DN	50mm	65mm	80mm	100mm	125mm	150mm	200mm
Nominal Flow Rate		m <sup>3</sup> /hr	30	50	150	180	200	400	600
Maximum Flow Rate	Q <sub>max</sub>	m <sup>3</sup> /hr	60	100	220	250	350	600	900
Minimum Flow Rate	Q <sub>min</sub>	m <sup>3</sup> /hr	2	4	3	7	8	10	18
Working Pressure		bars	16	16	16	16	16	16	16
Part No.			WME05002	WME06502	WME08002	WME10002	WME12502	WME15002	WME20002
Price (N)			£265.00	£270.00	£270.00	£275.00	£335.00	£610.00	£930.00
Dimensions	Length (L)	mm	200	200	225	250	250	300	350
	Height (H)	mm	225	240	250	260	260	305	345
	Height (G) *		250	250	250	250	250	270	290
	Weight	Kg	8.5	13	15	19	24	30	48

\* space required to remove measuring mechanism

#### INFO

**CALIBRATION** - If your water meter needs calibrating, Javelin can send the meter away to be tested and certified. The cost of transportation to and from our works is chargeable together with any repairs which may need to be carried out. A certificate with your Abstraction Licence Number is provided with the meter once calibrated. Please call us for details.

## Accessories

Flanged Male and Female couplers suitable for Bauer galvanised steel pipes or Irrifrance/Wright Rain aluminium mainline pipes

### Couplers for Bauer galvanised steel pipes



PN16 Flanged Female Coupler		(L)
DN65 x 76mm F	M634.065076	£30.10
DN80 x 76mm F	M634.080076	£30.80
DN100 x 108mm F	M634.100108	£41.20
DN125 x 133mm F	M634.125133	£59.40
DN150 x 159mm F	M634.150159	£77.30



PN16 Flanged Male Coupler		(L)
DN65 x 76mm M	M633.065076	£41.40
DN80 x 76mm M	M633.080076	£44.50
DN100 x 108mm M	M633.100108	£62.80
DN125 x 133mm M	M633.125133	£89.40
DN150 x 159mm M	M633.150159	£111.60

### Rubber Flange Gaskets (Full Face)



Size	Part No.	(L)
50mm	FLG050FF	£1.60
65mm	FLG065FF	£2.15
80mm	FLG080FF	£2.40
100mm	FLG100FF	£2.95
125mm	FLG125FF	£3.65
150mm	FLG150FF	£4.65
200mm	FLG200FF	£4.95

Nuts, Bolts & Washers	Flange Size	Qty Required	(S)
Size M16 x 60mm	Up to 100mm	4 sets	£0.95 each
Size M20 x 75mm	Over 100mm	8 sets	£1.45 each

### Couplers for Irrifrance/Wright Rain type aluminium pipes

When ordering please specify if water meter is to be installed in an Irrifrance or Wright Rain aluminium pipeline.



PN16 Flanged Female Coupler		(L)
DN50 x 3" F	N/A	£36.25
DN65 x 3" F	N/A	£38.00
DN65 x 4" F	N/A	£42.75
DN80 x 4" F	N/A	£46.35
DN80 x 5" F	N/A	£58.60
DN100 x 4" F	N/A	£46.70
DN100 x 5" F	N/A	£58.95
DN125 x 4" F	N/A	£56.90
DN125 x 5" F	N/A	£69.20
DN150 x 5" F	N/A	£74.45



PN16 Flanged Male Coupler		(L)
DN50 x 3" M	N/A	£38.20
DN65 x 3" M	N/A	£39.95
DN65 x 4" M	N/A	£46.95
DN80 x 4" M	N/A	£50.60
DN80 x 5" M	N/A	£58.80
DN100 x 4" M	N/A	£50.95
DN100 x 5" M	N/A	£59.20
DN125 x 4" M	N/A	£61.15
DN125 x 5" M	N/A	£69.40
DN150 x 5" M	N/A	£74.70

## Gate Valves



Size	Part No	Price (L)
DN50	GVF050	£216.60
DN80	GVF080	£199.00
DN100	GVF100	£234.00
DN150	GVF150	£386.50
DN200	GVF200	£685.00

- Heavy duty ductile-iron construction
- Flanged and drilled to BS4504 PN16/11
- Designed to BS5163: 1986 type B
- Handwheel for valve opening/closing
- Open and Shut Indication as standard
- Maximum Pressure 16 bar
- Maximum Temperature +70°C

## Butterfly Valves



Size	Part No	Price (L)
DN50	BFV050	£47.00
DN65	BFV065	£55.00
DN80	BFV080	£63.00
DN100	BFV100	£95.00
DN125	BFV125	£130.00
DN150	BFV150	£164.00
DN200	BFV200	£170.00

- WRAS approved
- Wafer Pattern (fits between two flanges)
- Lever Operated
- Cast-iron body to BS1452 GR.220
- Epoxy coated
- Maximum Pressure 16 bar
- Maximum Temperature +95°C (continuous) or +120°C (intermittent)

## Check Valves



Swing Valve

Size	Part No	Price (L)
DN50	CVSWF050	£95.00
DN65	CVSWF065	£120.00
DN80	CVSWF080	£143.00
DN100	CVSWF100	£220.00
DN125	CVSWF125	£308.00
DN150	CVSWF150	£377.00
DN200	CVSWF200	£613.00

- Heavy-duty Cast-Iron GR.220 construction
- Epoxy coating, internally and externally
- Face to Face Dimensions to BS4504 Series 2
- Manufactured in accordance with BS5153
- Flanged and drilled BS4504 PN16
- Metal to Metal seat and disk
- Maximum Pressure 16 bar
- Maximum Temperature +120°C



Spring Valve

Size	Part No	Price (L)
DN50	CVSPF050	£190.00
DN65	CVSPF065	£190.00
DN80	CVSPF080	£285.00
DN100	CVSPF100	£395.00
DN125	CVSPF125	£680.00
DN150	CVSPF150	£850.00
DN200	CVSPF200	£1,355.00

- WRAS approved
- Heavy-duty Cast-Iron GG25 construction
- Epoxy coating, internally and externally
- Stainless Steel Spring
- Nitrile Seat
- Does not generate hammering
- Flanged and drilled BS4504 PN16
- Maximum Pressure 16 bar
- Maximum Temperature +100°C

## Check Valves - Ball Type

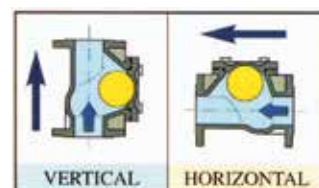


Threaded Fem BSP	Weight Kg	Part No	Price (L)
1 1/2"	2.4	CVBB040	£74.00
2"	3.6	CVBB050	£88.00



Flanged PN16	Weight Kg	Part No	Price (L)
DN65	14	CVBF065	£135.00
DN80	19.5	CVBF080	£171.00
DN100	23.5	CVBF100	£228.00

- Suitable for use with Waste Waters, Aggressive Liquids
- Heavy-duty cast-iron body
- Anti-clogging design provides a total free passage of waste fluid
- Self-cleaning action in presence of solids
- Horizontal or vertical installation
- Silent opening and closing
- No maintenance required
- 10 bar rated



## Check Valves



Swing Valve

Size	Part No	Price (L)
1/2"	CVSWB015	£11.85
3/4"	CVSWB020	£14.30
1"	CVSWB025	£20.45
1 1/4"	CVSWB032	£31.60
1 1/2"	CVSWB040	£41.80
2"	CVSWB050	£65.65

- Check Valve with internal Swing flap
- Bronze construction
- Gunmetal body
- Brass cap
- Metal to metal seat and disk
- Screwed-in cap
- Threaded BSP parallel
- Working pressure 16 bar max.



Spring Valve

Size	Part No	Price (L)
1/2"	CVSPB015	£5.50
3/4"	CVSPB020	£7.25
1"	CVSPB025	£10.00
1 1/4"	CVSPB032	£15.00
1 1/2"	CVSPB040	£19.00
2"	CVSPB050	£28.50

- Check Valve with Spring loaded piston
- Brass construction
- Stainless steel spring
- Horizontal or vertical use
- Threaded BSP parallel
- Pressure Rating: 1/2" - 1" 16 bar  
1 1/4" - 2" 10 bar
- Temp. Rating: -10°C to 110°C

## Gate Valves



Size	Part No	Price (L)
3/4"	GVB020	£8.30
1"	GVB025	£11.10
1 1/4"	GVB032	£17.70
1 1/2"	GVB040	£25.55
2"	GVB050	£43.75
2 1/2"	GVB065	£73.10
3"	GVB080	£92.50

- Brass construction
- Pressure and Temperature rating:
  - 16 bar from -10°C to 100°C
  - 7 bar at 170°C
- Manufactured to BS5154, PN16 series B
- BSP female threads



### Lever Ball Valves



Size	Part No	Price (L)
1/2"	BV015	£4.30
3/4"	BV020	£6.30
1"	BV025	£10.15
1 1/4"	BV032	£15.15
1 1/2"	BV040	£21.15
2"	BV050	£34.35
3"	BV080	£104.00
4"	BV100	£152.00

- Quarter turn ball valve
- Hard chromium plated ball
- Bi-directional flow for ease of installation
- Threaded BS21 Taper, female BSP
- Steel handle with yellow PVC sleeve
- Temperature range -20° to +170°C

### Mini Ball Valve



Size	Part No	Price (L)
1/4"	BVM008	£3.95
1/2"	BVM015	£4.75

- 1/4 turn mini valve, one piece body
- Hard chromium plated ball
- Bi-Directional flow for ease of installation
- Blow-out proof stem
- Male/Fem BSP threads
- Temperature range -20° to +90°C

### Pressure Relief Valves



Size	Part No	Price (Q)
1/2"	PRV012	£35.00
3/4"	PRV020	£39.00
1"	PRV025	£50.00
1 1/4"	PRV032	£70.00
1 1/2"	PRV040	£87.00
2"	PRV050	£115.75
2 1/2"	PRV065	£260.00
3"	PRV080	£275.00

- Brass construction
- Adjustable between 1 and 10 bar
- Temperature range -20°C to 110°C
- Female BSP threads

### Stop Tap Valve



ODø	Part No	Price (L)
20mm	TPLST020	£9.75
25mm	TPLST025	£13.85
32mm	TPLST032	£15.75
40mm	TPLST040	£19.30
50mm	TPLST050	£21.90
63mm	TPLST063	£32.70

- Compression stop valve for MDPE pipe
- Suitable for above/below ground installation

### Valve Boxes



Valve Boxes are ideal for locating and protecting valves, solenoids and water meters that are buried in commercial or residential turf areas.

Ruggedly constructed in green specially formulated load bearing, non-corrosive thermoplastic materials, these boxes nest for compact storage and are light and easy to handle.

Shape	Size	Type	Part No
Circular	6"	Economy	TIC100106
Circular	10"	Circular	TIC100110
Rectangular	15" x 10"	Standard	TIC100112
Rectangular	20" x 14"	Jumbo	TIC100150

### Pressure Gauges & Accessories



- Oil filled gauges
- Base connection
- Connection 1/4" MBSP thread
- Suitable for hard operating conditions



Gauge Needle

PC 3mm

PV 1/4" Male

- Fittings suitable for connecting to header pipes
- The Pressure Gauge connects to the top of Gauge Needle
- The Gauge Needle then push fits into the top of both the PC and PV connectors
- PC connector is 3mm barbed
- PV connector is 1/4" male threaded



CGF

CGM

- CGF 1/4" female/female threaded joiner
- CGM 1/4" male/female threaded joiner

Description	Ref	Part No	Price (L)
Pressure Gauge 0 - 6 bar		QG370601	£12.00
Pressure Gauge 0 - 16 bar		MPW19454	£32.10
Gauge Needle	PB1/4" F	QG370604	£1.50
Barbed Connector	PC3mm	QG370603	£1.50
Threaded Connector	PV1/4"M	QG370614	£1.50
Connector F/F	CGF1/4"	QG371111	£0.95
Connector M/F	CGM1/4"	QG371214	£1.10

### Air Release Valve

Designed to extract trapped air in pipes, filters, tanks or any other similar equipment which must work without the presence of air.

Valve		ARV-1K	ARV-1A	ARV-2KA
Max Pressure	BAR	15	12	15
Max Air Extraction	m³/h	50	73	1000
Inlet	BSP	1"M	1"M	2"M
Outlet	BSP	3/4" F	-	1 1/4" F
Part No.		URAV02110	URAV02010	URAV02020
Price (L)		£17.10	£30.45	£86.50



URAV02110

#### Kinetic Valve 1"

The valve performs two functions;

1. **Extracts trapped air** in pipes as they fill. When water reaches the inside of the valve, the float rises and closes the outlet.
2. **Prevents pipe collapse.**  
If depressurisation happens the float drops, opening the outlet and allowing air to enter the pipes, destroying the vacuum and returning atmospheric pressure to the inside of the pipe.



URAV02020

#### Automatic Valve 1"

#### Kinetic & Automatic Valve 2"

The valve performs three functions;

1. **Extracts trapped air** in pipes as they fill. When water reaches the inside of the valve, the float rises and closes the outlet.
2. **Prevents pipe collapse.**  
If depressurisation happens the float drops, opening the outlet and allowing air to enter the pipes, destroying the vacuum and returning atmospheric pressure to the inside of the pipe.
3. **Exerts continuous automatic venting control** eliminating any residual pockets of air that might reach the valve, as when this happens, the float drops, partially or totally opening the discharge outlet.



URAV02010



## Bareshaft Pumps

- The **Rovatti SK' series** offers a comprehensive range of bareshaft pumps for most agricultural and horticultural irrigation duties
- Below is a brief selection of pumps available within the range which are most suitable for irrigation applications
- Full performance details, specifications and prices on request. Selected models held in stock



## Flanged Pumps

- A comprehensive range of flanged pumps for direct mounting on diesel engines with SAE2-3-4-5 norm flanges and flywheels available
- Performances mirror those of the SK series, and many models are available equivalent to the complete SK series - full details and technical specifications and prices on request



## Bareshaft - SK150 series

- Larger series of bareshaft pumps
- One of the most important models for the agricultural market is the **S4K 150-240/4E** rated 3000 litres/min (180 m<sup>3</sup>/hr) @ 130metres/head, 1750 rpm, 82% efficiency
- Prices for this complete series are available on request



## Easy Maintenance with 'Twiner' System



- Rovatti patented 'Twiner' system**
- Supplied as standard on SK/FK pumps, models 100-125-150

SK100H & FK100H models are supplied with 'Cataphoresis' electro-chemically coated cast-iron impellers and diffusers; this protective coating **improves corrosion resistance** and the **quality of surfaces in contact with pumped water**

Bareshaft Pump	Flanged 'SK' Equivalent	Flanged SAE size (Coupling size)	Inlet x Outlet	Max m <sup>3</sup> /hr	Max mtr/hd	Optimal RPM	Bareshaft Part No.	Flanged Part No.
S2K 65/2	F52K 65/2	SAE5 (6½", 7½", 8")	65 x 50mm	50	145	2600 - 2900	RVB 065220	RVB 065225
S2K 80/2	F52K 80/2	as above	80 x 65mm	90	145	2600 - 2900	RVB 080220	RVB 080225
S3K 100/2	F33K 100/2	SAE3 (8", 10", 11½")	100 x 80mm	144	119	1800 - 2000	RVB 100320	RVB 100325
S3K 100H/2	F33K 100H/2	as above	100 x 80mm	144	119	1800 - 2000	RVB 100338	RVB 100339
S3K 100/3	F33K 100/3	as above	100 x 80mm	144	165	1800 - 2000	RVB 100330	RVB 100335
S3K 100H/3	F33K 100H/3	as above	100 x 80mm	144	175	1700 - 1900	RVB 100340	RVB 100345
S4K 100-160/4	F34K 100-160/4	as above	100 x 80mm	144	159	1750 - 2000	-	RVB 100350
S4K 125/2	F34K 125/2	as above	125 x 100mm	210	144	1600 - 1800	RVB 125420	RVB 125425
S4K 125/3	F34K 125/3	as above	125 x 100mm	210	158	1450 - 1600	RVB 125430	RVB 125435
S4K 150/2	F34K 150/2	as above	125 x 100mm	285	148	1600 - 1800	RVB 150420	RVB 150425
S4K 150-240/4	-	N/A	150 x 125mm	240	200	1600 - 1750	-	-

## Tractor PTO Pumps



T3-80A single stage pump



TK series 2-stage pump

Rovatti 'T' and 'TK' Europa series tractor PTO pumps are geared for drives up to 130 Hp. This series is ideally suited for a wide range of applications including the high heads often required for irrigation work. Prices for selected irrigation pumps shown below.



Self-Priming pump



Standard pump

Rovatti 'TO' and 'TOF' series are compact, user friendly pumps designed to satisfy a wide range of applications including water transfer and irrigation. Either standard (TOF-50) or self-priming (TOF-50A) models available. The 'TOF' pumps are mounted directly to the PTO shaft whereas 'TO' pumps are mounted via a PTO shaft.



MB series

Rovatti 'MB' series single-stage pumps offer high flow and low-head capabilities

- Flow range: 240 to 1020 m<sup>3</sup>/hr
- Heads: 26 to 7.5 metres

Heavy-duty cast-iron construction. DN200 or DN250 flanged inlet/outlet connections. Full specifications and prices on request.

Pump Model	Inlet x Outlet	Standard Ratio	m <sup>3</sup> /hr l/min	12 200	24 400	30 500	42 700	60 1000	105 1750	150 2500	180 3000
Option 1 = price for pump only. Option 2 = price for pump complete with 3-point linkage frame and PTO shaft.											
TOF-50	2" x 2"	1:7.77	m/hd	53.2	51.2						
TOF-50A	2" x 2"	1:7.77	m/hd	36.5	31.3						
T1-40	65 x 40mm	550 x 7	m/hd	105.5	102	98.5					
T2-65	65 x 50mm	545 x 6.43	m/hd		111.8	110.4	103				
T3-80A	80 x 65mm	501 x 6.38	m/hd				123	122	116.5		
T4-100	100 x 80mm	540 x 6.93	m/hd					127.5	125	117	100.5

## Slurry Pumps

This range of pump will handle sewage and animal effluents, with fibres and solids in suspension, in installations requiring high operating pressure and for irrigation applications. A brief outline of the complete range is shown below. Full details on request.

Pump Data	Series	TL	TLK(C)	SL	SLK(C)	SD
Maximum Flow	m <sup>3</sup> /hr	180	228	192	240	180
Maximum Head	metres	130	116	126	116	40
Maximum Power	kW	75	90	75	90	41
Passable Solids	mm	12-15	21-23	10-15	21-23	25-40
Solids Content without Chopper	%	8-12	8-12	8-12	8-12	15-20
Solids Content with Chopper	%	5-8	7-11	5-8	7-11	N/A
Number of Models Available		3	3	5	3	2
Mechanical Seal version		Yes	Yes	Yes	Yes	No
Gland Packing version		Yes	Yes	Yes	Yes	Yes
Inlet Connection Sizes		DN80-150	DN150	DN80-100	DN150	2½" -3½"



TL Pump with Mechanical Priming Kit (DAM-T)



TLK Pump with Mechanical Priming Kit (DAM-T), mounted on galvanised 3-point linkage frame with galvanised filter bowl assembly



TCK Chopper Cone

### Tractor PTO & Bareshaft Pumps (TL - SL series)

- All Orange Line slurry pumps have a high efficiency open impeller
- Tractor PTO driven pumps
- Several different gearbox ratio's available
- Bareshaft pumps suitable for connection to engines and electric motors via flexible coupler
- Operating range from 1450 to 3500RPM

#### Models

- TL - SL pumps are for sewage with high content of fibres in suspension and can be fitted with an optional chopper device (type TCK)
- TLK - SLK pumps come complete with an integral chopper device, supplied with or without blades, which allow the crumbling of solids into the pumped liquid
- TLKC - SLKC pumps supplied with hot galvanised cone with inlet valve and Bauer female quick coupler



SL Pump

### Bareshaft Pumps (SD series)

- Bareshaft pumps, with large flow open impeller, suitable for connection to engines and electric motors via flexible coupler
- Ideal for slurry with solids in suspension and particularly for drainage of cesspools with heavy, muddy and thick waters, or for special applications like husk, molasses, pulps, etc.
- These pumps cannot be equipped with a chopper device and are supplied with gland packing seal
- Operating range from 1450 to 2900 RPM



SD Pump

#### Chopper Device - type 'TCK'

The TCK chopper cone can be retro-fitted to the suction flange of TL and SL series. A shear screw and an elastic pin protect the chopper blades and elastic pin. The blade shaft receives motion from the pump shaft through a coupling connected to the impeller lock nut.

#### Chopper Device - series 'K'

TLK(C) & SLK(C) pumps incorporate a chopper device operating a first trituration by blade and counter-blade whilst further crumbling is made by the impeller vanes in contra-position to the particular shape of the wear plate. If the liquid being pumped is not particularly thick with fibres and solids, the blades can be removed thus saving absorbed power.

Prices shown below are for the Tractor PTO Pumps with gland packing seal; mechanical seal prices and prices for SL & SD series are available on request

Pump Model (Chopper Type)	m <sup>3</sup> /hr l/min	36 600	60 1000	84 1400	102 1700	114 1900	132 2200	168 2800	192 3200
TL2-85GA (+TCK)	m/hd	72.2	69.7	65.6	61.4				
TL3-80GA (+TCK)	m/hd	117	115	112	108	104			
TL4-100GA (+TCK)	m/hd		131	128	126	124	120	109	105
TL3K-80GA (+T)	m/hd	97	95.8	93.3	90.1	87.3	82	59.5	
TL4K-100GA (+T)	m/hd	116	115.6	114.2	112.8	111.8	108.2	86	
TL4K-125GA (+T)	m/hd	107	107	106	106	105	102	99	95

Performances for TLK pumps are the same as for TLK pumps

Pump Model (Chopper Type)	Wet x Outlet (DN) Standard	Wet x Outlet (DN) Pump Chopped
TL2-85GA (+TCK)	80 x 65	150 x 65
TL3-80GA (+TCK)	80 x 65	150 x 65
TL4-100GA (+TCK)	100 x 80	150 x 80
TL3K-80GA (+T)	150 x 65	150 x 65
TL4K-100GA (+T)	150 x 80	150 x 80
TL4K-125GA (+T)	150 x 80	150 x 80
TL3K-80CGA (+T)	150 x 65	150 x 65
TL4K-100CGA (+T)	150 x 80	150 x 80
TL4K-125CGA (+T)	150 x 80	150 x 80

Pump prices are with Gland Packing Seal, Mechanical Seal available on request

PTO pump accessories, see page 40

## Accessories for Tractor PTO Pumps



Orange Line PTO pump mounted on galvanised 3-point linkage frame

Pump Type	Series	3-Point Linkage (L)	2-Wheel Trolley	PTO Shaft (L)
TOF-50	Green Line	-	-	-
TOF-50A	Green Line	-	-	-
T1-40	Green Line	£395.00	POA	£265.00
T2-65	Green Line	£395.00	POA	£265.00
T3-80A	Green Line	£395.00	POA	£265.00
T4-100	Green Line	£395.00	POA	£540.00
TL2-85GA	Orange Line	£395.00	-	£265.00
TL3-80GA	Orange Line	£395.00	-	£265.00
TL4-100GA	Orange Line	£395.00	-	£540.00
TL3-K80(C)GA	Orange Line	£395.00	-	£265.00
TL4-K100(C)GA	Orange Line	£395.00	-	£540.00
TL4-K125(C)GA	Orange Line	£395.00	-	£540.00

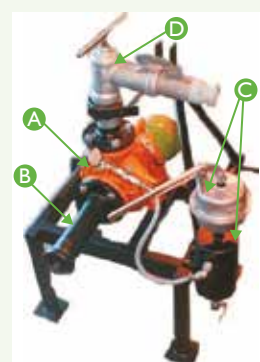
## Pump Suction Extension, Manual Priming Pump (SAM) & Filter

Pump Inlet Size	Bauer Female Coupler and Seal		
	108mm (L)	133mm (L)	159mm (L)
80mm	£380.00 (L)	£405.00 (L)	£425.00 (L)
100mm	£405.00 (L)	£425.00 (L)	£445.00 (L)
150mm	£435.00 (L)	£445.00 (L)	£470.00 (L)

The prices shown left are for a **Suction Extension with manual priming pump and filter**, prices for delivery fittings can be quoted for as required.

### Picture on the right illustrates

- A. Orange Line tractor PTO pump mounted on 3-point linkage frame
- B. Flanged suction extension with Bauer female lever-lock coupler with
- C. Manual priming pump (SAM) and filter
- D. Delivery fittings comprise of flanged valve hydrant, valve elbow and pipe adapter



## Priming Equipment



### Super Primer

- Automatic Priming Device
- 12 volt operation (10.8 amp)
- Primes a vertical 4" x 20ft suction pipe in two minutes
- Timer switch enables you to check for suction leaks while priming
- Flow switch to switch unit off when pump is primed
- Reduces pump wear and gland packing failure compared with engine powered priming pumps



### Exhaust Primer

- Fitted to the exhaust pipe on diesel engine pump units
- Uses the engine exhaust to operate a venturi mechanism to automatically prime the irrigation pumps suction pipe
- Once primed it is disengaged, ready for use next time



### Submersible Pump

- 12 volt operation, 0.27 Hp (175 watt) motor
- Compact electric submersible for clean water duties
- Open type impeller
- Built-in capacitor (with automatic resetting)
- 5 metre cable with crocodile clips
- Maximum water temperature +35°C
- Flow: 5 - 55 l/min (0.3 - 3.3 m³/hr)
- Max Head: 6 metres

## Rovatti Priming Pumps

Rovatti electric priming pump, type DAE

- 12 volt operation

Rovatti electric priming pump, type DAE

- Maximum power 1.8 kW

Rovatti mechanical priming pump, type DAM-T

- Manual vacuum pump and waste filter tank assembly
- The vacuum pump is PTO powered by belts/pulleys

Rovatti manual priming pump, type PAM

- With 1/2" hosetail connection



Manual Primer

Prices for Priming Pumps	Ref	Part Number	Price	Code
Super Primer, 12-volt		SP99100	£550.00	(Q)
Exhaust Primer c/w Lever		DEPEP5800146	£405.00	(L)
Submersible Pump Baby Battery		UP05	£120.00	(Q)
Rovatti Manual Priming Pump	PAM	RVZ21969E	£96.00	(L)

Suction and Delivery Assemblies and Fittings, details on pages 47-48





## RH & RHV series

- Heavy duty cast-iron submersible pumps for clean and waste waters
- Suitable for pumping sewage from residential, municipal and industrial waste water handling plants and high volume water transfer applications
- Stainless steel shaft, double mechanical seal with oil chamber
- Impellers are cast-iron; single-channel (closed), double-channel (open) or vortex
- 2, 4 or 6 pole electric motors available (D.O.L. standard, Star/Delta on larger models)
- Motors are 400v +/- 5%, protection IP68, insulation Class 'F'
- Oil chamber infiltrations and winding temperature monitoring probes as standard (+S) for connection into Klaxon relay on suitable control panels
- Flanged outlets DN65, DN80, DN100 and DN150
- 10 metres of H07RN-F cable supplied

### Options available at extra cost

- +P automatic coupling foot base for guide-rail system
- +C steel pedestal for free-standing installations
- +A1 bronze wear ring and viton gaskets
- +A2 technopolymer wear rings and viton gaskets

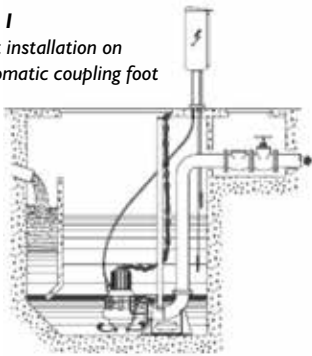
**Selected  
models  
available  
ex-stock**

### Suitable for:

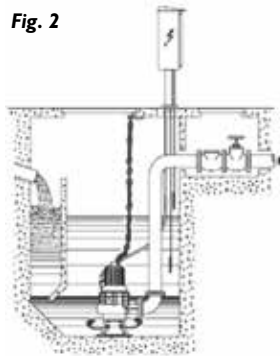
- Reservoir filling
- Priming for electric booster pumps
- High volume water transfer
- Sewage with solids and fibres
- Grey waters
- Recycled and active sludges
- Unscreened waters
- Contaminated water
- Rain water
- Animal slurries
- Industrial wastes
- Residential and industrial waste plants

Performance Ranges		RH	RHV
Impeller Type		Single or Double Channel	Vortex
Maximum Capacity	m <sup>3</sup> /hr	500	200
Maximum Head	metres	48	20
Maximum Power	kW	22	9.5
Liquid Temperature		40°C	40°C
Liquid Density	kg/m <sup>3</sup>	1010	1010
Maximum Diameter of Solids	mm	See Tables	See Tables
Maximum Starts Per Hour	up to 11 kW	15	15
Maximum Starts Per Hour	over 11 kW	10	10
Immersion Depth	metres	20	20

**Fig. 1**  
Wet installation on  
automatic coupling foot



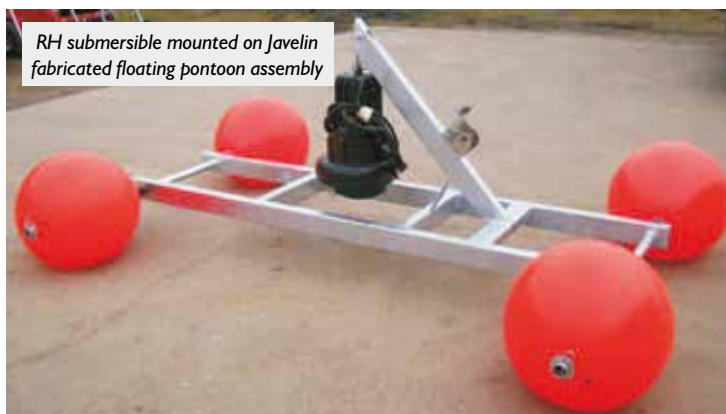
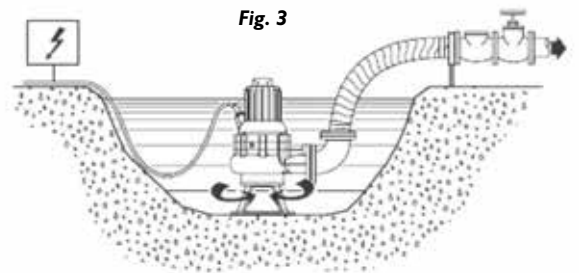
**Fig. 2**



**Fig. 2 & 3**

Free standing wet installation for rigid or flexible pipeline connection

**Fig. 3**



RH submersible mounted on Javelin  
fabricated floating pontoon assembly

Call us for a quotation of equipment built to customers individual requirements



RH80 pump with single-channel  
impeller installed at Bio-Digester  
Plant for one of Lincolnshire largest  
vegetable growers



RH80 pump lowered into its installed  
position with delivery pipework connected



**Single-Channel Impeller (closed)**  
For use with thicker liquids



**Double-Channel Impeller (open)**  
For use with thicker liquids



**Vortex Impeller**  
For use with drainage liquids  
and bigger solids

Single-Channel Impeller



## 2-Pole motor (2,900 RPM)

RH65 series

Table J	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	10 166	15 250	20 333	30 500	40 666	50 833	60 1000	70 1166	80 1333
RH65M/C-020	T2	2.0	2	4.6	DN65	42mm	m/hd	19.9	16.1	14	12.8	11.7	9	7.7	4.5		
RH65M/B-024	T2	2.4	2	5.3	DN65	42mm	m/hd	23.1	19.8	18	15.7	13.4	11	10	8.8	6	
RH65M/A-028	T2	2.8	2	6.1	DN65	42mm	m/hd	28.7	24.2	22.2	20.8	18	15.7	13.4	11.2	8.8	6

## 4-Pole motor (1,450 RPM)

Table K	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	4 66	8 133	12 200	16 266	20 333	24 400	28 466	32 533	36 600
RH65M/C-008	T4	0.8	4	2.4	DN65	42mm	m/hd	5.4	4.5	3.9	3.5	3.1	2.7	2.1	1.2		
RH65M/B-008	T4	0.8	4	2.4	DN65	42mm	m/hd	6.4	5.5	4.9	4.4	3.9	3.4	3	2.5	2	
RH65M/A-008	T4	0.8	4	2.4	DN65	42mm	m/hd	7.8	6.7	5.9	5.4	4.7	4.4	4	3.5	3	2.4

## 2-Pole motor (2,900 RPM)

RH80 series

Table L	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	20 333	30 500	40 666	50 833	60 1000	70 1166	80 1333	100 1667	140 2333
RH80M/D-075	T2	7.5	2	15.2	DN80	56mm	m/hd	33	28	26	23	22	20	18	17	14	
RH80M/C-085	T2	8.5	2	17.3	DN80	56mm	m/hd	37	32	29.5	27.5	26	24	22.5	21	18	11
RH80M/B-095	T2	9.5	2	19	DN80	56mm	m/hd	45	37.5	35	32.5	30	28	27	25	22	13.5
RH80M/A-115	T2	11.5	2	23	DN80	56mm	m/hd	48	41.5	38	36.5	34	32.5	31	29.5	27	19

## 4-Pole motor (1,450 RPM)

Table M	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	40 666	60 1000	70 1166	80 1333	90 1500	100 1667	105 1750	110 1833	115 1917
RH80M/D-020	T4	2.0	4	4.4	DN80	76mm	m/hd	9.4	6.5	5.3	4.5	3.6	2.3				
RH80M/C-020	T4	2.0	4	4.4	DN80	76mm	m/hd	11.8	7.6	6.4	5.7	4.9	3.8	2.5	1.7		
RH80M/B-025	T4	2.5	4	6.1	DN80	76mm	m/hd	13.7	9.1	8	7.4	6.7	5.7	4.6	3.9	3	
RH80M/A-025	T4	2.5	4	6.1	DN80	76mm	m/hd	15.3	10.7	9.2	8.5	7.8	6.7	5.7	5	4.4	3.6

## 6-Pole motor (960 RPM)

Table N	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	30 500	40 666	45 750	50 833	55 916	60 100	65 1083	70 1166	80 1333
RH80M/D-011	T6	1.1	6	3.3	DN80	76mm	m/hd	4.8	2.9	2.4	2.1	1.8	1.3				
RH80M/C-011	T6	1.1	6	3.3	DN80	76mm	m/hd	5.4	3.3	3	2.7	2.5	2.2	1.8			
RH80M/B-011	T6	1.1	6	3.3	DN80	76mm	m/hd	6.5	4.2	3.7	3.4	3.2	3	2.6	2.2	1.7	
RH80M/A-011	T6	1.1	6	3.3	DN80	76mm	m/hd	7.2	5	4.5	4.3	4	3.7	3.3	3	2.5	1.5

## 4-Pole motor (1,450 RPM)

RH100 series

Table O	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	60 1000	80 1333	100 1667	120 2000	140 2333	160 2667	180 3000	190 3167	210 3500
RH100M/D-025	T4	2.5	4	6.1	DN100	80mm	m/hd	11	7.6	6.7	5.8	4.9	3.7				
RH100M/C-035	T4	3.5	4	7.6	DN100	80mm	m/hd	15	9.8	8.9	8	7	5.9	4.2			
RH100M/B-045	T4	4.5	4	9.4	DN100	80mm	m/hd	18	12.2	11	9.9	9	8.1	7	5.1	3.9	
RH100M/A-052	T4	5.2	4	11	DN100	80mm	m/hd	20	13.5	12.4	11.5	10.7	9.9	9	7.6	6.7	4.2

## 6-Pole motor (960 RPM)

Table P	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	60 1000	80 1333	100 1667	120 2000	140 2333	160 2667	180 3000	190 3167	210 3500
RH100M/D-011	T6	1.1	6	3.3	DN100	80mm	m/hd	5.2	3.5	3	2.7	2.3	1.9	1.4			
RH100M/C-015	T6	1.5	6	4	DN100	80mm	m/hd	7	4.6	4.1	3.9	3.7	3.4	3.1	1.9		
RH100M/B-015	T6	1.5	6	4	DN100	80mm	m/hd	8.1	5.4	4.7	4.5	4.3	4.1	3.8	2.7	2	
RH100M/A-017	T6	1.7	6	4.4	DN100	80mm	m/hd	9.3	6.3	5.6	5.4	5.2	4.8	4.5	3.6	2.9	2

## Double-Channel Impeller



### 4-Pole motor (1,450 RPM)

RH150 series

Table Q	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	75 1250	100 1667	150 2500	200 334	250 4167	300 5001	350 5834	400 6668	475 7918
Model																	
RH150B/G-055	T4	5.5	4	12.5	DN150	80 x 140	m/hd	12	9	8.3	6.5	5	3.9	2			
RH150B/F-075	T4	7.5	4	16.5	DN150	80 x 140	m/hd	14	11	10	8.5	7.7	6.3	4.5	3		
RH150B/E-092	T4	9.2	4	19.8	DN150	80 x 140	m/hd	16	13	12.4	10	9	7.9	5.9	4.3	2.8	
RH150B/D-110	T4	11	4	23.5	DN150	80 x 140	m/hd	18	16.1	14.2	13	11	9.6	8	6	4	
RH150B/C-150	T4	15	4	30	DN150	80 x 140	m/hd	21	19.7	17.8	16	14.1	12.2	10.3	8.7	6.3	4
RH150B/B-185	T4	18.5	4	39	DN150	80 x 140	m/hd	23	21	19	17.5	15.8	14	12.1	10.2	8.2	4.9
RH150B/A-220	T4	22	4	45	DN150	80 x 140	m/hd	25	22.1	20	18.1	16.8	15.1	13.9	12	10.1	6.8

### 6-Pole motor (960 RPM)

Table R	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	50 833	75 1250	100 1667	125 2083	150 2500	200 3334	250 4167	300 5001	350 5834
Model																	
RH150B/C-035	T6	3.5	6	8.8	DN150	125 x 140	m/hd	8.1	6.8	6.1	5.5	4.4	3.4	2.1			
RH150B/B-055	T6	5.5	6	12.5	DN150	125 x 140	m/hd	10.2	8.7	8	7.5	6.9	6.4	5.3	4	2.3	
RH150B/A-075	T6	7.5	6	17	DN150	125 x 140	m/hd	11.5	10.3	9.7	9.1	8.7	8.1	7	5.7	3.9	1.7

## Vortex Impeller



### 2-Pole (2,900 RPM) motor

RH65 series

Table S	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	5 83	10 166	15 250	20 333	25 416	35 583	45 750	55 916	65 1083
Model																	
RH65V/D-020	T2	2.0	2	4.6	DN65	65mm	m/hd	10.8	10.2	9.8	9.1	8.4	7.7	6.1	4.5		
RH65V/C-024	T2	2.4	2	5.3	DN65	65mm	m/hd	13.2	12.5	11.8	11.1	10.2	9.4	7.6	5.8	4.1	
RH65V/B-028	T2	2.8	2	6.1	DN65	65mm	m/hd	14.9	14.4	13.7	12.9	12	11	9	6.9	5	
RH65V/A-032	T2	3.2	2	6.9	DN65	65mm	m/hd	18	17.4	16.2	15.4	14.3	13.2	10.8	8.4	6.2	4.2

### 4-pole (1,450 RPM) motor

Table S	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	10 166	20 333	30 500	40 666	50 833	60 1000	65 1083	75 1250	85 1416
Model																	
RH65V/C-013	T4	1.3	4	3.3	DN65	60mm	m/hd	8.9	7.9	6.9	6	5	3.9	2.9	2.3		
RH65V/B-017	T4	1.7	4	4.1	DN65	60mm	m/hd	10.2	9.4	8.5	7.7	6.7	5.6	4.4	3.9	2.7	
RH65V/A-022	T4	2.2	4	5	DN65	60mm	m/hd	11.7	10.8	10	9	8	6.9	5.8	5.2	4	2.8

### 4-Pole (1,450 RPM) motor

RH80 series

Table T	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	10 166	20 333	30 500	40 666	50 833	70 1166	90 1500	110 1833	130 2166
Model																	
RH80V/D-025	T4	2.5	4	6.1	DN80	80mm	m/hd	10.2	9.8	9.4	8.7	7.9	7	5.4	4		
RH80V/C-035	T4	3.5	4	7.6	DN80	80mm	m/hd	12.7	12.3	11.8	11.2	10.3	9.6	7.8	5.8		
RH80V/B-045	T4	4.5	4	9.4	DN80	80mm	m/hd	14.5	14.2	13.6	13	12.1	11.4	9.6	7.7	5.6	
RH80V/A-052	T4	5.2	4	11	DN80	80mm	m/hd	16.5	16.1	15.5	14.9	14.2	13.3	11.5	9.5	7.2	4.8

### 6-pole (960 RPM) motor

Table T	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	10 166	20 333	30 500	40 666	50 833	60 1000	70 1166	80 1333	90 1500
Model																	
RH80V/D-011	T6	1.1	6	3.3	DN80	80mm	m/hd	4.7	4.5	4.1	3.6	3.1	2.5	1.8			
RH80V/C-015	T6	1.5	6	4	DN80	80mm	m/hd	5.7	5.5	5.2	4.6	4.1	3.4	2.7	2.2		
RH80V/B-015	T6	1.5	6	4	DN80	80mm	m/hd	6.6	6.4	6	5.5	4.8	4.3	3.6	3	2.4	
RH80V/A-017	T6	1.7	6	4.4	DN80	80mm	m/hd	7.4	7.2	6.8	6.3	5.7	5.2	4.5	3	3.7	2.3

### 4-Pole (1,450 RPM) motor

RH100 series

Table T	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	40 666	60 1000	80 1333	100 1666	120 2000	140 2333	160 2666	180 3000	200 3333
Model																	
RH100V/C-065	T4+S	6.5	4	14.2	DN100	100mm	m/hd	15.4	14.2	13.2	12.1	10.9	9.5	8	6.6		
RH100V/B-080	T4+S	8	4	16.8	DN100	100mm	m/hd	17.9	16.8	15.9	14.8	13.5	12	10.5	9	7.2	
RH100V/A-095	T4+S	9.5	4	19.8	DN100	100mm	m/hd	20.4	19.2	18.2	17.2	16	14.5	13	11.3	9.6	7.8

### 6-pole (960 RPM) motor

Table T	3-Ph Model	Motor kW	Motor Pole	Motor Amps	Outlet Size	Solids ø	m³/hr l/min	0 0	10 166	20 333	30 500	40 666	50 833	70 1166	90 1500	110 1833	130 2166
Model																	
RH100V/C-035	T6+S	3.5	6	8.5	DN100	100mm	m/hd	7.1	6.9	6.7	6.5	6.1	5.8	5	4	3	
RH100V/B-035	T6+S	3.5	6	8.5	DN100	100mm	m/hd	8.2	8.1	7.9	7.6	7.4	7	6.3	5.4	4.5	
RH100V/A-035	T6+S	3.5	6	8.5	DN100	100mm	m/hd	9.3	9.2	9	8.8	8.5	8.2	7.5	6.5	5.3	4.1



### HS series

- Suitable for domestic waste water and filtered sewage, rainwater collecting and for general and emergency draining
- For clean water or sewage with solids and small residual fibres
- Stainless steel motor casing, heavy duty cast-iron pump body
- Vortex impeller of stainless steel, except for HS50V/A model which has cast-iron impeller
- Ceramic-graphite mechanical seal
- Internal capacitor in single-phase version
- Float switch supplied as standard on single-phase pumps (+G)
- For Performances and Prices see Tables E and F

### Use Limits

- Pumped liquid temperature max 40°C
- Liquid density max 1010 kg/m<sup>3</sup>
- Liquid pH 6-9
- Max solids diameter see table below
- Startings/hour max 30
- Immersion depth max 20m
- For continuous operation, within the allowed use limits, the submersible pump must be completely submerged

Table E	1-Ph Model	3-Ph Model	Motor kW	Outlet Size	Solids ø	m <sup>3</sup> /hr l/min	0	5	10	12.5	15	17.5	20	22.5	25	30	1-Ph (K)	3-Ph (K)
HS40V/F-006	M2+G	T2	0.6	1 1/2" V	35mm	m/hd	8	5.5	3.2	1.7							£386	£355
HS40V/E-009	M2+G	T2	0.9	1 1/2" V	30mm	m/hd	10.9	9	6.9	5.3	3.5	1					£490	£422
HS50V/D-009	M2+G	T2	0.9	2" V	40mm	m/hd	7.8	7	6.1	5.6	5.1	4.6	4	3.4	2.6	1	£543	£517

Table F	1-Ph Model	3-Ph Model	Motor kW	Outlet Size	Solids ø	m <sup>3</sup> /hr l/min	0	10	15	20	25	30	35	40	45	50	1-Ph (K)	3-Ph (K)
HS50V/C-011	M2+G	T2	1.1	2"H	50mm	m/hd	11.9	9.1	7.8	6.2	4.5	2.4					£716	£705
HS50V/B-015	M2+G	T2	1.5	2"H	50mm	m/hd	13.8	11.8	10.9	9.8	8.6	7.2	5.8	4	1.8		£876	£759
HS50V/A-022	-	T2	2.2	2"H	45mm	m/hd	20	17.3	16	14.8	13.5	11.9	10.1	8	5.8	3	-	£902



### Baby Battery (12 Volt)

Suitable for clean water applications including:

- Agriculture
- Gardens and Fountains
- Swimming Pools
- Bilges and Pits
- Domestic drainage

### Specifications

- 12-Volt (175 watt, 14 amp) portable, compact submersible pump
- Outlet 1" BSP
- Maximum size of passable solids 1.7mm
- Open type impeller
- Internal capacitor
- Pump body, casing, impeller and filter in heavy-duty plastic construction
- Motor shaft in stainless steel, double lip seal
- 5 metre electric cable with crocodile clips

Table D	m <sup>3</sup> /hr	0	0.6	1.2	1.8	2.4	3	Price (Q)
Baby Battery	m/hd	6.5	5.5	4.5	3.5	2.5	1.5	£120.00

### Accessories for Submersible Pumps



#### +P Auto Coupling Foot

With sliding bracket in cast-iron and upper support fixing pipes.

Type	For Pump	Price (K)
DN65 - 2"	RH65	£334.00
DN80 - 2"	RH80	£476.00
DN100 - 2"	RH100	£482.00
DN150 - 2"	RH150	£1090.00



#### +C Pedestal

Hot galvanised steel

Type	For Pump	Price (K)
Cav-80	RH80	£242.00
Cav-100	RH100	£242.00
Cav-150	RH150	£307.00

### Guide Rail Pipe

#### Connect to Auto Coupling Foot (+P)

Supplied in 6 metre lengths.

Size	Type of Pipe	Price (K)
3/4"	Hot Galv Welded	£46.00
1 1/2"	Hot Galv Welded	£94.00
2"	Hot Galv Welded	£123.00
3/4"	AISI 304	£118.00
1 1/2"	AISI 304	£207.00
2"	AISI 304	£322.00

### Fixing Kit for Auto Coupling Foot

Small block expansion for pedestal and rail pipe bracket.

Type	For Pump	Price (K)
DN65	RH	£146.00
DN80	RH	£146.00
DN100	RH	£146.00
DN150	RH	£146.00



Rovatti RH submersible pump mounted on +C galvanised steel base





## Jet

- Self-priming pump series
- Suitable for domestic installations, gardening, small-scale systems for agriculture, civil and industrial use, washing systems, etc.
- Continuous asynchronous motor
- Pump body and motor support in cast iron
- Built-in thermal and current overload protection and permanently on capacitor

## Active-Jl

- Self-Priming pump series
- **Compact pressure boosting system** comprising JetInox pump, motor and built-in control panel
- Operates automatically when there is a demand for water
- Helps increase pressure in storage tanks and supplying water from artesian wells in houses, farms, gardens, greenhouses, etc.
- Can even work when there are bubbles of air or gas present
- User-friendly control panel to adjust pressure set points and check operating status with LED's. Built-in check-valve and pressure gauge
- Dry running protection; automatically restores operation under normal conditions



## Aquajet

**Automatic Booster Sets** comprising:

- JET self-priming pump with pre-assembled 20 litre tank with inner butyl membrane
- Pressure switch for automatic operation
- Pressure gauge
- Fittings kit for between pump and motor

## Euro Inox

- **Multi-Stage Horizontal Pumps** suitable for domestic water supply and pressurisation, garden or vegetable garden irrigation and water transfer applications
- Self-priming pump
- Continuous asynchronous motor
- Incorporated thermal current protection and permanently connected capacitor
- Maximum working pressure: 8 bar



## Nova

- **Submersible Electric Pumps** suitable for cloudy water without fibres (drainage water from basements/garages, river water, clear waste water, etc.)
- Can also be used as a portable pump for emergencies such as lifting water from tanks/ponds, emptying swimming pools, fountains, etc.
- With or without float switch (MA with, MNA without)
- Built-in thermal and current overload protection
- Minimum suction depth;
  - Nova 180MA: 77mm
  - Nova 200MNA: 8mm
  - Nova 300MA: 85mm
  - Nova 600MNA: 38mm
  - Nova 600MA: 175mm
- Maximum immersion depth: 7 metres
- 5 or 10 metres of cable (dependent on model)
- IP68 protection, insulation Class F



## Nova "Salt"

- Submersible pump for **Salt Water** applications
- Ideal for bilges, sumps and transfer duties
- Anti-corrosive and rust-proof materials
- Made with composite industrial plastics
- Motor casing, shaft, screws and nuts made from AISI 316 stainless steel
- Motor with thermic overload protection
- Wear resistant shaft and impeller
- Excellent motor cooling allows pump to operate partially submerged
- Automatic version with float switch
- Maximum immersion depth: 7 metres
- 10 metres of H05RN-F rubber cable



## Divertron

- Submersible pressure booster pumps with built-in integrated electronics designed to start/stop pump automatically
- Built-in electronic pressure switch and flow sensor
- Equipped with dry run protection
- Integral non-return valve
- Models available with screen filter (Divertron) or stainless steel ring (Divertron X)
- Ideal for use with floating suction hose assembly in tanks and rainwater harvesting systems
- Supplied with 15 metres cable



Divertron & Divertron X models

For performances and prices see Table A

For performances and prices see Table B

Table A	Motor	Suction	Rated	Capacitor	Weight	m³/hr	0	0.6	1.2	1.8	2.4	3	3.6	4.2	Price
Model	kW	Delivery	Amps	uF	Kg	l/min	0	10	20	30	40	50	60	70	(N)
Active JI-82M	0.6	1" x 1"	3.8	12.5	10.7	m/hd	47	40	34	30	26.2	23.5	20.3		£444.00
Active JI-92M	0.75	1" x 1"	4.2	14	11.7	m/hd	36.2	33.5	31	28.4	26	24	21.8	19.6	£502.00
Active JI-102M	0.75	1" x 1"	5.1	16	12.5	m/hd	53.8	47	41	36.3	32.4	28.8	25.8		£473.00
Jet 82M	0.6	1" x 1"	3.8	12.5	10.7	m/hd	47	40	34	30	26.2	23.5	20.3		£227.00
Jet 102M	0.75	1" x 1"	5.1	16	12.5	m/hd	53.8	47	41	36.3	32.4	28.8	25.8		£254.00
Aquajet 82M	0.6	1" x 1"	3.8	12.5	18.2	m/hd	47	40	34	30	26.2	23.5	20.3		£363.00
Aquajet 102M	0.75	1" x 1"	5.1	16	20	m/hd	53.8	47	41	36.3	32.4	28.8	25.8		£418.00
Euro Inox 50/50M	1	1" x 1"	6.3	25	15.1	m/hd	72	68.5	65.5	62.1	58.2	52.2	43.6	34.5	£448.00

Table B	Motor	Free	Outlet	Weight	m³/hr	0	1.2	2.4	3	3.6	4.5	5.7	9	12.9	Price
Model	kW	Passage	Size	Kg	l/min	0	20	40	50	60	75	95	150	215	(N)
Nova 180MA	0.2	5mm	1 1/4"	4.6	m/hd	4.8	4.2	3.5	3.15	2.4	1.4				£148.00
Nova 200MNA	0.22	5mm	1 1/4"	4.5	m/hd	6.6	6.5	5.9	5.2	4.9	4.6	4	2.6		£188.00
Nova 300MA	0.35	10mm	1 1/4"	4.6	m/hd	6.8	6.7	6	5.8	5.6	5.1	4.6	3.4	1.8	£198.00
Nova 600MNA	0.8	10mm	1 1/4"	6.7	m/hd	10.2	9.5	9.1	8.9	8.7	8.3	7.8	6.6	4.8	£304.00
Nova 600MA	0.8	10mm	1 1/4"	7	m/hd	10.2	9.5	9.1	8.9	8.7	8.3	7.8	6.6	4.8	£314.00
Nova "Salt" MA	0.3	5mm	1 1/4"	3.9	m/hd	7	6.5	5.9	5.4	5	4.3	3			£166.00
Divertron 1000M	0.9	-	1"	11	m/hd	36	33	27	23	20	13	1			£462.00
Divertron X1000M	0.9	-	1"	11	m/hd	36	33	27	23	20	13	1			£507.00
Divertron 1200M	1.1	-	1"	11	m/hd	48	42	34	29	24	15	1			£497.00
Divertron X1200M	1.1	-	1"	11	m/hd	48	42	34	29	24	15	1			£535.00

MA - indicates pump with integral Float Switch, MNA- indicates pumps without Float Switch



## Varem Pressure Vessels



- Designed to work with booster pump systems
- Vertical and horizontal options
- Pressure rated 8 and 10 bar, 16 bar on request
- Replacable membrane with adjustable internal air pressures
- Stainless steel top and bottom flanges
- WRAS approved to drinking water standards
- Technical details and prices below



## Pressure Switches

- Adjustable mechanical pressure switches
- 6 and 12 bar, 20 bar available on request
- 1/4" BSP female threaded connection

Description	Part No.	Price (Q)
6 bar rated	DABP506	£40.00
12 bar rated	DABP512	£55.00

Type	Litres	Max Bar Rating	Height (mm)	Width (mm)	Connection	Temp Range	Weight (Kg)	Price (Q)
Vertical	2	10	240	125	1/2"	-10 to +99°C	1	£37.00
Vertical	8	8	330	200	3/4"	-10 to +99°C	3	£40.85
Vertical	20	8	492	250	1"	-10 to +99°C	6	£48.00
Vertical	60	8	845	382	1"	-10 to +99°C	17	£103.50
Vertical	100	10	950	450	1"	-10 to +99°C	25	£163.50
Vertical	200	10	1255	550	1 1/2"	-10 to +99°C	46	£281.50
Vertical	300	10	1405	630	1 1/2"	-10 to +99°C	59	£325.00
Vertical	500	10	1550	780	1 1/2"	-10 to +99°C	114	£516.50
Vertical	750	10	1940	780	1 1/2"	-10 to +99°C	162	£870.00
Vertical	1000	10	1970	930	2"	-10 to +99°C	214	£1570.00

Horizontal	20	8	290	492	3/4"	-10 to +99°C	6.3	£48.00
Horizontal	60	8	382	680	1"	-10 to +99°C	15	£103.50
Horizontal	100	10	450	780	1"	-10 to +99°C	25	£163.50
Horizontal	200	10	550	1030	1 1/2"	-10 to +99°C	46	£281.50
Horizontal	300	10	630	1185	1 1/2"	-10 to +99°C	60	£325.00



## Lifty (QARI-TA) control panels

- Suitable to control and protect a single Submersible Pump for drainage and emptying of dirty water or viscous liquids.
- Single or three-phase operation.
- 4 contacts available.
- Full details on page 49.



## Domino-UP control panels

- Suitable for the control of single Motors or Submersible Pumps where it is important to control dry running without using level sensors.
- Single or three-phase operation.
- 2 contacts for float and/or pressure switches.
- Full details on page 49.



## Float Switches

"Bip Stop" Float Level Switch c/w 3-core 1mm<sup>2</sup> neoprene cable.

"VR" version suitable for emptying and filling applications.

Ideal for regulation of small electric surface or submersible pumps and cellar type pumps.

Suitable for connection to QAR and Domino control panels.

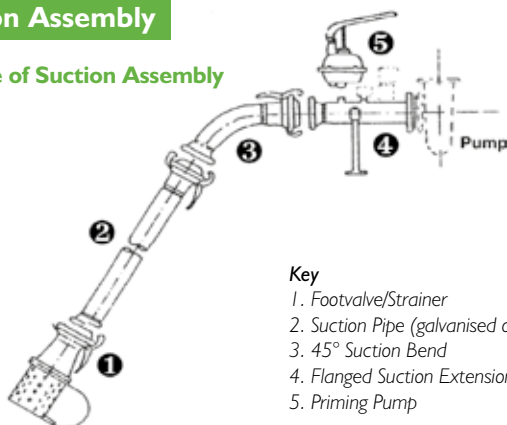
## Features

- Omni-directional (works regardless of its position)
- 5 bar maximum operating pressure
- Bioconical shape - no risk of clogging
- 110° differential angle compared to the standard 90° angle standard switches.

Cable Length	Part No.	Price (L)
1 metre	ATMI 01 MTR	£19.25
10 metre	ATMI 10 MTR	£34.95
Ballast Weight 175g	ATMI BW175	£9.20
10m float supplied as standard with weight		

## Suction Assembly

### Example of Suction Assembly



- Key**
1. Footvalve/Strainer
  2. Suction Pipe (galvanised or flexible)
  3. 45° Suction Bend
  4. Flanged Suction Extension
  5. Priming Pump

### Rigid Assembly comprising

Footvalve, 6 metre length suction pipe, 45° suction bend, suction extension, manual priming pump, nuts, bolts, washers and flange gaskets.

### Flexible Assembly comprising

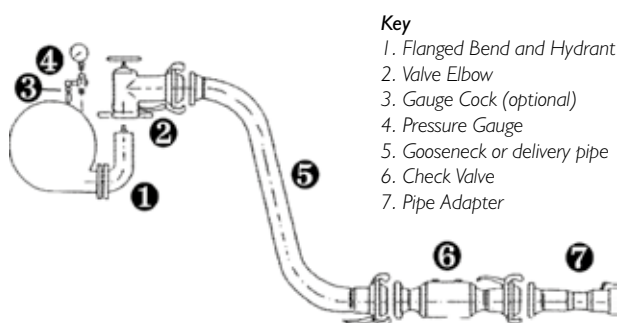
Footvalve, 6 metre length suction pipe, suction extension, manual priming pump, nuts bolts, washers and flange gaskets.

Size	Rigid Assy (L)	Flexible Assy (L)
3"	£470.00	£560.00
4"	£545.00	£630.00
5"	£638.00	£800.00
6"	£690.00	£875.00
8"	£936.00	£1,110.00

Prices for individual Suction items are shown on the right hand side of this page

## Delivery Assembly

### Example of Delivery Assembly (showing pump outlet turned through 90°)



- Key**
1. Flanged Bend and Hydrant
  2. Valve Elbow
  3. Gauge Cock (optional)
  4. Pressure Gauge
  5. Gooseneck or delivery pipe
  6. Check Valve
  7. Pipe Adapter

### Standard Assembly comprising

Flanged bend and hydrant, valve elbow, hose assembly, nuts, bolts, washers and flange gaskets.

### High Rise Assembly comprising

Flanged bend and hydrant, valve elbow, gooseneck, check valve, adapter, nuts bolts, washers and flange gaskets.

Size	Standard - Code (L)	High Rise - Code (L)
3"	£355.00	£475.00
4"	£405.00	£600.00
5"	£470.00	£720.00
6"	£490.00	£785.00

Prices for individual Delivery items are shown on the following page



### Rubber Flange Gaskets (Full Face)

See sizes and prices on page 48.



Footvalve	Part No.	(L)
Footvalve 76mm (3")	M652076	£66.20
Footvalve 108mm (4")	M652108	£91.10
Footvalve 133mm (5")	M652133	£125.80
Footvalve 159mm (6")	M652159	£182.10
Footvalve 194mm (8")	M652194	£285.30

With draining valve release and male lever coupler

## Wicker Strainer Baskets

Wicker basket strainers for use with Bauer type footvalves.



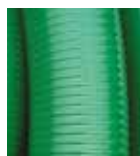
Dimensions	External (H x W)	Internal (H x W)	Weight
Medium basket	30cm x 30cm	25cm x 25cm	1.4 Kg
Large basket	49cm x 41cm	44cm x 35cm	2.9 Kg

Footvalve Size	Type	(L)
Up to & including 4"	Medium	AU00001 £95.00
For sizes 5" and over	Large	AU00002 £116.25



## Suction Pipe (Rigid), Galvanised Steel (L)

Bauer 76mm (3") x 6m c/w cplrs	M6020766	£71.00
Bauer 108mm (4") x 6m c/w cplrs	M6021086	£106.00
Bauer 133mm (5") x 6m c/w cplrs	M6021336	£137.00
Bauer 159mm (6") x 6m c/w cplrs	M6021596	£182.00
Bauer 194mm (8") x 6m c/w cplrs	M6021946	£355.00



## Suction Pipe (Flexible) (L)

3" flexible hose, medium duty	J555300	£10.10/m
4" flexible hose, medium duty	J555400	£17.45/m
5" flexible hose, heavy duty	J555500	£32.50/m
6" flexible hose, heavy duty	J555600	£49.95/m
8" flexible hose, heavy duty	J555800	£POA

Flexible suction hose can be supplied in lengths as required, specifications on Page 34. For Bauer male and female hosetail couplers and clips, see Pages 22-23 and 34.



## 45° Suction Bend (Galvanised) (L)

Bauer bend 45° x 76mm M/F cplr	M610076	£32.30
Bauer bend 45° x 108mm M/F cplr	M610108	£62.70
Bauer bend 45° x 133mm M/F cplr	M610133	£90.10
Bauer bend 45° x 159mm M/F cplr	M610159	£114.00
Bauer bend 45° x 194mm M/F cplr	M610194	£205.80

## Flanged Suction Extension

c/w socket for No-Flow Switch and brackets for Manual Priming Pump & Support Jack. Picture below shows suction extension complete with no-flow switch and priming pump, all connected to a Rovatti pump.



Description	(L)
DN50 Flg x 76mm (3") Bauer female	£208.00
DN65 Flg x 108mm (4") Bauer female	£242.00
DN80 Flg x 108mm (4") Bauer female	£242.00
DN80 Flg x 133mm (5") Bauer female	£252.00
DN80 Flg x 159mm (6") Bauer female	£272.00
DN100 Flg x 108mm (4") Bauer female	£262.00
DN100 Flg x 133mm (5") Bauer female	£272.00
DN100 Flg x 159mm (6") Bauer female	£283.00
DN125 Flg x 133mm (5") Bauer female	£299.00
DN125 Flg x 159mm (6") Bauer female	£304.00



## No-Flow Switch

This is operated by a loss of flow at the pump caused by either loss of pump prime or when the irrigation machine has completed its run. The unit is mounted in the suction pipe and can be adjusted to suit individual flows and pipe diameters. EP301200 £115.00(L)



## Priming Pump (Rovatti) (L)

c/w 1/2" hosetail connection	RVZ21969E	£96.00
Fittings Kit	RVZ21969K	£28.95

## Nuts, Bolts and Washers (S)

Nuts, Bolts & Washers M16 x 60mm	£0.95 each
Nuts, Bolts & Washers M16 x 75mm	£1.45 each

4 No. sets required for flanges up to and including 100mm  
8 No. sets required for larger flange sizes

# Suction & Delivery Equipment



## Flanged Bend and Hydrant

(L)

DN50 Flg x Bend & Hydrant 3"	£126.00
DN65 Flg x Bend & Hydrant 3"	£137.00
DN50 Flg x Bend & Hydrant 4"	£145.00
DN65 Flg x Bend & Hydrant 4"	£150.00
DN80 Flg x Bend & Hydrant 4"	£157.00
DN65 Flg x Bend & Hydrant 5"	£191.00
DN80 Flg x Bend & Hydrant 5"	£185.00

Standard Flanged Valve Hydrants for connection to pump outlets which have not been turned 90° are shown below.



## Flanged Valve Hydrant - Javelin type

(L)

DN50 Flg x Hydrant 3" FMLD	£103.00
DN65 Flg x Hydrant 4" FMLD	£112.25
DN80 Flg x Hydrant 3" FMLD	£108.10
DN80 Flg x Hydrant 4" FMLD	£116.35
DN100 Flg x Hydrant 3" FMLD	£122.05
DN100 Flg x Hydrant 5" FMLD	£156.40
DN125 Flg x Hydrant 5" FMLD	£157.90



## Flanged Valve Hydrant -Wright Rain type

(L)

DN50 Flg x Hydrant 3" RW	-	POA
DN65 Flg x Hydrant 3" RW	-	£77.45
DN65 Flg x Hydrant 4" RW	-	£87.45
DN80 Flg x Hydrant 3" RW	-	£80.80
DN80 Flg x Hydrant 4" RW	-	£90.80
DN100 Flg x Hydrant 4" RW	-	£97.00
DN100 Flg x Hydrant 5" RW	-	£107.00
DN125 Flg x Hydrant 5" RW	-	£122.80



## Valve Elbow

(L)

Vlv Elb 3" / FMLD3"	AFJ84119	£144.45
Vlv Elb 4" / FMLD4"	AFP96889	£153.75
Vlv Elb 5" / FMLD4"	AFK14867	£164.60
Vlv Elb 5" / FMLD5"	AFZ78380	£178.60
Vlv Elb 4" / LCM 108mm	AFH40073	£183.90
Vlv Elb 4" / RW4"	CRW200044	£128.85
Vlv Elb 4" / RW5"	CRW200045	£172.15
Vlv Elb 5" / RW5"	CRW200055	£166.05



## Gauge Cock (optional)

(L)

1/4 turn mini lever ball valve x 1/4" M/F	BVM008	£3.95
1/4 turn mini lever ball valve x 1/2" M/F	BVM015	£4.75



## Pressure Gauge

(L)

0-16 bar, 1/4" male BSP	MPW19454	£32.10
0-10 bar, 1/4" male BSP	QG370610	£12.00

## Pipe Adapters

Adapters can be made to order comprising of any combination of Irrifrance, Wright Rain or Bauer (lever coupler) type fittings.

Fittings are priced on an individual basis depending on the size and type of couplers used. Prices on request.

For example the fitting shown right comprises an Irrifrance FMLD male with a Bauer (lever coupler) male c/w lever ring.



## Rubber Flange Gaskets (Full Face)



Size	Part No.	(L)
50mm	FLG050FF	£1.60
65mm	FLG065FF	£2.15
80mm	FLG080FF	£2.40
100mm	FLG100FF	£2.95
125mm	FLG125FF	£3.65
150mm	FLG150FF	£4.65
200mm	FLG200FF	£4.95

Nuts, Bolts & Washers	Flange Size	Qty Required	(S)
Size M16 x 60mm	Up to 100mm	4 sets	£0.95 each
Size M20 x 75mm	Over 100mm	8 sets	£1.45 each



## Suction & Delivery Hoses

- Medium Duty (Green, 2-4") suction hose
- Heavy Duty (Grey, 5-6") suction hose
- Plasticised PVC hose with spiral reinforcement
- Suitable for use in irrigation, also for use on road tankers
- Can also be used as a Delivery hose
- Prices are per metre

Hose I.D.	Working Pressure	Burst Pressure	Hose Colour	Part No.	Clip Sizes	Per metre (L)
2"	5 bar	15 bar	Green	J555200	60 - 63mm	£5.75
3"	4 bar	12 bar	Green	J555300	86 - 91mm	£10.10
4"	3 bar	9 bar	Green	J555400	113 - 121mm	£17.45
5"	5 bar	15 bar	Grey	J555500	140 - 148mm	£32.50
6"	4 bar	12 bar	Grey	J555600	162 - 174mm	£49.95
8"	Information and prices on request					£POA



## Layflat Delivery Hoses

- High pressure, premium quality Oroflex hose for irrigation, sludge injection and compressed air
- Also suitable for use as a drag hose for dirty water
- Prices are per metre

## High Pressure Hose

Hose I.D.	Working Pressure	Hose Type	Hose Colour	Part No.	Clip Sizes	Per metre (L)
2"	20 bar	O/Flex 20	Yellow	DH17520	56 - 59mm	£10.95
3"	17 bar	O/Flex 20	Yellow	DH17530	80 - 85mm	£14.20
3 1/2"	15 bar	O/Flex 80	Black	DH17535	92 - 97mm	£25.80
4"	15 bar	O/Flex 20	Yellow	DH17540	104 - 112mm	£17.95
5"	15 bar	O/Flex 20	Yellow	DH17550	131 - 139mm	£25.80
6"	15 bar	O/Flex 20	Yellow	DH17560	162 - 174mm	£42.25

Other Oroflex delivery hoses are available of different pressure ratings, details and prices on request.



## Tricoflex Delivery Hoses

- Hard-wearing UV cover PVC flexible water hose
- Resistant to kinking and crushing
- Knitted reinforcement gives excellent performance
- Smooth inner lining for improved flow under high pressure
- Prices are per metre

Hose I.D.	Working Pressure	Coil Length (metres)	Hose Colour	Clip Sizes	Part No.	Per metre (Q)
1/2"	9 bar	25-50-100	Yellow	16 - 25mm	BFT012	£0.90
3/4"	9 bar	25-50-100	Yellow	16 - 25mm	BFT019	£1.50
1"	8 bar	25-50-100	Yellow	25 - 35mm	BFT025	£2.35
1 1/4"	8 bar	25-50-100	Yellow	30 - 40mm	BFT030	£3.65
1 1/2"	8 bar	25-50-100	Yellow	48 - 51mm	BFT040	£6.90
2"	8 bar	25-50-100	Yellow	60 - 63mm	BFT050	£9.00



## Hose Clips

- For use with layflat, suction and 'Tricoflex' type water hoses

Size (mm)	Part No.	(L)	Size (mm)	Part No.	(L)
16 - 25	TNC016025	£1.00	80 - 85	MIK 080085	£4.50
25 - 35	TNC025035	£1.10	86 - 91	MIK 086091	£4.50
30 - 40	TNC030040	£1.10	92 - 97	MIK 092097	£4.80
40 - 43	MIK 040043	£1.20	97 - 104	MIK 097104	£4.80
43 - 47	MIK 043047	£1.50	104 - 112	MIK 104112	£5.00
48 - 51	MIK 048051	£3.00	113 - 121	MIK 113121	£5.00
52 - 55	MIK 052055	£3.00	122 - 130	MIK 122130	£5.00
56 - 59	MIK 056059	£3.20	131 - 139	MIK 131139	£7.55
60 - 63	MIK 060063	£3.20	140 - 148	MIK 140148	£7.80
64 - 68	MIK 064068	£3.20	149 - 161	MIK 149161	£7.80
69 - 73	MIK 069073	£4.50	162 - 174	MIK 162174	£8.15
74 - 79	MIK 074079	£4.50	213 - 226	MIK 213226	£8.95

## Check Valve

(L)



c/w male and female lever (Bauer type) couplers

Check Vlv LC M/F 76mm	AFH33426	£95.00
Check Vlv LC M/F 108mm	AFG33494	£145.00
Check Vlv LC M/F 133mm	AFL55256	£190.00





### Domino - UP Control Panels

For the control of one Motor or Submersible Pump (single or three phase), where it is important to control dry running without using level sensors.

With 2 contacts for float or pressure switch operation.

For clean or dirty water applications depending on configuration selected.

- Power Input: 1-Phase 50-60Hz, 230v $\pm$  10%
- Power Input: 3-Phase 50-60Hz, 400v $\pm$  10%
- 2 inputs for start command, float switches and/or pressure switches
- N.I alarm output for maximum current, minimum cos  $\phi$ , minimum water level (settable)
- Push buttons for Auto-Off/Reset-Manual motor operation (manual temporary)
- **Green LED** for Auto operation
- **Green LED** for motor operating
- Multi-function display for the visualisation of: mains voltage, frequency, motor current and cos  $\phi$  and alarms
- Push buttons for protection restoration
- Push buttons for adjustments and set-up from display
- Adjustable electronic protection for motor overload (from keyboard)
- Time for activation of protection; 5 seconds
- Dry running protection adjustable from cos  $\phi$  0.1 - 0.99
- Automatic restore from dry running after 5, 30, 60 and 90 minutes
- Internal selector for automatic restoration of dry running every 90 minutes
- Motor protection for wrong phase sequence
- Reboot timer 10 seconds to prevent engine stutters
- Auxiliary circuits and motor protection fuses
- Main switch with door interlock
- Single-Phase version is pre-wired for capacitor insertion (capacitor not supplied, can be supplied at extra cost)
- ABS enclosure
- Output with cable holder
- IP55 protected
- Ambient temperature -5°C to +40°C
- Relative humidity 50% at 40°C (not condensed)



### Lifty I (QARI-TA) Control Panels

Suitable to control and protect one submersible pump (single or three phase) for drainage and emptying of dirty water or viscous liquids.

With 4 contacts for float switch start/stop, level alarm and Klixon motor.

Models also available for control of two submersible pumps (Lifty 2 model).

- Power Input: 1-Phase 50-60Hz, 230v  $\pm$  10%
- Power Input: 3-Phase 50-60Hz, 400v  $\pm$  10%
- Selector for AUTO-MANUAL-OFF motor operation
- On/Off Switch with Door Interlock
- **Green LED's** indicate
  - Power On - Auto Operation - Motor Operation
- **Red LED's** indicate
  - Level Alarm - Overload Motor Protection - Motor Klixon's active
- Low voltage inputs for:
  - Float switch stop - Float switch start
  - Max level alarm float switch - Klixon motor
- Push button for restoration from protection
- Adjustable motor protection: 2 < > 22A or 20 < > 44A
- Protection activation time: 5 seconds
- Auxiliary circuits protection fuse
- Motor protection fuses
- Alarm output with exchangeable contacts 16A250v (resistive load)
- Single-Phase version is pre-wired for capacitor insertion (capacitor not supplied, can be supplied at extra cost)
- Rugged ABS box
- Output with cable holder
- IP55 protected
- Ambient temperature -5°C to +40°C
- Relative humidity 50% at 40°C (not condensed)

### Lifty 2 Panels

- Suitable for the control of 2 submersible pumps
- Specifications as above except with exchange circuit with 4 second delay between start of the 2 pumps
- Full specifications and prices on request

Panel	Electric	Hp	kW	Voltage	Motor Amps	H x W x D (mm)	Weight Kg	Part No.	Price (L)
Domino-Up/M	1-Phase	0.5 - 3	0.37 - 2.2	230v $\pm$ 10%	2 - 16	310 x 230 x 180	1.5	MWR10115	£198.00
Domino-Up/T-10	3-Phase	0.75 - 10	0.55 - 7.5	400v $\pm$ 10%	2 - 15	310 x 230 x 180	2.5	MWR10118	£206.00
Domino-Up/T-15	3-Phase	10 - 15	7.5 - 11	400v $\pm$ 10%	16 - 24	310 x 230 x 180	3	MWR10119	£294.00
Domino-Up/T-20	3-Phase	10 - 20	7.5 - 15	400v $\pm$ 10%	16 - 30	310 x 230 x 180	3.5	MWR10120	£408.00

Panel	Electric	Hp	kW	Voltage	Motor Amps	H x W x D (mm)	Weight Kg	Part No.	Price (L)
Lifty I M/3	1-Phase	0.5 - 3	0.37 - 2.2	230v $\pm$ 10%	2 - 16	310 x 230 x 180	1.5	MWR01020	£181.00
Lifty I T/5.5	3-Phase	0.75 - 5.5	0.55 - 3.7	400v $\pm$ 10%	2 - 8	310 x 230 x 180	2	MWR01021	£243.00
Lifty I T/7.5	3-Phase	0.75 - 7.5	0.55 - 5.5	400v $\pm$ 10%	2 - 11	310 x 230 x 180	2	MWR01022	£251.00
Lifty I T/10	3-Phase	0.75 - 10	0.55 - 7.5	400v $\pm$ 10%	2 - 15	310 x 230 x 180	2.5	MWR01023	£270.00
Lifty I T/15	3-Phase	10 - 15	7.5 - 11	400v $\pm$ 10%	16 - 24	310 x 230 x 180	3	MWR01024	£316.00



### Flashing/Acoustic Alarm

- Visual and acoustic alarm
- 12, 24, 240v input
- Alarm rated 90dB @ 1 metre
- Electronic red flashing light
- ABS enclosure, IP55 protection
- Output box with cable holder
- Ambient temperature -5°C to +40°C
- Relative humidity 50% at 40°C (not condensed)

Model	Voltage	H x W x D (mm)	Weight Kg	Part No.	Price (L)
LSI-12	12	160 x 160 x 140	0.5	MWR10094	£90.00
LSI-24	24	160 x 160 x 140	0.5	MWR10095	£90.00
LSI-220	220	160 x 160 x 140	0.5	MWR10096	£90.00

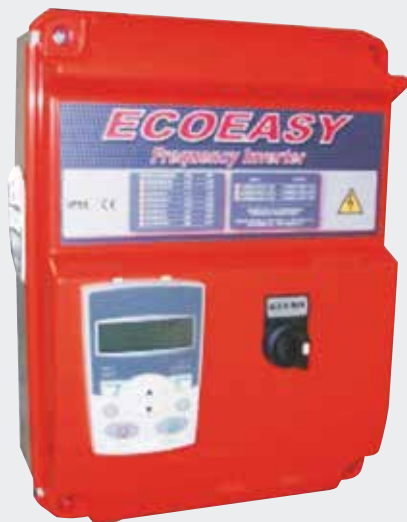
## EcoEasy - Variable Speed Control Panels

Electronic starter with frequency inverter for one three-phase pump with electronic ammetric protection.

The pump is started by an external input from the electronic pressure transducer (4-20mA). It is possible to set up independently the accelerating and decelerating ramps and all the functions are described in the external display.

The inverter can be controlled by a PC by connecting on the serial port RS232.

**Cost effective inverter for motors up to 4 kW**



### Technical Features

- Power supply;
  - MT230: IN1~50/60Hz 230v  $\pm$  10% - OUT3~230v (domestic use)
  - TT230: IN3~50/60Hz 230v  $\pm$  10% - OUT3~230v (domestic use)
  - TT400: IN3~50/60Hz 400v  $\pm$  10% - OUT3~400v (non-domestic use)
- One input for 'minimum' contact
- One input for start contact with select or for manual operation
- One analogue input 4-20mA (0-10V on demand)
- Auto-Off-Manual selector
- Frequency inverter with the following functions:
  - LCD alpha-numeric back-lit
  - Menu for function set-up
  - Display of main voltage • phase current • active and apparent power for each phase • COS  $\phi$  each phase • kWh
  - Sequential list of events
  - Accelerating and decelerating ramps with torque control adjustable by keyboard
  - 'PID' (proportional integrated derivated) regulation for changing the speed response and regulation of system
  - Remote control by computer connection and program RS232
  - Phase failure, min and max voltage, phase sequence protections
- Protection fuse
- ABS enclosure IP54, dimensions 340mm H x 240mm W x 170mm D; weight 3.5 or 4Kg
- Ambient temperature: -5°C to +40°C
- Relative humidity: 50% at 40°C (not condensed)

## Easy Inverter I - Variable Speed Control Panels

Control panels with frequency inverter for the control and protection of one 3-phase motor with electronic overload protection and control from 4-20mA signal. Panels for two and three 3-phase motors also available, prices on request.

**Inverter drive for motors up to 200 kW**



### Technical Features - Easy Inverter I

- Power supply: 3~50/60Hz 400v  $\pm$  10%
- Transformer 400 + 230/24v for auxiliary circuits
- One input for 'minimum' contact
- One input for start contact with selector for manual operation
- Analogue input 4-20mA (0-10V on demand)
- Selector 'Auto-Off-Manual' motor operation (manual stable)
- Motor and auxiliaries protection fuses
- Main switch with door interlock
- Metallic enclosure, IP54 rated
- Ambient temperature: -5°C to +40°C
- Relative humidity: 50% at 40°C (not condensed)

### Frequency inverter functions:

- LCD alpha-numeric back-lit
- Menu for function set-up
- Display of: main voltage • phase current • active and apparent power for each phase • COS  $\phi$  each phase • kWh
- Sequential list of events
- Data clock with buffer battery
- Accelerating and decelerating ramps with torque control adjustable by keyboard
- Set-up time of acceleration and deceleration 'PID' (proportional integrated derivated)
- Remote control by computer connection and program RS232
- Phase failure protection, min/max voltage protection, phase sequence protection
- Incorporated by-pass system

- The user must have suitable characteristics for inverter application
- Earth leakage for main supply protection must be 'A' type (for unidirectional pulsing current with continuous component and for alternate current) protected against sudden release of current with the possibility to select the intervention threshold (recommended 300mA) and the time of intervention at there lease (suggest 0.5secs)
- The expansion vessel is necessary for an exact reading of the pressure, it must be pre-charged at a pressure 30% lower than the working pressure of the system and installed near the pressure sensor

Javelin Irrigation Systems Ltd is a UK distributor of fixed and variable speed **Electrical Control Panels** from the Italian manufacturer **Four-Group**. As well as the panels shown on the previous pages, a brief summary of the many other panels for clean water pumps/motors are shown herewith. Full technical details and a complete price list for all models is available on request.



### EASY INVERTER 1, 2 and 3

Control panels with Frequency Inverter for control and protection of one, two or three 3-phase motors with electronic overload protection and control from 4-20mA signal.

Number of Motors:	1	2	3
Number of Inputs:	2	3	4
Number of Analog Inputs:	1	1	1

Panel Type	1-Ph power (kW)	3-Ph power (kW)	Amps (From)	Amps (To)
EasyInverter 1, 2, 3	-	1.1-200	1	368



Simplex

### SIMPLEX (Q1EP..TA)

Electronic panel with display for control and protection of one Single-phase or 3-phase motor with dry running protection by single-pole level probes.

### DUPLEX & TRIPLEX

Electronic panels with display for control and protection of two or three Single-phase or 3-phase motors with exchanger and ammetric protection.

Number of Motors:	1	2	3
Number of Inputs:	1	4	5
Number of Probes:	3	n/a	n/a



Duplex

Panel Type	1-Ph power (kW)	3-Ph power (kW)	Amps (From)	Amps (To)
Simplex/Duplex/Tripex	0.37-2.2	-	2	16
Simplex/Duplex	-	0.55	2	24
Tripex	-	0.55-7.5	2	15



### QS2EP..TA

Electronic panels for control and protection of two Single-phase or 3-phase motors with level control for level probes of min/max level, exchanger and ammetric protection.

Number of Motors:	2
Number of Inputs:	3
Number of Probes:	3

Panel Type	1-Ph power (kW)	3-Ph power (kW)	Amps (From)	Amps (To)
QS2EPM-TA	0.37-2.2	-	2	16
QS2EPT-TA	-	0.55-11	2	24



EDOL 1

### EDOL 1, 2 and 3

D.O.L. Electro-mechanical panels for control and protection of one, two or three Single-phase or 3-phase motors with thermal protection.

Number of Motors:	1	2	3
Number of Inputs:	2	4	6



EDOL 2

Panel Type	1-Ph power (kW)	3-Ph power (kW)	Amps (From)	Amps (To)
EDOL 1	0.37-2.2	-	3	18
EDOL 1	-	0.37-37	0.9	75
EDOL 2	0.37-2.2	-	3	18
EDOL 2	-	0.37-22	0.9	48
EDOL 3	0.37-2.2	-	3	9
EDOL 3	-	0.37-15	0.9	31



Easy Soft 1

**EASYSOFT 1, 2 and 3**

Electro-mechanical Soft-Start panels for control and protection of one, two or three 3-phase motors with thermal protection.

**SOFT 1, 2 and 3**

Electro-mechanical Soft-Start panels for control and protection of one, two or three 3-phase motors with overload protection.

Number of Motors:	1	2	3
Number of Inputs:	2	4	6



Soft 3

Panel Type	1-Ph power (kW)	3-Ph power (kW)	Amps (From)	Amps (To)
Easy Soft 1	-	5.5 - 22	6	45
Easy Soft 2	-	2.2 - 22	3	45
Easy Soft 3	-	2.2 - 22	3	45
Soft 1	-	7.5 - 220	9	365
Soft 2	-	7.5 - 220	9	365
Soft 3	-	7.5 - 220	9	365

**DELTA 1, 2 and 3**

Electro-mechanical Star/Delta panels for control and protection of one, two or three 3-phase motors with thermal protection.

Number of Motors:	1	2	3
Number of Inputs:	2	4	6

Panel Type	1-Ph power (kW)	3-Ph power (kW)	Amps (From)	Amps (To)
Delta 1, 2, 3	-	2.2 - 220	5	410

**STATOR I**

Electro-mechanical Statoric Impedance panels for control and protection of one 3-phase motor with thermal protection.

Number of Motors:	1
Number of Inputs:	2

Panel Type	1-Ph power (kW)	3-Ph power (kW)	Amps (From)	Amps (To)
Stator I	-	4 - 220	9	410

**DELTA I-TA**

Electronic Star/Delta panels for control and protection of one 3-phase motor with ammetric protection, level control and alarm output relay included.

**STATOR I-TA**

Electronic Statoric Impedance panels for control and protection of one 3-phase motor with ammetric protection, level control and alarm output relay included.

Number of Motors:	1
Number of Inputs:	2
Number of Probes:	1

Panel Type	1-Ph power (kW)	3-Ph power (kW)	Amps (From)	Amps (To)
Delta I-TA	-	15 - 110	2	200
Stator I-TA	-	15 - 110	2	200

All panels are supplied in basic standard specifications with optional extras available at additional cost to upgrade panel to the customers individual requirements.

Full specifications and details for all panels together with option prices available on request.





### Active Driver - Variable Speed Controller

Active Driver I device is an **innovative variable speed electric pump integrated control system**, capable of maintaining a constant pressure in relation to varied flow rates.

The set pressure can be adjusted and the various settings and related error warnings can be viewed, thanks to a simple and immediate user interface.

Active Drive I consist of; (A) an inverter; (B) a pressure sensor and (C) a flow sensor.

Active Driver I is equipped with a malfunctions **protection system**. In the event that a malfunction is verified, it is signalled on the display and, depending on the type of error, the electric pump can turn off.

• Dry running protection • Amp protection • Electric pump overheating protection • Protection against abnormal power supply voltages

Active Driver	Voltage		Max Motor Power	Max input Current	Inlet/Outlet Size	Advised Max Flow	Weight Kg	Price (N)
	Mains Supply	Pump Supply						
M/M 1.1	1-ph 230v	1-ph 230v	1.1 kW	8.5A	1 1/4" M x 1 1/2" F	15 m <sup>3</sup> /hr	3.65	£500.00
M/T 1.0	1-ph 230v *	3-ph 230v *	1.0 kW	4.7A	1 1/4" M x 1 1/2" F	15 m <sup>3</sup> /hr	3.65	£703.00
M/T 2.2	1-ph 230v *	3-ph 230v *	2.2 kW	9.3A	1 1/4" M x 1 1/2" F	15 m <sup>3</sup> /hr	3.65	£919.00
T/T 3.0	3-ph 400v	3-ph 400v	3.0 kW	6.8A	1 1/4" M x 1 1/2" F	15 m <sup>3</sup> /hr	3.65	£1,418.00
T/T 5.5	3-ph 400v	3-ph 400v	5.5 kW	13.3A	1 1/4" M x 1 1/2" F	15 m <sup>3</sup> /hr	3.65	£1,719.00

Suitable for all surface and submersible pumps.

\* For operation with 230v 3-phase motors

### Heron Controllers



#### Operation Specifications

- Controllers available in 4, 8, 12, 16 and 96 zones
- The MCI96 operates 16 valves as standard but can be expanded to 96 valves with additional output cards
- Menu driven with a four line alphanumeric display
- Valves can be individually named and can be placed in any order within an irrigation program
- 15 Irrigation programs and 60 automatic starts
- Automatic starts can be set on either a daily or weekly basis and any automatic start can start any program
- Up to 4 valves can run in parallel within a program or up to 4 irrigation programs can run in parallel
- Valve times can be set in minutes and seconds or hours and minutes
- The control of each program can be individually specified. For example, a program can be configured to ignore the manual percentage adjust facility
- Rainfall can be monitored and automatically reduce watering by a given percentage
- Back flush facility for filters
- Continual cycling of up to 8 programs. Cycling can be controlled by a combination of time and/or light energy. The cycling program can be assigned as having priority over other irrigation programs
- Fertigation option to support the dosing of feed
- With the addition of a flow meter, the controller can check that the water flow rate is within a specified range for each valve and log the volume of water used
- Operate as either a standalone irrigation controller or run from a PC using Heron's "Ground Control" software
- With the addition of the Heron Mobile Module controllers can be operated remotely via a mobile phone and text messages can be sent on alarm conditions

#### Hardware Specifications

- Output current 1.3 Amps (resistive) with electronic overload cut-out
- Two pump start outputs
- Remote start input, remote stop input and flow meter input
- One socket for connecting a range of interface boards to integrate the controller with sensors, additional switched inputs and Heron's dose controller. One serial connection to attach a PC
- Operate 24 Volt AC or DC valves
- MCI-96 will operate up to 96 valves with the addition of an Output Box and Expansion Cards
- Designed to operate in an industrial environment. High electrical noise immunity, can withstand a 2.5KV spike
- All outputs protected against electrical surges exceeding ANSI C62 surge suppression standards

Zones	Part No.	Price (P)
4	THMCI4AC	£204.00
8	THMCI8AC	£249.00
12	THMCI12AC	£307.00
16	THMCI16AC	£360.00

For more than 16 zones, prices on request

## Pressure, Temperature Switchgauges & Accessories



The OPL series Pressure SWITCHGAUGE® instruments are combination pressure indicating gauges with adjustable low and high limit switches. Limit switches can be wired directly to electric pilot circuits to operate alarms, shutdown or start/stop of engines and electric motors.

### OPLFC Pressure Gauge (above left)

- 4½" diameter switchgauge with hi-lo contacts, panel mounted, insulated return
- Gauge read 0-300psi (0-20 bar)

### OPLC-DPCO Pressure Gauge (above right)

- Monitors pump discharge pressure and signals throttle controller to adjust engine speed to meet demand
- Start/Run change-over switch ensures throttle is 'idle' when engine is started
- Works in conjunction with AT03069 throttle controller (see below)



**Pressure Gauge with front contact**  
**20P** 2" gauge, 0-100psi (0-7 bar)



**Pressure Switchgauges with adjustable hi-lo contacts**  
**20PHLK** 2" gauge, 0-200psi (0-14 bar)  
**20PHLK** 2" gauge, 0-300psi (0-20 bar)  
**A25PHLK** 2½" gauge, 0-14 bar

Temperature switchgauges operate on the same principle as the pressure switchgauges and can be used to monitor and control water/oil temperature



### 20T Water/Oil temp switchgauge, 2" dia.

- With front contact, 2 metre capillary and ½" NPT adapter bushing.
- Temperature range 50-120°C

(Longer capillary lengths and different sized adapters available)



### PD8183 Pulsation damper

- Pump pulsations which destroy geared movements on any pressure gauge should be dampened out
- It is recommended a pulsation damper be used in conjunction with the OPLFC switchgauges
- ¼" NPT connections



### AT03069 Throttle Controller

- Automatically controls the engine speed according to the systems needs and requirements, therefore reducing running costs and engine wear and tear
- Typically used to maintain pump pressure when using more than one irrigator
- Dual voltage - may be used with 12/24v systems
- Should be used with OPLC-DPCO switchgauge (see above)

Description	Murphy	Part No.	Price (Code)
0-300 psi Switchgauge 4½"	OPLFC	EPM300020	£140.00 (M)
Wall Bracket for OPLFC	MM324	EP301800	£20.00 (L)
0-300 psi Switchgauge	OPLC-DPCO	EPM600040	£195.00 (M)
0-100 psi Switchgauge 2"	20P	EPM300010	£33.50 (P)
0-200 psi Switchgauge 2"	20PHLK	EPM300030	£44.00 (P)
0-300 psi Switchgauge 2"	20PHLK	EPM300040	£49.00 (P)
0-14 bar Switchgauge 2½"	A25PHLK	EPM300050	£78.00 (M)
Water/Oil Temp Gauge	20T	EPM400010	£50.00 (P)
Pulsation Damper	PD8183	EPM600080	£54.00 (M)
Throttle Controller (Dual Voltage)	AT03069	EPM600030	£475.00 (M)

## Engine Shut Down



### RP75 12v Rack Puller with 1.2m cable

- Specifically designed for stationary diesel engines
- When a switchgauge detects a dangerous condition in an engine a magnetic switch is tripped, the mechanism is de-energised and pulls the fuel rack of the injection pump to a 'stop' or 'no fuel' position or to trip the air intake latch to a 'no air' position
- Manually reset



### Representative Solenoid (12v DC)

- Working on the same principle as above but electrically 'set' when the engine is started
- They should be installed by a qualified electrician



### Solenoid Valves

The Murphy SV solenoid valves cut off the fuel supply when the current is switched off by a magnetic switch 518APH.

Description	Murphy	Part No.	Price (Code)
Rack Puller 12v	RP75	EPM600010	£320.00 (P)
Rack Puller Cable 1.2m	40.01.0034	EPM600070	£56.00 (P)
RP Solenoid 12v DC	RP2309B	EPM600017	£79.00 (P)
Fuel Solenoid 12v	SV12	EPM600020	£105.00 (P)
Fuel Solenoid 24v	SV24	EPM600025	£102.00 (P)
Replacement coil (SV12)	-	EPM600060	£22.00 (P)

## Magnetic Switches



**518APH** - standard shutdown magnetic switch can be connected to any number of switchgauges or normally open switches.

**MS2110** - has dry contacts that can be used to make two circuits and break another when tripped. Operates from 12 or 24v DC or 24v AC.

Description	Murphy	Part No.	Price (Code)
12v Tattletale Relay	518APH	EPM600050	£42.00 (P)
24v Tattletale Relay	518APH	EPM600055	£40.00 (P)
Tattletale Relay	MS2110	EPM600058	£43.00 (P)

## Timers (Movement Only)



12/24 hour timer, 15 minute timer, hours run counter

Description	Murphy	Part No.	Price (Code)
24 hour Timer	24TM	EPM500010	£97.00 (M)
15 minute Timer	15TM	EPM500030	£83.00 (M)
Hours Run Counter	TM4594	EPM500040	£26.00 (P)

## Pressure Relief Valve



- Relieves over-pressure in a fuel system usually caused by closing of a solenoid valve. ¼" NPT threaded connections
- Opening Pressure 10 psi - Fully Opened 70 psi
- Maximum Static Pressure 150 psi

Description	Murphy	Part No.	Price (Code)
Pressure Relief Valve	PRV70	EPPRV070	£30.00 (P)
<b>Equipment for Engine Pump Units</b>			
Magnetic Pick-Up Speed Sensor	MP3298	EPM800000	£38.00 (P)
Engine Oil Pressure Sender	ES2P100	EPM300060	£28.00 (P)
Engine Temperature Sender	ES2TZ	EPM400020	£24.00 (P)
Pressure Transducer 0-200 psi	PXT200	EPM700000	£292.00 (P)

## IRRIGATION CONTROL PANELS & ACCESSORIES



IdroMOP Control Panel is an electronic unit dedicated to the management of engine driven pumps. A key benefit is the simple user friendly interface, where the operator can set the required parameters for the pump.

With a simple push and go type button function, there's no keyboard or touch screen to navigate around.

The optional GSM module allows the unit to be monitored and managed remotely from your mobile or smart phone. Additionally, the IdroMOP + GSM unit will automatically send a text message to confirm engine start/stop events and advise the reason for shutting down, these include; low delivery pressure, no flow, over speed, over pressure, coolant over temperature, low oil pressure, alternator/fan belt failure.



### FEATURES

- Manual/automatic functioning.
- Automatic regulation of the water pressure
- Complete engine protection monitors oil pressure, engine temperature, belt breakage, coolant level, coolant temperature, maximum RPM and system pressure.
- START / STOP irrigation by remote contact.
- Management of cooling and heating motor stages.
- 6 work daily/weekly programmes.
- Hours run counter and recurring maintenance.
- Timing set up to 48 hours.
- It is ideal for irrigation systems where there is more than one reel or sprinkler in operation, as the IdroMOP will automatically compensate the flow should one shut down.

The **Murphy Diagnostic Centre series** are suitable for irrigation pump control; supplied in either a basic unit (B0188) for mounting on irrigation pump units or in a (B4111) for mounting on pump units with acoustic canopy.

### Murphy Diagnostic Centre



- 33.400.689 Diagnostic centre
- Switchgauges 20P, 20T and OPLFC
- Low pump pressure override timer
- Hours to run timer
- Emergency stop button
- Key switch
- 5 x 'first out' tattletale
- B2MCG Utility oil line
- Anti-vibration mountings
- Charge lamp
- Pump pressure tubing kit

**B0188 Panel = £850.00 (M)**

### Murphy Diagnostic Centre



**33.400.689 Diagnostic Centre** as per the standard model, shown on left, but with a lockable weather-proof IP65 enclosure plus additional features;

- Hours run counter
- Provision for Throttle Controller (AT03069) and Switchgauge (OPLC-DPCO) and tachometer

This option should be chosen with the Throttle Controller if pump unit is working more than one hose reel irrigator.

**B4111 Panel = £1,050.00 (M)**

### WD100 12v Diagnostic Centre



- Switchgauges (Oil Pressure, Water Temperature)
- 518APH magnetic switch
- Tube kits for switchgauges
- Connections for remote shutdown signal equipment

**WD100 Panel = £265.00 (M)**

### WD270 Diagnostic Centre



- Switchgauges (Oil Pressure, Hi/Lo Pressure, Water Temperature)
- Emergency stop button
- 518APH magnetic switch
- Tube kit for switchgauges

**WD270 Panel = £330.00 (M)**

Description	Note	Murphy Ref	Part No.	PS660 Panels	B0188 Panel	B4111 Panels
Throttle Controller	*	AT03069	EPM600030	Yes	-	Option *
Magnetic Pick-Up Speed Sensor		MP3298	EPM800000	Yes	-	-
Engine Oil Pressure Sender		ES2P100	EPM300060	Yes	-	-
Engine Temperature Sender		ES2T2	EPM400020	Yes	-	-
Pressure Transducer (0-200psi)		PXT200	EPM700000	Yes	-	-
No-Flow Switch		-	EP301200	Yes	Yes	Yes
High/Low Pressure Switchgauge	*	OPLC-DPCO	EPM600040	-	-	Option *
Pulsation Damper		PD8183	EPM600080	-	Yes	Yes
Solenoid Valve (if required)	**	SV12 or SV24	EPM600020 or 25	-	Yes **	Yes **
Rack Puller (if required)	**	RP75	EPM600010	-	Yes **	Yes **

\* Throttle Controller (AT03069) is only required if the Diesel Pump Unit will be operating more than one Hose Reel Irrigator

\* Pressure Switchgauge (OPLC-DPCO) is only required when ordering the Throttle Controller (AT03069).

\*\* Depending on the type of engine will determine whether either a Fuel Solenoid Valve or Rack Puller is required

## Water Storage Tanks (Steel)



- Providing an economic and effective method for the accommodation of bulk water on a temporary or permanent site
- WRAS approved (certificate no. 0212105)
- Typically used for the storage of irrigation, process, potable or waste water and slurry; also for fish farming or as part of a recycling system
- Tank diameter range: 9ft - 60ft (2.74 - 18.29m)
- Tank height range: 2ft 6" - 15ft (0.76 - 4.57m); each ring is 2ft 6" high
- Tank capacity range: 4.49m<sup>3</sup> - 1,001m<sup>3</sup> (988 - 220,220 gallons)

### Construction

- Standard corrugated, galvanised curved steel panels with punched bolt holes (green coated panels optional)
- Selected tank sizes are listed below; price on request for other tank sizes within range

Tank Capacity		Tank Part Number	Diameter x Height	Standard Tank Kit (N)	Green Coated Tank Kit (N)	Butyl Liner		PVC 0.75mm (Q)	Flexi Polyprop 0.75mm (Q)	EPDM Liner	
m <sup>3</sup>	Gallons					0.75mm (Q)	1.0mm (Q)			0.75mm (Q)	1.0mm (Q)
9.1	1,980	TK09/2	9' x 5'	£391	£584	£324	£418	£214	£457	£270	£297
13.5	3,000	TK09/3	9' x 7'6"	£548	£838	£421	£542	£232	£481	£350	£385
16	3,500	TK12/2	12' x 5'	£520	£778	£378	£487	£278	£551	£315	£346
18	3,950	TK09/4	9' x 10'	£705	£1,091	-	£717	£319	£531	-	£510
24	5,280	TK12/3	12' x 7'6"	£730	£1,116	£482	£621	£380	£584	£401	£441
25	5,500	TK15/2	15' x 5'	£650	£972	£513	£661	£358	£652	£427	£470
32	7,000	TK12/4	12' x 10'	£939	£1,454	-	£807	£411	£643	-	£573
36	7,920	TK18/2	18' x 5'	£780	£1,166	£665	£857	£435	£759	£553	£608
37.5	8,250	TK15/3	15' x 7'6"	£912	£1,395	£643	£828	£438	£693	£534	£588
49	10,700	TK21/2	21' x 5'	£909	£1,360	£832	£1,073	£557	£923	£692	£762
50	11,000	TK15/4	15' x 10'	£1,173	£1,818	-	£1,061	£540	£758	-	£754
54	11,800	TK18/3	18' x 7'6"	£1,094	£1,674	£820	£1,056	£550	£807	£682	£750
64	14,090	TK24/2	24' x 5'	£1,039	£1,554	£1,016	£1,310	£807	£1,068	£845	£930
72	15,800	TK18/4	18' x 10'	£1,461	£2,234	-	£1,336	£680	£882	-	£949
73.5	16,180	TK21/3	21' x 7'6"	£1,275	£1,952	£1,013	£1,306	£666	£980	£843	£928
96	21,130	TK24/3	24' x 7'6"	£1,528	£2,302	£1,223	£1,576	£1,090	£1,160	£1,017	£1,120
100	22,000	TK30/2	30' x 5'	£1,298	£1,943	£1,433	£1,846	£982	£1,376	£1,192	£1,312
128	28,180	TK24/4	24' x 10'	£2,094	£3,125	-	£1,949	£1,492	£1,250	-	£1,385
144	31,700	TK36/2	36' x 5'	£1,664	£2,437	£1,914	£2,460	£1,508	£1,682	£1,592	£1,752
150	33,000	TK30/3	30' x 7'6"	£2,006	£2,972	£1,691	£2,179	£1,090	£1,483	£1,407	£1,548
182	40,040	TK33/3	33' x 7'6"	£2,006	£3,269	£1,950	£2,512	£1,221	£1,629	£1,622	£1,785
200	44,000	TK30/4	30' x 10'	£2,907	£4,196	-	£2,646	£1,244	£1,589	-	£1,879
216	47,560	TK36/3	36' x 7'6"	£2,746	£3,906	£2,224	£2,867	£1,859	£1,780	£1,850	£2,036
253.5	55,822	TK39/4	39' x 10'	£2,975	£4,231	£2,515	£3,241	£1,885	£1,991	£2,093	£2,303
288	63,400	TK36/4	36' x 10'	£3,828	£5,375	-	£3,426	£2,096	£1,903	-	£2,434
295	64,900	TK42/3	42' x 7'6"	£3,337	£4,691	£2,823	£3,637	£2,034	£2,205	£2,348	£2,584
393	86,460	TK42/4	42' x 10'	£4,699	£6,504	-	£4,290	£2,227	£2,344	-	£3,048

Tank Diameter	0.7mm Galvanised Sheet Steel Cover c/w 2 access hatches & ball valve cover				Anti-Algae Woven Polyprop Cover c/w Central Support		PVC Roof Cover (Green) c/w Central Support		PP Floating Woven Polyprop Cover c/w PVC tube & caps		PVC Bubble Floating Cover	
	Part No.	Std (N)	Part No.	Green (N)	Part No.	(Q)	Part No.	(Q)	Part No.	(Q)	Part No.	(Q)
9'	TC09G	£983	TC09G/CG	£1,345	TC09M	£243	TC09P	£517	-	-	TC09F	£77
12'	TC12G	£1,155	TC12G/CG	£1,580	TC12M	£289	TC12P	£639	-	-	TC12F	£140
15'	TC15G	£1,408	TC15G/CG	£1,807	TC15M	£373	TC15P	£747	-	-	TC15F	£218
18'	TC18G	£1,667	TC18G/CG	£2,139	TC18M *	£431	TC18P	£842	-	-	TC18F	£312
21'	TC21G	£2,488	TC21G/CG	£3,193	TC21M *	£495	TC21P	£994	-	-	TC21F	£429
24'	TC24G	£2,864	TC24G/CG	£3,676	TC24M *	£599	TC24P	£1,150	-	-	TC24F	£789
30'	TC30G	£5,142	TC30G/CG	£6,597	TC30M *	£777	-	-	TC30F **	£1,095	-	-
33'	TC33G	£5,804	TC33G/CG	£7,447	TC33M *	£885	-	-	TC33F **	£1,108	-	-
36'	TC36G	£6,701	TC36G/CG	£8,597	TC36M *	£1,022	-	-	TC36F **	£1,176	-	-
39'	TC39G	£8,307	TC39G/CG	£10,658	TC39M *	£1,128	-	-	TC39F **	£1,294	-	-
42'	TC42G	£9,630	TC42G/CG	£12,354	TC42M *	£1,280	-	-	TC42F **	£1,438	-	-

\* Anti-Algae Covers supplied with Central Support on tanks of 18ft diameter and over

\*\* PP Floating Covers c/w 40mm PVC tube and end caps



Steel Outlet Assemblies	Part No.	Bought without Tank & Cover (Q)
2" Outlet Assy (m/m)	TO11G	£75.00
3" Outlet Assy (m/m)	TO13G	£95.00
4" Outlet Assy (m/m)	TO14G	£230.00

One steel outlet, up to 4", is supplied free of charge when bought with a tank and cover. Larger steel outlets up to 10" diameter (flanged) also available, details and prices on request.



### Tank Enclosures

Steel Enclosure for securely enclosing all inlet pipework which can then be insulated. Stop cock can also be located at the base of enclosure. The enclosure is located on the side of the tank. Prices range from £85 to £133 (standard), prices for green enclosures on request.

### Accessories

- Details and prices on request for accessories including: PVC Tank Outlets, Tank Strainers, Ball Valves, Floats, etc.
- Details and prices for brass gatevalves to connect to Steel Outlet Assemblies (shown on left) can be seen on page 36.



- Delivery for all tanks and roof covers is **Free of Charge** to any destination except Cornwall, Ireland and anywhere north of the Scottish borders
- Installation can be carried out by qualified engineers, price on request, although full instructions are supplied with each tank for DIY installation





## Vertical water storage tanks

- Capacities up to 25,000 litres
- Suitable for Rainwater or Potable Water (WRAS approved)
- UV stabilised
- Vented lid and access point
- Strong lid structure
- Lid diameter 455mm (1,250 - 2,500 litres), 620mm (4,000 litres upwards)
- Positive tie down points
- Ribbed sides for extra strength
- Black as standard, other colours may take slightly longer to deliver
- Larger BSP outlets can be supplied at extra cost, price on application

**WRAS approved tanks available, price on request**



4 positive tie-down points on each tank

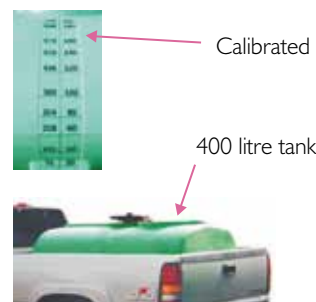
Litres	Gallons	Dia. x Height (mm)	Outlet Fitting	Black	Price (N)	White	Price (N)	Green	Price (N)	Grey	Price (N)
1,250	275	1,200 x 1,200	1½"	172205-Bk	£300	172205-Wh	£POA	172205-Gr	£POA	172205-Gy	£POA
2,500	550	1,400 x 1,800	1½"	172210-Bk	£420	172210-Wh	£POA	172210-Gr	£POA	172210-Gy	£POA
4,000	880	1,900 x 1,600	2"	172212-Bk	£590	172212-Wh	£POA	172212-Gr	£POA	172212-Gy	£POA
5,000	1,100	1,900 x 1,960	2"	172214-Bk	£780	172214-Wh	£POA	172214-Gr	£POA	172214-Gy	£POA
5,500	1,210	2,600 x 1,350	2"	172215-Bk	£880	172215-Wh	£POA	172215-Gr	£POA	172215-Gy	£POA
6,000	1,320	1,900 x 2,280	2"	172216-Bk	£930	172216-Wh	£POA	172216-Gr	£POA	172216-Gy	£POA
7,000	1,540	2,400 x 1,820	2"	172217-Bk	£980	172217-Wh	£POA	172217-Gr	£POA	172217-Gy	£POA
8,500	1,870	2,600 x 2,063	2"	172218-Bk	£1,200	172218-Wh	£POA	172218-Gr	£POA	172218-Gy	£POA
10,000	2,200	2,440 x 2,560	2"	172222-Bk	£1,280	172222-Wh	£POA	172222-Gr	£POA	172222-Gy	£POA
12,500	2,750	2,600 x 2,650	2"	172125-Bk	£1,750	172125-Wh	£POA	172125-Gr	£POA	172125-Gy	£POA
16,800	3,696	2,600 x 3,350	2"	172130-Bk	£2,200	172130-Wh	£POA	172130-Gr	£POA	172130-Gy	£POA
20,800	4,576	2,600 x 4,105	2"	172145-Bk	£2,500	172145-Wh	£POA	172145-Gr	£POA	172145-Gy	£POA
25,000	5,500	2,700 x 4,650	2"	172140-Bk	£3,400	172140-Wh	£POA	172140-Gr	£POA	172140-Gy	£POA



## Horizontal water storage tanks

- Capacities from 240 to 13,000 litres
- Suitable for liquid density up to 1.7 Kg/LitreSG
- UV stabilised to withstand the elements
- 4-point anchorage
- Integral baffle to reduce surge and increase stability
- Baffle balls supplied at extra cost (Small: £2.80; Large: £3.40; code N)
- Semi-opaque high-quality polyethylene inhibits development of algae
- Calibrated tank for measurement of contents
- Heavy-weight material construction
- Outlet size: 1½" (240 - 700 litres), 2" (1200 litres and above)
- Reliable, with 5-year guarantee

Litres	Gallons	Length x Width x Height (mm)	Lid Dia. (mm)	Black	Price (N)
240	53	925 x 710 x 510	255	174024	£POA
400	352	1,600 x 710 x 510	255	174040	£POA
500	110	1,190 x 1,050 x 530	255	171005	£290
700	154	1,190 x 1,050 x 725	255	171010	£362
1,200	264	1,700 x 1,320 x 770	455	171012	£POA
1,500	330	1,700 x 1,320 x 925	455	171015	£POA
2,000	439	2,050 x 1,420 x 1,200	455	171025	£880
3,000	659	2,500 x 1,700 x 1,090	455	171030	£1,280
4,000	879	2,960 x 1,450 x 1,500	455	171035	£1,590
5,000	1,100	2,500 x 1,700 x 1,690	455	171037	£1,880
6,000	1,319	3,300 x 1,900 x 1,750	455	171040	£2,250
8,000	1,759	3,300 x 1,900 x 1,990	455	171045	£2,640
10,000	2,199	4,200 x 1,900 x 1,800	455	171050	£3,350
13,000	2,859	4,200 x 1,900 x 2,200	455	171060	£4,100



400 litre tank

- All product prices include delivery to mainland UK excluding areas within the following postcode areas: ZE, KW, IV, SA, H, PH, PA, BT, DG, Northern Ireland & Republic of Ireland
- Delivery is usually with 5-7 days from date of order; if a timed delivery is required this will be chargeable extra, price on application.
- Offloading tanks at the delivery point is the client's responsibility and access for a 13.5m articulated lorry is required at the client's destination. Hiab or smaller vehicles can be arranged.

## Electric borehole pumps



### 4ES

Radial and mixed-flow wet-end centrifugal pumps with incorporated non-return valve and stainless steel external casing.

**Q max**  
24 m<sup>3</sup>/h

**H Max**  
322 m

**P2 Max**  
5.5 kW

**Size**  
4"

#### Features

- Thermoplastic resin hydraulic components
- Delivery and suction bowls in AISI 304 stainless steel
- Light pump
- Easy installation
- Coupling flanges according to NEMA norms

#### Typical applications

- Domestic water supply
- Fire fighting systems
- Pressure boosting
- Groundwater supply
- Irrigation systems

## Electric borehole pumps



### E - ER

Radial and mixed-flow wet-end centrifugal pumps with incorporated non-return valve.

**Q max**  
660 m<sup>3</sup>/h

**H Max**  
650 m

**P2 Max**  
250 kW

**Size**  
6" - 14"

#### Features

- Robust cast-iron construction
- Cast-iron delivery and suction bowls
- Wide range of models
- Coupling flanges according to NEMA norms
- Locked impellers by unified keys and shaft protecting spacer bushes
- High operating safety

#### Typical applications

- Domestic water supply
- Water supply
- Pressure boosting
- Groundwater supply
- Irrigation systems
- General industry

## Electric borehole pumps



### EC - ERC

Radial and mixed-flow wet-end centrifugal pumps with incorporated non-return valve and stainless steel external casing.

**Q max**  
84 m<sup>3</sup>/h

**H Max**  
650 m

**P2 Max**  
75 kW

**Size**  
6" - 8"

#### Features

- Thermoplastic resin hydraulic components
- Cast-iron or AISI 304 stainless steel delivery and suction bowls
- Easy installation
- Coupling flanges according to NEMA norms

#### Typical applications

- Domestic water supply
- Fire fighting systems
- Pressure boosting
- Groundwater supply
- Irrigation systems

## Electric borehole pumps



### EX - ERCX

AISI 316 micro-casted stainless steel radial and mixed-flow wet-end centrifugal pumps with incorporated non-return valve.

**Q max**  
840 m<sup>3</sup>/h

**H Max**  
690 m

**P2 Max**  
300 kW

**Size**  
8" - 14"

#### Features

- Wide range of models
- AISI 316 micro-casted stainless steel construction
- Corrosion and wear resistant components
- High operating safety
- Coupling flanges according to NEMA norms

#### Typical applications

- Municipal water supply
- Sea water applications
- Reverse osmosis systems
- Pressure boosting
- Groundwater supply
- Water treatment

## Vertical lineshaft pumps



### V

Vertical lineshaft pumps with flanged drive head for electric motors, horizontal right-angle gear, overgear driven by tractor PTO or vertical pulley.

**Q max**  
1200 m<sup>3</sup>/h

**H Max**  
310 m

**P2 Max**  
200 kW

**Size**  
6" - 16"

#### Features

- Robust cast-iron construction
- Wide range of models
- Locked impellers by unified keys and shaft protecting spacer bushes
- Mechanical seal or packed gland version
- Packed gland version available with the exclusive Twinner System

#### Typical applications

- Municipal water supply
- Fire fighting systems
- Cooling water systems
- Ground water supply
- Irrigation systems

## Vertical lineshaft pumps



### VX

Vertical lineshaft pumps entirely in AISI 316 micro-casted stainless steel with flanged drive head for IEC motors.

**Q max**  
170 m<sup>3</sup>/h

**H Max**  
240 m

**P2 Max**  
55 kW

**Size**  
6" - 8"

#### Features

- AISI 316 micro-casted stainless steel construction
- Corrosion and wear resistant components
- Adjustable cartridge mechanical seal
- Mechanical seal removal without motor disassembly
- Easy maintenance

#### Typical applications

- Municipal water supply
- Sea water applications
- Reverse osmosis systems
- Fire fighting systems
- Treatment plants
- Water treatment

## Vertical multi-stage electric pumps



### MEKVC

Centrifugal multi-stage pump body with overlapping threaded ports and IEC motor support.

**Q max**  
40 m<sup>3</sup>/h

**H Max**  
175 m

**P2 Max**  
7.5 kW

**Inlet**  
2" BSP

#### Features

- Thermoplastic resin hydraulic components
- Cast-iron base and motor support
- Mechanical seal
- Light pump
- Offset suction and delivery ports
- Compact construction
- 50/60 Hz supply

#### Typical applications

- Domestic water supply
- Fire fighting systems
- Conditioning systems
- Wash-down systems
- Pressure boosting
- General industry

## Vertical multi-stage electric pumps



### MEKVT-MEKV-MEKVI

Centrifugal multi-stage pump body with in-line threaded and flanged ports and IEC motor support.

**Q max**  
75 m<sup>3</sup>/h

**H Max**  
270 m

**P2 Max**  
37 kW

**Inlet**  
2" - BSP-DN 65

#### Features

- Thermoplastic resin hydraulic components
- AISI 304 stainless steel hydraulic components version
- Cast-iron base and motor support
- Mechanical seal
- Packed gland version available with the exclusive Twinner System®
- In-line suction and delivery ports
- 50/60 Hz supply

#### Typical applications

- Conditioning systems
- Wash-down systems
- Pressure boosting
- General industry
- Irrigation systems
- Water treatment

## Vertical multi-stage electric pumps



### MEKVX

Vertical multi-stage electric pumps in AISI 316 micro-casted stainless steel with flanged inline ports and IEC motor support.

**Q max**  
72 m<sup>3</sup>/h

**H Max**  
245 m

**P2 Max**  
30 kW

**Inlet**  
DN 65

#### Features

- AISI 316 micro-casted stainless steel construction
- Corrosion and wear resistant components
- Mechanical seal or packed gland version
- Packed gland version available with the exclusive Twinner System®
- High operating safety
- 50/60 Hz supply

#### Typical applications

- Sea water applications
- Reverse osmosis systems
- Conditioning systems
- Pressure boosting
- General industry
- Irrigation systems
- Water treatment



## Multi-stage electric pumps



### MEK - MEKV

Horizontal and vertical multi-stage centrifugal pumps with flanged ports and IEC motor support.

**Q max**  
**300 m³/h**

**H Max**  
**265 m**

**P2 Max**  
**162 kW**

**Inlet**  
**DN 65-100**

#### Features

- High efficiency
- Modular construction
- Mechanical seal or packed gland version
- Packed gland version available with the exclusive Twinner System®
- Easy maintenance with the Rapid Reset Kit
- IEC standard motors

#### Typical applications

- Municipal water supply
- Water supply
- Conditioning systems
- Wash-down systems
- Pressure boosting
- General industry
- Irrigation systems

## DIN standard close coupled pumps



### MNE

Close coupled pumps in compliance with EN 733 standards coupled to electric motors through rigid coupling. Axial inlet and scroll outlet.

**Q max**  
**390 m³/h**

**H Max**  
**105 m**

**P2 Max**  
**90 kW**

**Outlet**  
**DN 32-80**

#### Features

- High efficiency
- Back pull out design
- Mechanical seal or packed gland version
- Packed gland version available with the exclusive Twinner System®
- Easy installation
- Easy maintenance
- IEC standard 2 or 4 pole motors
- 50/60 Hz supply

#### Typical applications

- Water supply
- Fire fighting systems
- Conditioning systems
- Cooling water systems
- General industry
- Irrigation systems

## Single-stage close coupled pumps



### MEW

Electric close coupled pumps with keyed impeller on motor shaft. Axial inlet and scroll outlet.

**Q max**  
**180 m³/h**

**H Max**  
**65 m**

**P2 Max**  
**22 kW**

**Inlet**  
**DN 50-100**

#### Features

- Compact and robust monobloc construction
- Dynamically balanced keyed impellers on motor shaft
- Packed gland with the exclusive Twinner System®
- Easy installation
- 50 Hz 2 pole motors

#### Typical applications

- Water supply
- Domestic water supply
- Irrigation systems
- Liquid transfer
- Fire fighting systems

## DIN standard centrifugal pumps



### SNE

Single-stage bareshaft centrifugal pumps according to EN 733 standards. Axial inlet and scroll outlet.

**Q max**  
**725 m³/h**

**H Max**  
**150 m**

**P2 Max**  
**162 kW**

**Outlet**  
**DN 32-150**

#### Features

- High efficiency
- Back pull-out design
- Bearing lubrication options
- Mechanical seal or packed gland version
- Packed gland version available with the exclusive Twinner System®
- Easy maintenance
- 50/60 Hz (2 and 4 pole motors)

#### Typical applications

- Water supply
- Fire fighting systems
- Conditioning systems
- Cooling water systems
- General industry
- Irrigation systems

## Low and medium pressure pumps



### S - SQ - SP

Single-stage bareshaft centrifugal pumps with axial inlet and scroll outlet.

**Q max**  
**1020 m³/h**

**H Max**  
**130 m**

**P2 Max**  
**110 kW**

**Inlet**  
**DN 50-250**

#### Features

- Wide range of models
- Robust cast-iron construction
- Low NPSH
- Wide performance range
- Application flexibility

#### Typical applications

- Water supply
- Filling tanks and reservoirs
- Irrigation systems
- Liquid transfer
- Civil and industrial use

## High pressure pumps



### SK - SKD

Multi-stage bareshaft centrifugal pumps with single or double bearing support and axial or radial inlet.

**Q max**  
**360 m³/h**

**H Max**  
**500 m**

**P2 Max**  
**400 kW**

**Inlet**  
**DN 50-150**

#### Features

- High efficiency
- Single or double bearing support version
- Mechanical seal or packed gland version
- Packed gland version available with the exclusive Twinner System®
- Easy maintenance with the Rapid Reset Kit

#### Typical applications

- Water supply
- Wash-down systems
- Pressure boosting
- Snow making systems
- General industry
- Irrigation systems

## Flanged pumps for thermic engines



### FL

Single-stage and 2-stage centrifugal pumps with axial inlet and scroll outlet for direct coupling to thermic engines.

**Q max**  
**215 m³/h**

**H Max**  
**115 m**

**P2 Max**  
**37 kW**

**Inlet**  
**DN 50-100**

#### Features

- Wide range of models
- Robust cast-iron construction
- Reduced overall dimensions
- Easy installation
- Application flexibility
- Packed gland version available with the exclusive Twinner System®

#### Typical applications

- Fire fighting systems
- Filling tanks and reservoirs
- Spraying systems
- Liquid transfer

## Multi-stage flanged pumps for thermic engines



### F - FK

Multi-stage centrifugal pumps for direct coupling to thermic engines with SAE flange. Axial inlet and scroll outlet.

**Q max**  
**1020 m³/h**

**H Max**  
**210 m**

**P2 Max**  
**130 kW**

**Inlet**  
**DN 65-200**

#### Features

- Wide range of models
- Robust cast-iron construction
- Low NPSH
- Easy installation
- Application flexibility
- Packed gland version available with the exclusive Twinner System®

#### Typical applications

- Livestock systems
- Filling tanks and reservoirs
- Irrigation systems
- Spraying systems
- Liquid transfer

## Pumps with overgear



### T - TK - TO - MB

Single-stage and multi-stage centrifugal pumps with overgear driven by cardan shaft or PTO. Axial inlet and scroll outlet.

**Q max**  
**1020 m³/h**

**H Max**  
**170 m**

**P2 Max**  
**90 kW**

**Inlet**  
**DN 50-250**

#### Features

- Wide range of models
- Robust cast-iron construction
- Tested overgear water circulation cooling device
- Available with trolley or three-point mounting
- Application flexibility

#### Typical applications

- Livestock systems
- Filling tanks and reservoirs
- Irrigation systems
- Spraying systems
- Liquid transfer

## Waste water electric submersible pumps



### RHM - RHB

Professional electric submersible pumps with channel impellers for free standing installations or with automatic connection foot.

**Q max**  
**500 m³/h**

**H Max**  
**48 m**

**P2 Max**  
**22 kW**

**Outlet**  
**DN 65-150**

#### Features

- Single-channel or double-channel impellers
- Double mechanical seal
- Oil chamber infiltrations control probe and winding temperature control probe
- Robust cast-iron construction
- High operating safety
- Large solids passage
- 2, 4, 6 pole motors

#### Typical applications

- Treatment plants
- Livestock systems
- General industry
- Storm water collecting
- Liquid transfer
- Irrigation systems

## Waste water electric submersible pumps



### RHV

Professional electric submersible pumps with vortex impellers for free standing installations or with automatic connection foot.

**Q max**  
**200 m³/h**

**H Max**  
**20 m**

**P2 Max**  
**9.5 kW**

**Outlet**  
**DN 65-100**

#### Features

- Vortex impellers
- Double mechanical seal
- Oil chamber infiltrations control probe and winding temperature control probe
- Robust cast-iron construction
- High operating safety
- Large solids passage
- 2, 4, 6 pole motors

#### Typical applications

- Treatment plants
- Livestock systems
- General industry
- Storm water collecting
- Liquid transfer
- Irrigation systems

## Waste water electric submersible pumps



### HS

Electric submersible pumps with vortex impellers for pumping domestic sewage, rainwater collecting and general drainage.

**Q max**  
**50 m³/h**

**H Max**  
**20 m**

**P2 Max**  
**2.2 kW**

**Outlet**  
**1½" - 2" BSP**

#### Features

- Vortex impeller of stainless steel
- Ceramic-graphite mechanical seal
- Fixed or mobile wet installation
- Cast-iron construction
- Float switch option on single-phase pump
- 50mm max diameter of solids

#### Typical applications

- Domestic sewage
- Rainwater collecting
- General industry
- Emergency drainage



## Horizontal pumps



## Multi-stage flanged pumps for thermic engines



## Hydraulic motor driven pumps



### SL - SLK - SD - TL - TLK

Wide range of centrifugal pumps in different configurations: bareshaft for electric motors, Flanged for thermic engines or with overgear for tractor PTO.

**Q max**  
240 m³/h

**H Max**  
130 m

**P2 Max**  
90 kW

**Outlet**  
2½" - 3½" BSP  
DN 65-80

#### Features

- Robust cast-iron construction
- Versions with grinding system
- Versions with different priming systems
- Mechanical seal or packed gland version
- Wide range of models
- Available with trolley or three-point mounting

#### Typical applications

- Livestock systems
- Irrigation systems
- Liquid transfer

### SA - MEA - FLA

Range of centrifugal self-priming pumps in different configurations: Bareshaft, flanged for thermic engines and close-coupled with electric motors.

**Q max**  
155 m³/h

**H Max**  
75 m

**P2 Max**  
22 kW

**Outlet**  
1½" - 5" BSP

#### Features

- Robust cast-iron construction
- Open impeller with wear plate
- Mechanical seal
- Easy installation
- Application flexibility

#### Typical applications

- Construction site dewatering
- Wash-down systems
- Spraying systems
- Liquid transfer

### SAI

Centrifugal self-priming pumps for hydraulic motors.

**Q max**  
80 m³/h

**H Max**  
35 m

**P2 Max**  
7 kW

**Outlet**  
1½" - 3" BSP

#### Features

- Robust cast-iron construction
- Open impeller with wear plate
- Mechanical seal
- Easy installation
- Reduced overall dimensions

#### Typical applications

- Construction site dewatering
- Wash-down systems
- Spraying systems
- Liquid transfer

## TERMS AND CONDITIONS

This document is not in any way a contract. The prices quoted in this catalogue are correct at the date of printing. Prices are, however, subject to change without notice.

### PRICES

- Prices are List
- Prices are exclusive of VAT

### ORDER VALUES, DISCOUNTS & CARRIAGE

- Discount on orders over £50.00 list
- Discount is offered to Trade customers only
- The Code Letters shown next to prices are for internal reference only

### PLACING YOUR ORDER

Phone +44 (0) 1507 607175  
 Fax +44 (0) 1507 607521  
 Email [mail@javelinirrigation.co.uk](mailto:mail@javelinirrigation.co.uk)  
 Collection Monday - Friday; 8.00am - 5.30pm.  
 Saturday; please ask for details.

### PAYMENT TERMS

- 30 days from invoice date for approved account holders. We reserve the right to withhold supplies when accounts are overdue
- Cash, cheque or BACS transfer
- Credit and Debit Cards accepted
- Title of goods passes to the purchaser only on payment in full



## ORDER PROCEDURE

- When ordering please quote part number and reference, your order number and precise delivery instructions
- We can only accept delivery addresses for third parties (ie deliveries made to your customer on your behalf) providing that we have the **full address** including postcode together with a telephone number. This must either be the **telephone number** of the site address or a mobile number of the contact person
- Part numbers, where listed, are displayed in red and with the appropriate Javelin prefix

## DESPATCH

- Overnight/Next Day delivery requests **must** be received by midday
- All postal deliveries are despatched First-Class by either Recorded Delivery or Next-Day (9am or 1pm) Special Delivery

## DAMAGED GOODS

Any goods which have been delivered damaged must be signed for as damaged and notified to us within 7 days of receipt, otherwise no claims can be accepted

## GOODS RETURNS

- We are unable to accept returns without prior agreement
- All goods are to be accompanied by an official Javelin Returns Note
- Returns will be subject to a handling charge

## SPECIAL ORDERED ITEMS

Items which are specially ordered/fabricated **cannot** be returned for credit

## SPECIAL OFFERS

*There are many items available at Special Nett Prices throughout the year, please contact us for details.*

## Conversion Factors

From	To	Multiply By
<b>VOLUME</b>		
Cubic Metre	Gallon (Imp)	220
Gallon (Imp)	Cubic Metre (m³)	0.004545
Gallon (Imp)	Litre	4.546
Gallon (Imp)	Gallon (US)	1.2
Litre	Gallon (Imp)	0.220
Litre	Cubic Metre (m³)	0.001
<b>FLOW</b>		
Gallon/minute (Imp)	m³/hr	0.273
Gallon/minute (US)	m³/hr	0.227
Gallon/minute (Imp)	ltr/min	4.546
Gallon/minute (Imp)	ltr/sec	0.0757
Gallon/hour (Imp)	m³/hr	0.00455
Gallon/hour (US)	m³/hr	0.038
m³/hr	ltr/min	16.67
m³/hr	ltr/sec	0.278
m³/hr	gallon/min (Imp)	3.67
ltr/sec	m³/hr	3.6
ltr/min	m³/hr	0.06
l/min	gallon/hour (Imp)	13.2

## Conversion Factors

From	To	Multiply By
<b>AREA</b>		
Acres	Hectare	0.4047
Acres	Square Metre	4046.7
Hectare	Square Metre	10,000
Hectare	Acres	2.471
Square Feet	Square Metre	0.0929
Square Metre	Square Feet	10.76
<b>LENGTH</b>		
Foot	Inch	12
Foot	Metre	0.3048
Inch	Centimetre	2.54
Kilometre	Mile	0.62137
Mile	Kilometre	1.609
<b>PRESSURE</b>		
PSI	Bar	0.068
Bar	PSI	14.7
<b>POWER</b>		
kW	Hp	1.341
Hp	kW	0.7457

## Pipe Resistance Chart

Flow L/min	Pipe ½"	Pipe ¾"	Pipe 1"	Pipe 1 ¼"	Pipe 1 ½"	Pipe 2"	Pipe 2 ½"	Pipe 3"
30	70	16.5	5.3	1.4	0.7	0.2		
40		28	9	2.3	1.2	0.3		
50		42	13	3.5	1.8	0.5	0.15	
60		58	18	5	3	0.7	0.2	
70		76	24	6.5	3	0.9	0.2	0.1
80			30	8	4	1.2	0.3	0.16
90			38	9	5	1.5	0.45	0.23
100			46	11	6	2	0.5	0.2
125			70	17	9	3	0.8	0.3
150				25	12	4	1.2	0.5
175				33	16	6	1.5	0.6
200				42	21	7	2	1

→ Pressure Loss in Metres Head per 100m run

## Cable Recommendations for Electric Motors (Single-Phase)

Maximum Length of Cable in Metres							
Motor (kW)	Volt (V)	Cable 1.5mm²	Cable 2.5mm²	Cable 4mm²	Cable 6mm²	Cable 10mm²	Cable 16mm²
0.37	230	80	130	230	350	580	1000
0.55	230	55	90	140	200	350	700
0.75	230	40	65	105	160	300	500
1.1	230	30	50	75	115	190	400
1.5	230	25	35	60	90	145	230
2.2	230	-	30	50	70	120	185



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**Please contact us at any time when you need help or assistance with any aspect of irrigation and pumping equipment, large or small**

Agricultural Irrigation • Turf Irrigation • Garden Irrigation  
Slurry Dispersal • Clean Water Pumps • Dirty Water Pumps  
Diesel Engine Pumps • Dust Suppression • Pipes and Fittings  
Hoses & Fittings • Valves & Equipment • Water Meters  
Engine Monitoring • Control Panels & Inverters  
Rainguns • Sprinklers • Water Storage Tanks



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