

JAVELIN

IRRIGATION SYSTEMS LIMITED

PRODUCT GUIDE 2022

JAVELINIRRIGATION.CO.UK



PLEASE CONTACT US FOR FULL SPEC ON ANY OF OUR MACHINERY

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JAVELIN

IRRIGATION SYSTEMS LIMITED

WELCOME TO THE JAVELIN PRODUCT GUIDE 2022

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.

04-14 AGRICULTURAL MACHINERY

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

16-21 TURF IRRIGATION EQUIPMENT

- Speedy Rain Mini Hose Reel Irrigators • Mini Irrigation Booms • Rain-Mobile Self-Travelling Irrigator
- Slow Return Rainguns • Sprinklers

24-41 PIPES, FITTINGS & ACCESSORIES

- 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

44-54 PUMPING EQUIPMENT

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

56-62 MONITORING & CONTROL EQUIPMENT, ACCESSORIES

- Float Switches • 4-Group & DAB Control/Starter Panels & Variable Speed Drives
- Murphy Engine Monitoring Equipment and Accessories

64-65 WATER STORAGE TANKS

- Galvanised Water Storage Tanks, Liners, Roof Covers and Outlet connections
- Plastic Water Storage Tanks (Vertical and Horizontal)

68-75 ROVATTI PUMPS

- Complete range of Rovatti Centrifugal Pumps

76-79 USEFUL INFORMATION & A-Z INDEX

- Order Information • Conversion Factors and Useful Information • Javelin Trailer Charges • Notes • A-Z Index

AGRICULTURAL MACHINERY

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- JAVELIN HOSE REEL IRRIGATORS (RM & IRRIFRANCE)
- IRRIGATION BOOMS
- SOLID SET SPRINKLER EQUIPMENT



HOSE REEL IRRIGATORS

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.

DVD AVAILABLE ILLUSTRATING THE FULL RANGE OF JAVELIN/RM FREE HOSE REEL IRRIGATORS, CALL US FOR A COPY

IRRIFRANCE HOSE REEL IRRIGATORS



- 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

PDF 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

PDF LITERATURE AVAILABLE

RM HOSE REEL IRRIGATORS – GX SERIES – 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
RM 540GX	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	–
RM 560GX	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	Ultra 101VA	Turbine	Yes	–
	75/250	14 – 34	7.9			•	20m	Ultra 101VA	Turbine	Yes	–
	82/160	23 – 48	11.1	•			20m	Ultra 101VA	Turbine	Yes	–
RM 570GX	75/320	14 – 35	8.1			•	30m/Liquo	Ultra 101VA	Turbine	Yes	–
	75/350	14 – 34	7.9			•	30m/Liquo	Ultra 101VA	Turbine	Yes	–
	82/270	18 – 43	10.0		•		30m/Liquo	Ultra 101VA	Turbine	Yes	–
	82/300	18 – 43	10.0			•	30m/Liquo	Ultra 101VA	Turbine	Yes	–
	90/220	31 – 65	5.1	•			30m/Liquo	Ultra 101VA	Turbine	Yes	–
	90/240	31 – 65	15.1		•		30m/Liquo	Ultra 101VA	Turbine	Yes	–
	90/260	31 – 65	15.1			•	30m/Liquo	Ultra 101VA	Turbine	Yes	–
RM 581GX	82/350	22 – 48	11.1			•	30m/40m/Liquo	Ultra 101VA	Turbine	Yes	–
	82/400	14 – 35	8.1			•	30m/40m/Liquo	Ultra 101VA	Turbine	Yes	–
	90/300	31 – 65	5.1		•		30m/40m/Liquo	Ultra 101VA	Turbine	Yes	–
	90/320	27 – 56	13.0			•	30m/40m/Liquo	Ultra 101VA	Turbine	Yes	–
	90/350	27 – 56	13.0			•	30m/40m/Liquo	Ultra 101VA	Turbine	Yes	–
	90/370	27 – 56	13.0		•		30m/40m/Liquo	Ultra 101VA	Turbine	Yes	–
	90/400	22 – 48	11.1			•	30m/40m/Liquo	Ultra 101VA	Turbine	Yes	–
	100/270	37 – 86	20.0		•		30m/40m/Liquo	Ultra 140VA	Turbine	Yes	–
	100/300	37 – 75	17.4			•	30m/40m/Liquo	Ultra 140VA	Turbine	Yes	–
	100/350	37 – 75	17.4		•		30m/40m/Liquo	Ultra 140VA	Turbine	Yes	–
	110/220	51 – 106	24.6	•			30m/40m/Liquo	Ultra 140VA	Turbine	Yes	–
RM690GX	90/400	22 – 48	11.1			•	40m/50m/Liquo	Ultra 101VA	Turbine	Yes	Yes
	90/430	25 – 45	10.4			•	40m/50m/Liquo	Ultra 101VA	Turbine	Yes	Yes
	90/450	22 – 48	11.1		•		40m/50m/Liquo	Ultra 101VA	Turbine	Yes	Yes
	100/360	37 – 75	17.4			•	40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes
	100/400	31 – 65	15.1			•	40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes
	100/420	31 – 65	15.1		•		40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes
	110/300	30 – 95	22.1			•	40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes
	110/350	30 – 90	20.9			•	40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes
	110/370	37 – 86	20.0	•			40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes
	120/270	51 – 114	26.5		•		40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes
	125/250	67 – 130	30.2			•	40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes
RM 790GX	100/450	28 – 68	15.8		•		40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes
	100/480	31 – 65	15.1	•			40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes
	110/350	30 – 90	20.9			•	40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes
	110/400	30 – 96	22.3			•	40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes
	110/420	30 – 90	20.0		•		40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes
	110/440	37 – 75	17.4		•		40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes
	120/300	50 – 114	26.5			•	40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes
	120/320	35 – 130	30.2			•	40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes
	120/360	44 – 94	21.8		•		40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes
	125/300	59 – 114	26.5			•	40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes
	125/340	59 – 114	26.5		•		40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes

Full machine specifications and options shown on Page 7-8

RM HOSE REEL IRRIGATORS – GX SERIES – *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	
RM 890GX	100/530	28 – 56	13.3				• 40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes	
	100/600	27 – 56	13.3		•		40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes	
	110/450	37 – 70	16.2			•	40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes	
	110/500	37 – 70	16.2				• 40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes	
	110/520	37 – 75	17.4			•	40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes	
	110/550	37 – 75	17.4			•	40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes	
	110/570	37 – 75	17.4	•			40m/50m/Liquo	Ultra 140VA	Turbine	Yes	Yes	
	120/400	44 – 94	21.8	•			40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes	
	120/430	44 – 94	21.8			•	40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes	
	120/450	44 – 94	21.8				• 40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes	
	125/370	59 – 106	24.6				• 40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes	
	125/400	59 – 106	24.6			•	40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes	
	125/420	59 – 106	24.6	•			40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes	
	135/300	68 – 145	33.7			•	40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes	
	135/350	68 – 145	33.7	•			40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes	
	135/380	68 – 119	27.6			•	40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes	
	140/300	68 – 130	30.2			•	40m/50m/Liquo	Ultra 160VA	Turbine	Yes	Yes	
RM 990GX	110/580	31 – 65	15.1			•	40m/50/72m/Liquo	Ultra 140VA	Turbine	–	Yes	
	110/600	31 – 65	15.1			•	40m/50/72m/Liquo	Ultra 140VA	Turbine	–	Yes	
	110/650	31 – 65	15.1		•		40m/50/72m/Liquo	Ultra 140VA	Turbine	–	Yes	
	120/480	44 – 94	21.8			•	40m/50/72m/Liquo	Ultra 160VA	Turbine	–	Yes	
	120/530	37 – 86	20.0			•	40m/50/72m/Liquo	Ultra 160VA	Turbine	–	Yes	
	120/580	37 – 83	19.3			•	40m/50/72m/Liquo	Ultra 160VA	Turbine	–	Yes	
	120/600	37 – 83	19.3		•		40m/50/72m/Liquo	Ultra 160VA	Turbine	–	Yes	
	125/450	59 – 106	24.6			•	40m/50/72m/Liquo	Ultra 160VA	Turbine	–	Yes	
	125/500	51 – 94	21.8			•	40m/50/72m/Liquo	Ultra 160VA	Turbine	–	Yes	
	125/550	51 – 94	21.8			•	40m/50/72m/Liquo	Ultra 160VA	Turbine	–	Yes	
	135/450	68 – 130	30.2			•	40m/50/72m/Liquo	Ultra 160VA	Turbine	–	Yes	
	140/350	77 – 145	33.7			•	40m/50/72m/Liquo	Ultra 160VA	Turbine	–	Yes	
	140/400	67 – 130	30.2			•	40m/50/72m/Liquo	Ultra 160VA	Turbine	–	Yes	
RM1000GX	120/650	37 – 83	19.3			•	40m/50m/72m	Ultra 160VA	Turbine	–	Yes	
	120/680	37 – 83	19.3			•	40m/50m/72m	Ultra 160VA	Turbine	–	Yes	
	125/550	51 – 94	21.8	•			40m/50m/72m	Ultra 160VA	Turbine	–	Yes	
	125/600	43 – 86	20.0			•	40m/50m/72m	Ultra 160VA	Turbine	–	Yes	
	125/650	43 – 86	20.0			•	40m/5m0/72m	Ultra 160VA	Turbine	–	Yes	
	125/670	43 – 86	20.0			•	40m/50m/72m	Ultra 160VA	Turbine	–	Yes	
	135/530	59 – 114	26.5			•	40m/50m/72m	Ultra 160VA	Turbine	–	Yes	
MAGNUM FX 6-WHEELS	120/780	37 – 83	19.3		•		n/a	Ultra 160VA	Turbine	Triple Axle		
	125/700	40 – 94	21.8			•	n/a	Ultra 160VA	Turbine	Triple Axle		
	125/750	40 – 84	19.5		•		n/a	Ultra 160VA	Turbine	Triple Axle		
	135/630	45 – 130	30.2		•		n/a	Ultra 160VA	Turbine	Triple Axle		
XJ SERIES												
MAJOR	120/650	43 – 75	17.4			•		n/a	Ultra 160VA	Turbine	–	Yes
	120/680	29 – 96	22.3				•	n/a	Ultra 160VA	Turbine	–	Yes
	125/550	44 – 130	30.2			•		n/a	Ultra 160VA	Turbine	–	Yes
	125/600	45 – 120	27.9			•		n/a	Ultra 160VA	Turbine	–	Yes
	125/650	44 – 115	26.7				•	n/a	Ultra 160VA	Turbine	–	Yes
	125/670	44 – 115	26.7			•		n/a	Ultra 160VA	Turbine	–	Yes
	135/530	44 – 160	37.2			•		n/a	Ultra 160VA	Turbine	–	Yes
	140/450	52 – 175	40.7	•				n/a	Ultra 160VA	Turbine	–	Yes
	140/500	52 – 185	43.0				•	n/a	Ultra 160VA	Turbine	–	Yes
	150/460	77 – 161	37.4			•		n/a	Ultra 160VA	Turbine	–	Yes
MAGNUM	120/780	37 – 83	19.3		•			n/a	Ultra 160VA	Turbine	–	Yes
	125/700	40 – 94	21.8			•		n/a	Ultra 160VA	Turbine	–	Yes
	125/750	40 – 84	19.5		•			n/a	Ultra 160VA	Turbine	–	Yes
	135/630	59 – 106	24.6		•			n/a	Ultra 160VA	Turbine	–	Yes
	140/550	68 – 130	30.2			•		n/a	Ultra 160VA	Turbine	–	Yes
	140/600	59 – 114	26.5	•				n/a	Ultra 160VA	Turbine	–	Yes
	150/500	77 – 161	37.4			•		n/a	Ultra 160VA	Turbine	–	Yes
	150/540	77 – 161	37.4	•				n/a	Ultra 160VA	Turbine	–	Yes

RM HOSE REEL SPECIFICATIONS & OPTIONS

MACHINE CODING

- GX Series** Turntable Reel with Single Axle (Double Axle 990 & 1000GX)
Magnum FX No Turntable, Fixed Axle with 6 wheels
XJ Series 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.

K163 10, 12, 14, 16mm

Twin 101/Plus 14, 16, 18, 20, 22mm

Twin 140/Plus 20, 22, 24, 26, 28, 30mm

Twin 160/Pro 22, 24, 26, 28, 30mm

DESCRIPTION	540 GX	560 GX	570 GX	581 GX EVO	690 GX	790 GX	890 GX	990 GX
Gearbox	3 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
Drive Mechanism on to Hose Drum	Pinion	Pinion	Pinion	Pinion	Chain	Chain	Chain	Chain
Dual Chain Drive on to Hose Drum	-	-	-	-	-	-	-	-
Turntable Standard Specification	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Hyd
Option - Mechanical	-	-	•	•	•	•	-	-
Option - Hydraulic	-	-	-	•	•	•	•	-
Stabiliser Legs	Mech	Mech	Mech	Hyd	Hyd	Hyd	Hyd	Hyd
Front Jack on Drawbar	Mech	Mech	Mech	Mech	Mech	Mech	-	-
Hydraulic Jack on Drawbar	-	-	-	•	•	•	Std	Std
Hydraulic Lifting Wheels	-	-	-	-	-	-	-	-
Raingun Trolley Lifting	Mech	Mech	Hyd	Auto	Auto	Auto	Auto	Hyd
Raingun Trolley with 3-Wheels & Fully Galvanised	Std	Std	Std	Std	Std	Std	Std	Std
Raingun Trolley suitable for connection of 40m boom	-	-	-	-	-	-	Std	Std
Raingun Trolley Front Wheel	Fixed	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating
Raingun Trolley - Wheel Weights	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
Galvanised Chassis & Drum	-	Std	Std	•	•	•	•	•
Painted Chassis & Drum	-	-	-	-	-	-	-	-
Hydraulic Boom Lifting Kit	-	•	•	•	•	•	•	Std
Water Inlet Both Sides	-	-	-	Std	Std	Std	Std	Std
Unwinding Brake (for PET hose rewind)	Manual	Auto	Auto	Auto	Auto	Auto	Auto	Auto
PTO Rewind Std	Std	Std	Std	Std	Std	Std	Std	-
Automatic Shut-Down Valve	Std	Std	Std	Std	Std	Std	Std	Std
Connection Hose	8m	8m	8m	8m	8m	8m	8m	8m
Pressure Gauge	Std	Std	Std	Std	Std	Std	Std	Std
Tachometer Std	Std	Std	Std	Std	Std	Std	Std	-
Axle Single (2 wheels)	Std	Std	Std	Std	Std	Std	Std	-
Double (4 wheels) Pivoting	-	-	-	-	•	•	•	Std
Triple (6 wheels)	-	-	-	-	-	-	-	-
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

RM HOSE REEL SPECIFICATIONS & OPTIONS

DESCRIPTION	1000 GX	MAGNUM FX	600 XJ	700 XJ	800 XJ	900 XJ EVO	MAJOR XJ	MAGNUM XJ
Gearbox 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	-	-	-	-	-	-	-	-
Turbine mounted on gearbox with built-in by-pass	Std	Std	Std	Std	Std	Std	Std	Std
Drive Mechanism on to Hose Drum	Chain	-	Pinion	Chain	Chain	Chain	Chain	-
Dual Chain Drive on to Hose Drum	-	Std	-	-	-	-	Std	Std
Turntable Standard Specification	Hyd	Fixed	Manual	Manual	Hyd	Hyd	Hyd	Fixed
Option - Mechanical	-	-	-	-	-	-	-	-
Option - Hydraulic	-	-	•	•	-	-	-	-
Stabiliser Legs	Hyd	Hyd	Hyd	Hyd	Hyd	Hyd	Hyd	Hyd
Front Jack on Drawbar	-	-	-	-	-	-	-	-
Hydraulic Jack on Drawbar	Std	Std	Std	Std	Std	Std	Std	Std
Hydraulic Lifting Wheels	-	-	Std	Std	Std	Std	Std	Std
Raingun Trolley Lifting	Hyd	Hyd	Auto	Auto	Auto	Auto	Auto	Auto
Raingun Trolley with 3-Wheels & Fully Galvanised	Std	Std	Std	Std	Std	Std	Std	Std
Raingun Trolley suitable for connection of 40m boom	Std	Std	-	-	-	-	-	-
Raingun Trolley Front Wheel	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating	Rotating
Raingun Trolley - Wheel Weights	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 Drawba	•	•	•	•	•	•	•	•
Galvanised Chassis & Painted Drum	•	•	Std	Std	Std	Std	•	•
Galvanised Chassis & Drum	•	•	•	•	•	•	•	•
Painted Chassis & Drum	Std	Std	-	-	-	-	Std	Std
Hydraulic Boom Lifting Kit	Std	Std	-	-	-	-	-	-
Water Inlet Both Sides	Std	Std	Std	Std	Std	Std	Std	Std
Unwinding Brake (for PET hose rewind)	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
PTO Rewind	Std	Std	Std	Std	Std	Std	Std	Std
Automatic Shut-Down Valve	Std	Std	Std	Std	Std	Std	Std	Std
Connection Hose	8m	8m	8m	8m	8m	8m	8m	8m
Pressure Gauge	Std	Std	Std	Std	Std	Std	Std	Std
Tachometer	Std	Std	Std	Std	Std	Std	Std	Std
Axle Single (2 wheels)	-	-	Std	Std	Std	Std	-	-
Double (4 wheels) Pivoting	Std	-	-	-	•	•	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

- Not Applicable

Std = Standard

Manual = Manual

Mech = Mechanical

Hyd = Hydraulic

Auto = Automatic

• = Optional Extra



IRRIFRANCE HOSE REEL IRRIGATORS

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
1005	75/300	5.5	2.0	12 - 34	6 - 9	70%	Ultra 101VA	Yes	-	Yes	Yes
	82/260	6	1.9	17 - 45	5.2 - 9	50%	Ultra 101VA	Yes	-	Yes	Yes
1010	75/380	5.5	2.5	12 - 30	6 - 10	40%	Ultra 101VA	Yes	-	Yes	Yes
	82/300	6	2.2	17 - 45	5.5 - 9.5	70%	Ultra 101VA	Yes	-	Yes	Yes
	90/270	6.7	2.3	18 - 60	5.5 - 10	60%	Ultra 101VA	Yes	-	Yes	Yes
1015	75/400	6.8	2.6	18 - 30	5.5 - 10	70%	Ultra 101VA	Yes	-	Yes	Yes
	82/350	6	2.5	18 - 40	5.5 - 10	50%	Ultra 101VA	Yes	-	Yes	Yes
	82/370	6	2.5	18 - 40	5.5 - 10	70%	Ultra 101VA	Yes	-	Yes	Yes
	90/340	6.7	2.6	18 - 58	5.5 - 10	60%	Ultra 101VA	Yes	-	Yes	Yes
	100/260	7.4	2.6	18 - 70	5.5 - 10	80%	Ultra 140VA	Yes	-	Yes	Yes
1020	82/420	7.5	2.7	23 - 37	5.5 - 10	70%	Ultra 101VA	Yes	-	Yes	Yes
	90/400	6.7	2.9	23 - 50	5.5 - 11	80%	Ultra 101VA	Yes	-	Yes	Yes
	90/450	8.2	3.3	25 - 45	5.5 - 11	35%	Ultra 101VA	Yes	-	Yes	Yes
	100/330	7.4	3.1	23 - 67	5.5 - 10	40%	Ultra 140VA	Yes	-	Yes	Yes
	100/370	7.4	3.5	23 - 60	5.5 - 10	80%	Ultra 140VA	Yes	-	Yes	Yes
	110/340	8.2	3.6	23 - 75	5.5 - 10	80%	Ultra 140VA	Yes	-	Yes	Yes
1027	90/500	8.2	3.6	25 - 40	6 - 10	50%	Ultra 101VA	Yes	Yes	Yes	Yes
	100/400	7.4	3.4	30 - 60	6 - 10	90%	Ultra 140VA	Yes	Yes	Yes	Yes
	100/450	9.1	3.5	30 - 55	6 - 10	40%	Ultra 140VA	Yes	Yes	Yes	Yes
	100/470	9.1	3.6	30 - 55	6 - 10	100%	Ultra 140VA	Yes	Yes	Yes	Yes
	110/370	8.2	3.3	30 - 75	6 - 10	40%	Ultra 140VA	Yes	Yes	Yes	Yes
	110/400	8.2	3.6	30 - 80	6 - 10	70%	Ultra 140VA	Yes	Yes	Yes	Yes
	110/420	10	3.9	30 - 65	6 - 10	90%	Ultra 140VA	Yes	Yes	Yes	Yes
1032	100/500	9.1	3.9	30 - 50	6 - 10	50%	Ultra 140VA	Yes	Yes	Yes	Yes
	100/540	11	4.3	35 - 48	7 - 10	85%	Ultra 140VA	Yes	Yes	Yes	Yes
	110/450	10	3.8	40 - 65	6.2 - 10	40%	Ultra 140VA	Yes	Yes	Yes	Yes
	110/470	10	3.9	40 - 65	6.2 - 10	55%	Ultra 140VA	Yes	Yes	Yes	Yes
	110/500	10	4.2	40 - 65	6.2 - 10	80%	Ultra 140VA	Yes	Yes	Yes	Yes
	120/370	8.9	3.4	30 - 90	6 - 10	80%	Ultra 160VA	Yes	Yes	Yes	Yes
	120/380	8.9	3.4	30 - 90	6 - 10	90%	Ultra 160VA	Yes	Yes	Yes	Yes
	125/350	11.4	3.1	30 - 92	6 - 10	70%	Ultra 160VA	Yes	Yes	Yes	Yes
	125/360	11.4	3.2	30 - 92	6 - 10	85%	Ultra 160VA	Yes	Yes	Yes	Yes
1037	100/550	11	4.4	35 - 48	7 - 10	40%	Ultra 140VA	Yes	Yes	Yes	Yes
	100/600	11	4.7	35 - 48	7.5 - 10.5	80%	Ultra 140VA	Yes	Yes	Yes	Yes
	110/450	12.3	3.8	40 - 65	6.7 - 10	80%	Ultra 140VA	Yes	Yes	Yes	Yes
	110/500	10	4.2	40 - 65	6.2 - 10	30%	Ultra 140VA	Yes	Yes	Yes	Yes
	110/530	11.4	4.5	40 - 61	6.8 - 10.4	60%	Ultra 140VA	Yes	Yes	Yes	Yes
	110/550	12.3	4.6	40 - 61	6.9 - 10.6	75%	Ultra 140VA	Yes	Yes	Yes	Yes
	110/570	12.3	4.8	40 - 61	7 - 10.7	90%	Ultra 140VA	Yes	Yes	Yes	Yes
	120/400	11.4	3.7	40 - 90	5.4 - 10.3	70%	Ultra 160VA	Yes	Yes	Yes	Yes
	120/420	11.5	3.8	40 - 90	5.4 - 10.5	90%	Ultra 160VA	Yes	Yes	Yes	Yes
	125/385	11.4	3.5	40 - 92	5.2 - 9.7	75%	Ultra 160VA	Yes	Yes	Yes	Yes
	125/400	11.4	3.7	40 - 92	5.2 - 9.8	80%	Ultra 160VA	Yes	Yes	Yes	Yes
	125/410	11.4	3.8	40 - 92	5.3 - 9.9	95%	Ultra 160VA	Yes	Yes	Yes	Yes
	135/370	10	3.5	40 - 100	5 - 9	75%	Ultra 160VA	Yes	Yes	Yes	Yes
	135/390	10	3.6	40 - 100	5.1 - 9.1	95%	Ultra 160VA	Yes	Yes	Yes	Yes
1045	110/560	12.3	4.6	40 - 58	7 - 10	100%	Ultra 140VA	Yes	Yes	Yes	Yes
	120/460	11.5	4.1	40 - 80	7 - 10	30%	Ultra 160VA	Yes	Yes	Yes	Yes
	120/520	11.5	4.4	40 - 80	7 - 10	90%	Ultra 160VA	Yes	Yes	Yes	Yes
	125/440	11.4	4.4	40 - 90	7 - 10	30%	Ultra 160VA	Yes	Yes	Yes	Yes
	125/500	11.5	4.0	40 - 90	7 - 10	90%	Ultra 160VA	Yes	Yes	Yes	Yes
1055	110/650	12.3	5.0	40 - 75	8 - 11	70%	Ultra 140VA	Yes	Yes	Yes	Yes
	120/620	13.2	5.3	40 - 70	7 - 11	80%	Ultra 160VA	Yes	Yes	Yes	Yes
	125/600	14.0	5.3	40 - 80	6.5 - 11	80%	Ultra 160VA	Yes	Yes	Yes	Yes

BOOM IRRIGATION

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
RM8	8 metre	Up to 12 metres	Fixed	8 No.	-	RG4	4 - 7
RM14	14 metre	Up to 20 metres	Fixed	14 No.	-	RG4 or Brass	12 - 21
RM20	20 metre	Up to 30 metres	360	17 No.	2-3mm	Brass 1	9 - 43
RM30	30 metre	Up to 40 metres	360	27 No.	2-3mm	Brass	29 - 65
RM40	40 metre	Up to 50 metres	360	35 No.	2-4mm	Brass	37 - 116
RM50	50 metre	Up to 60 metres	360	45 No.	2-4mm	Brass	46 - 132

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

BRASS NOZZLE



DESCRIPTION	THREAD SIZE	PART NO.
Nozzle - Brass Double-Slit 2mm	½" M BSP	BRP002
Nozzle - Brass Double-Slit 3mm	½" M BSP	BRP003

RG4 NOZZLE



DESCRIPTION	THREAD SIZE	PART NO.
RG4 Green	½" M BSP	TBP9562540G
RG4 Red	½" M BSP	TBP9562540R
RG4 Yellow	½" M BSP	TBP9562540Y
RG4 Black	½" M BSP	TBP9562540B

FLOW CONTROL VALVE



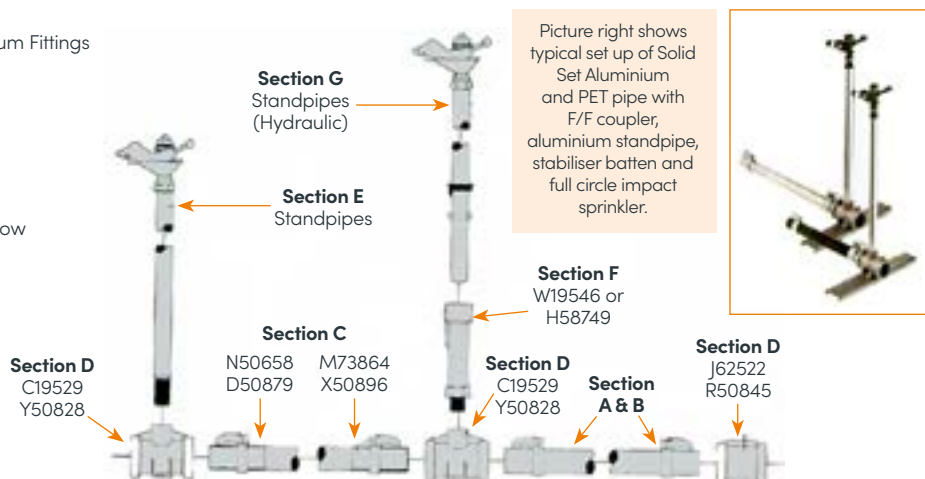
DESCRIPTION	THREAD SIZE	PART NO.
Mini Lever Ball Valve	½" M/F BSP	BVM015

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 m ³ /hr



SECTIONS A & B

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

DESCRIPTION	PACK	TRUCK/PACKS	PART NO.
ALU 2" x 6m	100	24	ASS-B52303
ALU 2" x 9m	100	12	ASS-H52286
ALU 2" x 10.5m	100	12	ASS-X68997

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

DESCRIPTION	PACK	TRUCK/PACKS	PART NO.
PET 50mm x 6m	200	12	ASS-G53343
PET 50mm x 7.5m	100	6	ASS-A53360
PET 50mm x 9m	100	6	ASS-T53377
PET 50mm x 10.5m	100	6	ASS-M53394
PET 63mm x 6m	100	16	ASS-T51100
PET 63mm x 7.5m	100	8	ASS-C76753
PET 63mm x 9m	100	8	ASS-G51066
PET 63mm x 10.5m	100	8	ASS-A51083

SECTION C

DESCRIPTION	PART NO.
PVC Insert, 50mm PET pipe (2 required)	ASS-M73864
PVC Insert, 63mm PET pipe (2 required)	ASS-X50896
Band & Hook 50mm, ALU/PET (2 required)	ASS-N50658
Band & Hook 63mm, PET (2 required)	ASS-D50879

SECTION D

DESCRIPTION	PART NO.
50mm Coupling (F/F) with 1" outlet	ASS-C19529
50mm Coupling (F/F) without outlet	ASS-J62522
50mm End of Line Pipe (less Band/Hook)	ASS-B58766
50mm Fem Coupling x 1 ½" M BSP	ASS-Y93769
63mm Coupling (F/F) with 1" outlet	ASS-Y50828
63mm Coupling (F/F) without outlet	ASS-R50845
63mm End of Line Pipe (less Band/Hook)	ASS-J50930
63mm Fem Coupling x 1 ½" M BSP	ASS-K50862

SECTIONS E

DESCRIPTION	PART NO.
Standpipe 0.50m, 1" M x ¾" F BSP	ASS-CH316800
Standpipe 0.75m, 1" M x ¾" F BSP	ASS-CH316810
Standpipe 1.0m, 1" M x ¾" F BSP	ASS-CH316820
Standpipe 2.20m, 1" M x ¾" F BSP	ASS-CH316860

SECTIONS F

Standpipes - Hydraulic & Mechanical (1" Male BSP)

DESCRIPTION	PART NO.
50mm Standpipe Cplr 1" M BSP (Hyd)	ASS-W19546
50mm Standpipe Cplr 1" M BSP (Mech)	ASS-H58749

SECTION G

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

DESCRIPTION	PART NO.
Standpipe 0.50m	ASS-M96910
Standpipe 2.20m	ASS-S15380
Locking Ring (1 No. Per Standpipe)	ASS-S18830

STABILISING BATTENS & EQUIPMENT

DESCRIPTION	PART NO.
Alu Stabiliser Batten 400 x 60mm	ASS-X93837
Alu Stabiliser Batten 800 x 60mm	ASS-D93820
Galv Stabiliser Batten 400 x 60mm	ASS-K55991
Galv Stabiliser Batten 800 x 60mm	ASS-X56025
Batten Bolts (2 per stabiliser)	ASS-R41944

SOLID SET FITTINGS

DESCRIPTION	PART NO.
50mm Fem Cplr x 1 ½" M BSP	ASS-Y93769
63mm Fem Cplr x 1 ½" M BSP	ASS-K50862
50mm Inline Tee (M/F/F)	ASS-G55804
50mm Inline Tee (F/F/F)	ASS-M62709
50mm x 90° Bend (M/F)	ASS-N55787
50mm x 90° Bend (F/F)	ASS-T62692
FMLD 3" Cross x 1 ½" M/M BSP	ASS-Y50828
FMLD 4" Cross x 1 ½" M/MBSP	ASS-R50845
FMLD 5" Cross x 1 ½" M/MBSP	ASS-J50930
FMLD 4" Cross x 3" M/MBSP	ASS-FAB4334
FMLD 5" Cross x 2" M/MBSP	ASS-FAB5225
FMLD 5" Cross x 3" M/MBSP	ASS-FAB5335
FMLD 5" Tee Male x 3" M BSP	ASS-FAB5305

SECTION C

DESCRIPTION	PART NO.
2" Press-In Female Coupler (less Seal)	ASS-B55753
2" Press-In Male Coupler	ASS-N67655
Latch Spring - Steel	ASS-V64970
Coupling Hook 50mm	ASS-C96740

SOLID SET SPRINKLER SYSTEMS & EQUIPMENT

FULL CIRCLE IMPACT SPRINKLER



- Unirain F46 sprinkler c/w 2 nozzles
- 3/4" 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.
F46 Full Circle Sprinkler	ASS-Z52646
Nozzle 5/32" - Brass Long Radius	ASS-Z58994
Nozzle 11/64"	ASS-B10765
Nozzle 3/16"	ASS-Z48115
Nozzle 13/64"	ASS-Q63126
Nozzle 7/32"	ASS-P39734
Nozzle 5/32" - Plastic Long Radius	ASS-N65056
Nozzle 11/64"	ASS-G65073
Nozzle 3/16"	ASS-A65090
Nozzle 13/64"	ASS-T65107
Nozzle 7/32"	ASS-M65124
Nozzle 3/32" - Plastic Spreader	ASS-F65141
Nozzle 1/8"	ASS-Z65158
Plastic Plug	ASS-G51388

F46 SPRINKLER PERFORMANCES C/W 5/32" & 3/32" NOZZLES

PSI	PRESSURE BAR	FLOW M ³ /HR	RADIUS (M)	FLOW US GPM	RADIUS (FT)
20	1.36	0.98	12.4	4.31	40.7
25	1.70	1.10	13.0	4.83	42.7
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
70	4.76	1.84	15.2	8.08	49.9
75	5.10	1.90	15.4	8.37	50.5
80	5.44	1.96	15.5	8.65	50.9

*Performances in orange 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: 1/4" x 1" F/F BSP (Hi-Flow) 3/4" F/F BSP (Lo-Flow)

TYPE	FLOW RATE L/Hr	PRESET OPERATING PSI	PRESET OPERATING BAR	MAX INLET PRESSURE PSI	MAX INLET PRESSURE BAR	PART NO.
Hi-Flo	2271 - 7268	30	2	100	6.9	N18250
Lo-Flo	454 - 4542	50	3.45	150	10.34	N18251

*Other pressure rated regulators are available, information on request.

FULL ACOUSTIC CANOPY AND SKID DIESEL UNITS ALSO AVAILABLE



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

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 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.

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
MOP 207	JCB444 Dieselmax	4-Cylinder 63 kW (84 Hp)	42(56) / 1450 48(64) / 1750 52(70) / 2000	212 223 225	4.4 4.4 4.4

ROVATTI PUMP	ENGINE RPM	FLOW (L/MIN)	FLOW (M ³ /HR)	PRESSURE (M/HD)	ABSORBED POWER (kW)	PUMP EFFICIENCY	APPROX FUEL USED (L/HR)	SUCTION & DELIVERY	EQUIPMENT PRICE
F33K	1750	1600	96	108	34.9	81%	9.3		
100	1750	2000	120	96.8	39.2	81%	10.4	100mm	Nett Prices on Request
2000	1600	1600	96	146	49.6	77%	13.3	& 80mm	
-160/4E	2000	2000	120	137	54.6	82%	14.6		

SPECIFICATIONS WITH IVECO ENGINE



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

- **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 CONSUMPTION G/KWH
MOP 110	Iveco N45-MSSD-00	4-Cylinder 100 Hp (74 kW)	218 220 225

ROVATTI PUMP	ENGINE RPM	FLOW (L/MIN)	FLOW (M ³ /HR)	PRESSURE (METRES)	ABSORBED POWER (kW)	PUMP EFFICIENCY	APPROX FUEL USED (L/HR)	SUCTION & DELIVERY	EQUIPMENT PRICE
F33K	1600	1000	60	107.2	25.9	67%	6.7		
100-160/4E	1600	2000	120	85.9	38.1	73%	9.9	100mm	Nett Prices on Request
	1800	1000	60	136.1	34.5	64%	9.0	& 80mm	
	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

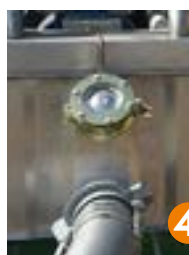
- Manual/Automatic/Program operation
- Set 99 individual programs
- Hours run/duration function
- Set pressure function
- Time filling pipes function
- Minimum system pressure function
- Adjustable positive tolerance function

- 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 UNITS

ALL STOCK PUMP UNITS STANDARD WITH AUTOMATIC PRIMING AND GSM

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 Automatic priming equipment

- JCB444TA1 Dieselmix 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 160m³/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**



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 Dieselmix 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 ³ /HR)	PRESSURE (M/HD)	ABSORBED POWER (KW)	PUMP EFFICIENCY	APPROX FUEL USED (L/HR)	SUCTION & DELIVERY	EQUIPMENT PRICE
MOP 216	JCB444 Dieselmix	93 kW (125 Hp)	1400 1600	205 208	4.4 4.4	F3AP 125-175 -A3	1520 1520	2166 2666	130 160	129 117.9	58.2 64.5	78% 80%	14.4 16	DN175 (PN16) DN125 (PN25)	Price on request

TURF IRRIGATION EQUIPMENT

PAGE 16-21

- SPEEDY RAIN MINI HOSE
REEL IRRIGATORS
- MINI IRRIGATION BOOMS
- RAIN-MOBILE SELF-TRAVELLING
IRRIGATOR
- SLOW RETURN RAINGUNS
- SPRINKLERS

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

**COST
EFFECTIVE
IRRIGATION**

PISTON DRIVE MODELS



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

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 3.5 bar
- Hose sizes available: 32mm x 90
- Supplied with 2-wheel adjustable width trolley (32/90 model), flexible connection hose with 'geka' coupler and automatic shut-down valve

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.

TURBINE DRIVE MODELS



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

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	300P	405	505
Hose Diameter mm	32	40	50
Hose Length mtr	90	130	160
Drive Mechanism	Piston	Turbine	Turbine
Discharge m ³ /hr	1 - 6	4 - 11	5 - 17
Pressure bars	3.5 - 5	4.5 - 8	4.5 - 8
Rewind Speed mtr/hr	10 - 40	10 - 50	5 - 50
Wetted Diameter mtr	24 - 30	28 - 36	32 - 54

DESCRIPTION	PART NO.
8 METRE BOOM	BHL008

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.



Turbine drive 50/160

 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 m³/hr (50 - 68 litres/min)
- Box dimensions: a x 46cm x 38cm
- Packed weight: 22 Kg



NOTES

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

Description	Part No.
Rain-Mobile Self-Traveller	TCRM100

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	OUTPUT M3/HR	WIDTH METRES	OUTPUT M3/HR	WIDTH METRES	OUTPUT M3/HR	WIDTH METRES	OUTPUT M3/HR	WIDTH METRES	OUTPUT M3/HR	WIDTH METRES	OUTPUT M3/HR	WIDTH METRES	OUTPUT 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"

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.
1/2"	9 bar	25-50-100	Yellow	16 - 25mm	BFT012
3/4"	9 bar	25-50-100	Yellow	16 - 25mm	BFT019
1"	8 bar	25-50-100	Yellow	25 - 35mm	BFT025
1 1/4"	8 bar	25-50-100	Yellow	30 - 40mm	BFT030
1 1/2"	8 bar	25-50-100	Yellow	48 - 51mm	BFT040
2"	8 bar	25-50-100	Yellow	60 - 63mm	BFT050

HOSE CLIPS



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

SIZE (MM)	PART NO.	SIZE (MM)	PART NO.
16 - 25	TNC016025	80 - 85	MIK 080085
25 - 35	TNC025035	86 - 91	MIK 086091
30 - 40	TNC030040	92 - 97	MIK 092097
40 - 43	MIK 040043	97 - 104	MIK 097104
43 - 47	MIK 043047	104 - 112	MIK 104112
48 - 51	MIK 048051	113 - 121	MIK 113121
52 - 55	MIK 052055	122 - 130	MIK 122130
56 - 59	MIK 056059	131 - 139	MIK 131139
60 - 63	MIK 060063	140 - 148	MIK 140148
64 - 68	MIK 064068	149 - 161	MIK 149161
69 - 73	MIK 069073	162 - 174	MIK 162174
74 - 79	MIK 074079	213 - 226	MIK 213226

GEKA 'SWIFT' COUPLERS - Suitable for use with Tricoflex type hoses

	GEKA HOSETAIL	GEKA X M BSP	GEKA X F BSP
SIZE	PART NO.	PART NO.	PART NO.
1/2"	TRH330213	TRM331013	TRF330013
3/4"	TRH330219	TRM331019	TRF330019
1"	TRH330225	TRM331025	TRF330025
1 1/4"	TRH330232	-	-

	GEKA 3-WAY	GEKA CAP	GEKA SEAL
SIZE	PART NO.	PART NO.	PART NO.
3/4"	TRW332019	TRM331019	TRF330019
All Sizes	-	TRB330300	TRS330400

SLOW RETURN RAINGUNS

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 (15-45) models available.



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**

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.

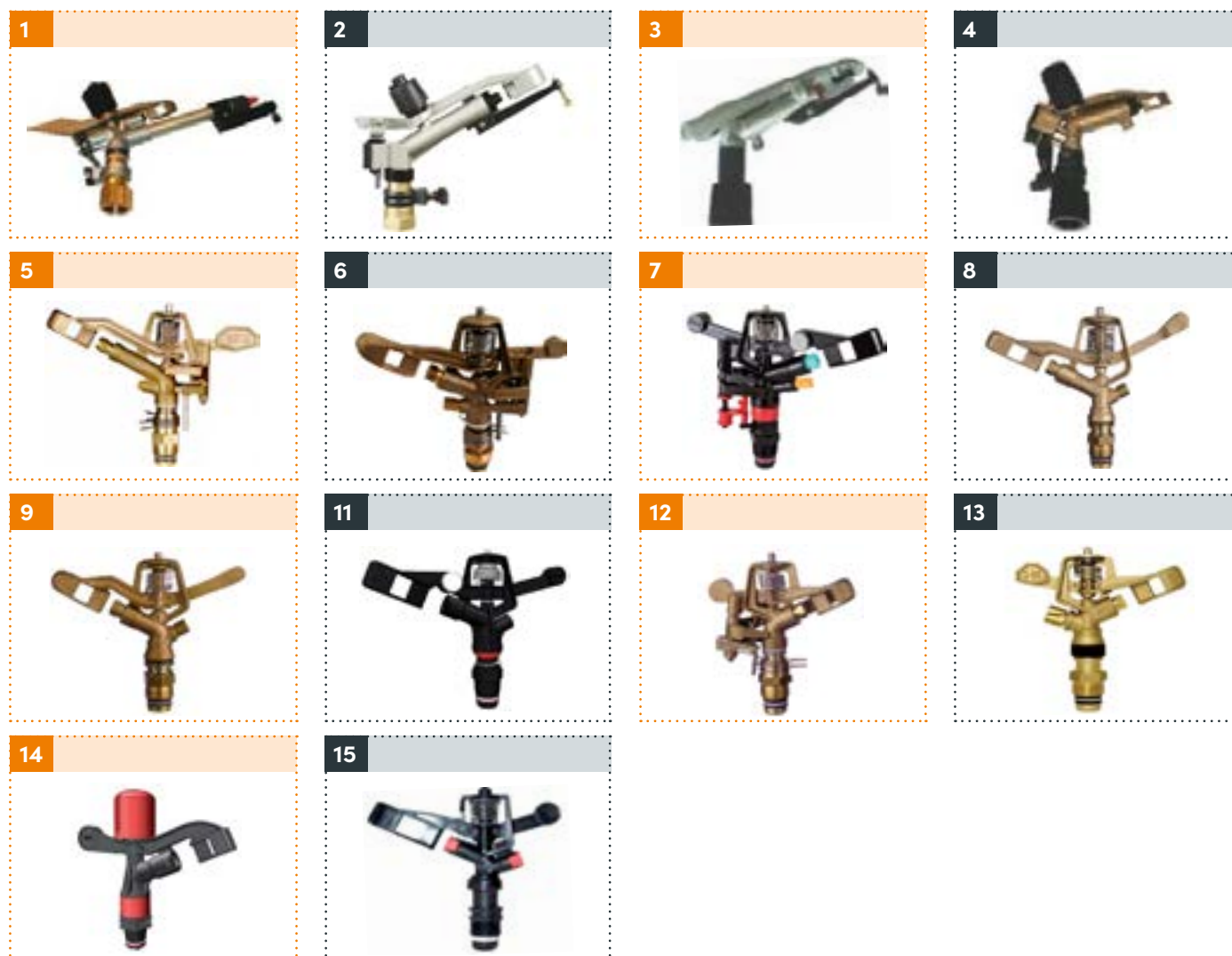
RAINGUN MODEL	SUITABLE APPLICATION	OUTPUT (m³/hr)	RADIUS (METRES)	PRESSURE (BARS)	NOZZLE SIZES (mm)	BASE CONNECTION	VARI-ANGLE TRAJECTORY	FIXED ANGLE TRAJECTORY
Twin Ultra101	Irrigation	8 - 55	26 - 54	2 - 6.5	12 - 24	Flange	15 - 45	24
Twin Ultra 140	Irrigation	14 - 90	28 - 63	2 - 7	16 - 30	Flange	15 - 45	24
Twin Ultra 160	Irrigation	26 - 120	40 - 69	3 - 7	20 - 35	Flange	15 - 45	24
Twin Ultra 202	Irrigation	26 - 159	40 - 71	3 - 7	20 - 40	Flange	15 - 45	-
Hydrojet AP101	Dust	13 - 73	30 - 54	3 - 7	14 - 26	2" BSP	F 15 - 45	44
Hydrojet AP140	Dust	22 - 111	35 - 63	3 - 7	18 - 32	Flange	15 - 45	44
Trigon 105	Slurry	8 - 54	22 - 52	2 - 6	12 - 24	2" BSP	F 10 - 26	-
Trigon 112	Mining	8 - 54	22 - 52	2 - 6	12 - 24	2" BSP	F 10 - 26	-

DESCRIPTION	RAINGUN TYPE	NOZZLE SIZES (mm)	PART NO.
Nozzles - Taper Bore	Twin 101/140, AP101/140, Trigon 105	12-14-16-18-20-22-24-26-28-30	KG68024...
Nozzles - Taper Bore	Twin 160/202,	17.5-20-22.5-25-27.5-30-32.5-35	KG6202ZN...
Nozzles - Taper Bore	Trigon 112	12-14-16-18-20-22-24	KG68027
Jet-Breaker	Twin 101/140		

FULL DETAILS AND NOZZLE DATA FOR EACH RAINGUN IS SHOWN ON OUR WEBSITE WWW.JAVELINIRRIGATION.CO.UK AS A HARD COPY BROCHURE OR PDF FILE

SPRINKLERS & ACCESSORIES

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 ³ /hr)	PRESSURE (Bars)	PART NO.
1	Komet 163	PC/FC	1 1/2" F	1	8 - 16mm	Jet-Breaker	19.5 - 34.5	5 - 25	2 - 6	KG850163
2	Sime K1	PC/FC	1 1/4" F	1	6 - 14mm	Jet-Breaker	15.5 - 23.5	2.9 - 10.7	1.5 - 4.5	4-MPGETKI
3	Komet R8	FC	1 1/4" F	1	6 - 12mm	Jet-Breaker	14 - 26	1.5 - 11	1.5 - 4.5	KG750800
4	Komet F43	PC/FC	1" F	1	4.5 - 7mm	Jet-Breaker	13.8 - 21.2	1.05 - 5	2 - 4.5	KG750430
5	Iberia 38S	PC/FC	1" M	2	6.4 x 3.2mm	-	20.4 - 23	2.9 - 9	3.6 - 5.8	TCH10038S
6	Iberia 26S	PC/FC	3/4" M	2	4.4 x 2.4mm	-	12.5 - 16	1.1 - 3.2	7 1.7 - 4.1	TCH10026S
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
8	Iberia 40C	FC	3/4" M	2	4 x 2.4mm	-	14.9 - 21	1.32 - 4.65	2.5 - 5.4	TCH10040C
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
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
12	Iberia 21S	PC/FC	1/2" M	1	4mm	Diffuser Pin	11 - 13	0.57 - 1.59	1.4 - 3.4	TCH10021S
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
14	Unirain F26	FC	1/2" M	1	7/64"	Vane *	10.5 - 11.7	0.39 - 0.59	1.7 - 3.75	UR03901
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

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

ACCESSORIES	SPRINKLER	SIZE	PART NO.
Nozzles	Komet 163	8-10-12-14-16mm	Various
Jet-Breaker	Komet 163		KM23471
Nozzles	Komet R8	6-7-8-10-12mm	Various
Jet-Breaker	Komet R8		KG750820
Nozzles	Komet F43	4.5-5-5.5-6-7mm	Various
Jet-Breaker	Komet F43		KG75050
Nozzles	Unirain P45L	1/8"-9/64"-3/16"	Various

TRIPODS, SLEDs & TROLLEYS

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



TRIPOD TYPE	CONNECTION BSP	REINFORCING ARMS	WEIGHT KG	PART NO.
Adjustable	1" Male	n/a	1.8	TVTRIP25A

ADJUSTABLE TRIPOD



- Heavy duty, galvanised steel construction
- Height Adjustable Legs
- With reinforcing arms for extra stability
- 1½", 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 AP140-44° raingun (not supplied)

TRIPOD TYPE	CONNECTION MALE BSP	REINFORCING ARMS	WEIGHT KG	PART NO.
Adjustable	1½"	Yes	7.5	TVTRIP38R
Adjustable	2"	Yes	9.8	TVTRIP50R
Adjustable	3"	Yes	14	TVTRIP75R

RAINGUN & SPRINKLER DETAILS ARE ON PAGES 16-17

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 1½" sled with integral riser and Komet 163 sprinkler (not supplied)

CONNECTION MALE BSP	RISE HEIGHT	WEIGHT KG	PART NO.
3/4"	n/a	2	TVSLED19
1"	30cm	3	TVSLED25
1¼"	50cm	8.5	TVSLED32
1½"	50cm	8.5	TVSLED38

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 AP101 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

ACCESSORIES FOR CONNECTION TO TRIPODS AND TROLLEYS

DESCRIPTION	PART NO.
Flange Adapter (6 Hole) x 2" M BSP thread	MPK14223
Rubber Gasket (for above flange)	MPY9340
2" Fem/Fem Socket Galv	-
3" x 2" Fem/Fem Socket Galv	-

Accessories can be supplied as required for your specific application.

ROVATTI MEKV50C SERIES



Vertical multistage electric pumps in “compact” version with overlapping threaded ports and IEC motor support.

Close coupled vertical monobloc multistage electric pumps widely useful in water supply and boosting technological plants for irrigation, residential and industrial applications.

Efficient, having low noise and reduced overall dimensions and engineered with advanced technical solutions for efficient and reliable pumping of a large variety of liquid. Characterized by wide performances range and easy maintenance.

MODEL	KW	I/min	0	30	50	70	90	100	110	120	150	200	300
		m ³ /hr	0	1.8	3	4.2	5.4	6	6.6	7.2	9	12	18
ME2KV50C-8/5	1.5	PRESSURE (METRES HEAD)	63	61	58	55	49	46	43	39	30		
ME3KV50C-8/7	2.2		100	98	95	91	84	78	74	67	51		
ME4KV50C-8/11	3		127	125	123	117	106	100	94	85	64		
ME5KV50C-8/19	4		177	174	170	163	150	143	132	122	93		
ME3KV50C-10/6	2.2		56		56	54	52	51	50	49	43	34	
ME3KV50C-10/8	2.2		75		74	72	70	69	67	66	60	45	
ME4KV50C-10/10	3		96		94	92	89	88	87	85	77	58	
ME5KV50C-10/13	4		125		122	119	116	114	112	110	98	77	
ME7KV50C-10/16	5.5		154		150	147	143	141	138	135	125	96	
ME7KV50C-10/18	5.5		172		196	165	162	159	156	152	136	107	
ME3KV50C-12/6	2.2		59				58	58	58	57	70	50	26
ME5KV50C-12/10	4		99				98	97	96	97	92	85	45



**GREAT SERVICE YESTERDAY,
TOOK RAIN GUN TO BITS FOR
ME IN WORKSHOP, HUNTED
FOR SOME OLD PARTS TO
HELP WITH REPAIR AND ALL
I BOUGHT WAS A NEW NOZZLE**

David Scarborough

PIPES, FITTINGS & ACCESSORIES

PAGE 24-41

- 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

ALUMINIUM PIPES, IRRIFRANCE AMS & FARMLAND (FMLD) FITTINGS



MAINLINE PIPE - Aluminium alloy pipes c/w couplers

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

AMS COUPLER, FEMALE AND MALE



AMS M 4"	AFX26056
AMS M 5"	AFX94872
AMS F 3" - less seal	AFA25852
AMS F 4" - less seal	AFX69135
AMS F 5" - less seal	AFK67928

AMS SEAL RING



Ring AMS 3"	AFX19018
Ring AMS 4"	AFQ19035
Ring AMS 5"	AFJ19052

AMS SPRING

To fit all sizes	Latch Spring	AFH96607
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VALVE ELBOW - Farmland Female outlet with seal



Valve Elb 3" / FMLD 3" F	AFJ84119
Valve Elb 4" / FMLD 4" F	AFP96889
Valve Elb 5" / FMLD 4" F	AFK14867
Valve Elb 5" / FMLD 5" F	AFZ78360

VALVE ELBOW - Extended for connection to underground mains



Valve Elb 4" / FMLD 4" F	AFS83345
Valve Elb 5" / FMLD 5" F	AFZ83328

VALVE ELBOW - Bauer (lever coupler) Male outlet



Valve Elb 4" / LC M 4"	AFH40073
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VALVE INSERT - Without Stabiliser



Insert FMLD 3" / Valve 3"	AFQ84102
Insert FMLD 4" / Valve 3"	AFW97263
Insert FMLD 4" / Valve 4"	AFP54339
Insert FMLD 5" / Valve 4"	AFA94645
Insert FMLD 5" / Valve 5"	AFL78394

VALVE HYDRANT (WELD-ON)



3" Hydrant Valve	AFJ38119
4" Hydrant Valve	AFS35689
5" Hydrant Valve	AFY78428

VALVE HYDRANT (FLANGED PN16)



Flange is black and not galvanised

Flange 65mm x Valve 3"	-
Flange 65mm x Valve 4"	-
Flange 80mm x Valve 3"	-
Flange 80mm x Valve 4"	-
Flange 100mm x Valve 4"	-
Flange 100mm x Valve 5"	-
Flange 125mm x Valve 5"	-

HYDRANT PADS & SPINDLES



Hydrant Pad 3"	AAFJ77610
Hydrant Pad 4"	AAF77627
Hydrant Pad 5"	AAFZ85007
Hydrant Spindle 3"	AAFV45972
Hydrant Spindle 4" & 5"	AAFV91167

BEND - 90° AND 45°



Bend 90 FMLD 3"	AFH96906
Bend 90 FMLD 4"	AFV96940
Bend 90 FMLD 5"	AFN96957
Bend 45 FMLD 3"	AFH75217
Bend 45 FMLD 4"	AFN49715
Bend 45 FMLD 5"	AFM56039

COUPLERS (WELD-ON)



FMLD M 3"	AFJ74369
FMLD M 4"	AFR74420
FMLD M 5"	AFY94804
FMLD M 6"	AFZ74335
FMLD F 3" - less seal	AFY75185
FMLD F 4" - less seal	AFB74590
FMLD F 5" - less seal	AFW74539
FMLD F 6" - less seal	AFJ74505

COUPLERS (HOSETAIL)



FMLD M 4" x H/Tail 100 (4")	AFP16159
FMLD M 5" x H/Tail 100 (4")	AFT70880
FMLD M 5" x H/Tail 125 (5")	AFMHT5125
FMLD F 4" x H/Tail 100 (4")	AFB16193
FMLD F 5" x H/Tail 100 (4")	AFG33448
FMLD F 5" x H/Tail 125 (5")	AFFHT5125

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

END PLUG



Plug FMLD M 2"	AFS79251
Plug FMLD M 3"	AFD96787
Plug FMLD M 4"	AFX96804
Plug FMLD M 5"	AFQ96821

SIDE TEE COUPLER



Side Tee FMLD 3"	AFD97178
Side Tee FMLD 4"	AFX97195
Side Tee FMLD 5"	AFX94458

REDUCERS & INCREASERS



Reducers - Male to Female	
FMLD M 4" - F 3"	AFF18865FMLD AFS18899
M 5" - F 4"	
Increaser - Male to Female	
FMLD M 4" - F 5"	AFE16012

SEALING RING



Ring FMLD 2"	AFP52591
Ring FMLD 3"	AFZ83006
Ring FMLD 4"	AFR82700
Ring FMLD 5"	AFS83023
Ring FMLD 6"	AFF67004

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

JAVELIN RW ALUMINIUM PIPES & FITTINGS (WRIGHT RAIN COMPATIBLE)



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 – 9 metre length aluminium alloy pipe c/w couplers



RW 3" Alu 9m	CRW000039
RW 4" Alu 9m	CRW000049
RW 5" Alu 9m	CRW000059

VALVE ELBOW



Valve Elbow 3"/RW 3" F	CRW200033
Valve Elbow 4"/RW 4" F	CRW200044
Valve Elbow 4"/RW 5" F	CRW200045
Valve Elbow 5"/RW 5" F	CRW200055

VALVE INSERT



Ins RW 3"/Valve 3"	CRW300033
Ins RW 4"/Valve 4"	CRW300044
Ins RW 5"/Valve 4"	CRW300054
Ins RW 5"/Valve 5"	CRW300055

VALVE HYDRANT (WELD-ON)



3" Hydrant Valve (Alu)	I00003A
3" Hydrant Valve (Galv)	I00003
4" Hydrant Valve (Galv)	I00004
5" Hydrant Valve (Galv)	I00005

VALVE HYDRANT (FLANGED PN16)



Flange is black and not galvanised

Flange 65mm x Valve 3"	-
Flange 65mm x Valve 4"	-
Flange 80mm x Valve 3"	-
Flange 80mm x Valve 4"	-
Flange 100mm x Valve 4"	-
Flange 100mm x Valve 5"	-
Flange 125mm x Valve 5"	-

HYDRANT PADS & SPINDLES



Hydrant Pad 3"	CRW50103
Hydrant Pad 4"	CRW50104
Hydrant Spindle 3", 4" & 5"	CRW50105

BEND – 90° AND 45°



Bend 90 RW 3"	CRW00610
Bend 90 RW 4"	CRW00800
Bend 90 RW 5"	CRW00900
Bend 45 RW 3"	CRW00605
Bend 45 RW 4"	CRW00700
Bend 45 RW 5"	CRW00850

REDUCERS & INCREASERS



Reducers – Male to Female	
RW M 4" – F 3"	CRW40134
RW M 5" – F 4"	CRW40145
RW M 6" – F 5"	CRW40156



Increaser – Male to Female	
RW M 3" – F 4"	CRW40034
RW M 4" – F 5"	CRW40045
RM M 5" – F 6"	CRW40056

MALE COUPLER



Band and Hook	
RW M 3"	CRW0003
RW M 4"	CRW0004
RW M 5"	CRW0005
RW M 6"	CRW0006



Weld On (Aluminium)	
RW M 3"	CRW10800
RW M 4"	CRW10900
RW M 5"	CRW10950
RW M 6"	CRW11000

FEMALE COUPLER – Less Seal



Weld On (Aluminium)	
VRW F 3"	CRW10500
RW F 4"	CRW10600
RW F 5"	CRW10700
RW F 6"	CRW10750

HOSETAIL COUPLER

Male and Female hoesail 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



Plug RW M 3"	CRW00400
Plug RW M 4"	CRW00500
Plug RW M 5"	CRW00600

SIDE TEE COUPLER – Less Seal



Side Tee RW 3"	CRW10003
Side Tee RW 4"	CRW10100
Side Tee RW 5"	CRW10200

END TEE COUPLER – Less Seal



End Tee RW 3"	CRW10250
End Tee RW 4"	CRW10300
End Tee RW 5"	CRW10400

PIPE SEALS



Seal RW 3"	CRW00100
Seal RW 4"	CRW00200
Seal RW 5"	CRW00300
Seal RW 6"	CRW00306

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

BAUER COMPATIBLE GALVANISED STEEL PIPES & FITTINGS



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.

- 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

PIPES & FITTINGS AVAILABLE EX-STOCK

CALL FOR SPECIAL EX-STOCK PRICES **01507 607175**

COUPLING SIZE	PIPE Ø	WALL THICKNESS (AFTER GALVANISATION)	WORKING PRESSURE	PIPE WEIGHT (APPROXIMATE)	PART NUMBER
50mm	50mm	0.8mm	20 bar	6.9 Kg	M6020506
76mm	80mm	0.8mm	20 bar	11.1 Kg	M6020766
108mm	100mm	0.9mm	12 bar	20.7 Kg	M6021086
133mm	120mm	1.0mm	12 bar	28.4 Kg	M6021336
159mm	150mm	1.1mm	12 bar	37.5 Kg	M6021596
194mm	200mm	1.3mm	12 bar	53.0 Kg	M6021946

FEMALE HOSETAIL COUPLER



50mm F x 50mm HT
76mm F x 75mm HT
108mm F x 100mm HT
133mm F x 125mm HT
159mm F x 150mm HT
194mm F x 200mm HT

M631050050
M631076076
M631108100
M631133125
M631159150
M631194200

MALE HOSETAIL COUPLER & LEVER



50mm M x 50mm HT
76mm M x 75mm HT
108mm M x 100mm HT
133mm M x 125mm HT
159mm M x 150mm HT
194mm M x 200mm HT

M632050050
M632076076
M632108100
M632133125
M632159150
M632194200

FEMALE COUPLER WITH M THREAD



50mm F x 2" M BSP
76mm F x 3" M BSP
108mm F x 4" M BSP
133mm F x 5" M BSP

M6240502
M6240763
M6241084
M6241335

MALE COUPLER WITH M THREAD & LEVER



50mm M x 2" M BSP
76mm M x 3" M BSP
108mm M x 4" M BSP
133mm M x 5" M BSP

M6250502
M6250763
M6251084
M6251335

BEND 90°



50mm M/F Bend 90
76mm M/F Bend 90
89mm M/F Bend 90
108mm M/F Bend 90
133mm M/F Bend 90
159mm M/F Bend 90
194mm M/F Bend 90

M609050
M609076
M609089
M609108
M609133
M609159
M609194

BEND 45°



50mm M/F Bend 45
76mm M/F Bend 45
89mm M/F Bend 45
108mm M/F Bend 45
133mm M/F Bend 45
159mm M/F Bend 45
194mm M/F Bend 45

M610050
M610076
M610089
M610108
M610133
M610159
M610194

SIDE TEE COUPLER



50mm M x M x F
76mm M x M x F
108mm M x M x F
133mm M x M x F
159mm M x M x F

M612050
M612076
M612108
M612133
M612159

END TEE COUPLER



50mm M x F x M
76mm M x F x M
108mm M x F x M
133mm M x F x M
159mm M x F x M

M611050
M611076
M611108
M611133
M611159

'Y' COUPLER



50mm M x F x F
76mm M x F x F
108mm M x F x F
133mm M x F x F
159mm M x F x F

M616050
M616076
M616108
M616133
M616159

IT IS THE SOLE RESPONSIBILITY OF THE PURCHASER TO ENSURE THAT ALL PIPES AND FITTINGS ARE COMPATIBLE AND OPERATIONALLY SOUND.

CONICAL REDUCER F-M



76mm F x 50mm M
89mm F x 76mm M
108mm F x 76mm M
108mm F x 89mm M
133mm F x 108mm M
159mm F x 108mm M
159mm F x 133mm M

M638076050
M638089076
M638108076
M638108089
M638133108
M638159108
M638159133

CONICAL INCREASER F-M



50mm F x 76mm M
76mm F x 89mm M
89mm F x 108mm M
108mm F x 133mm M
108mm F x 159mm M
133mm F x 159mm M

M639050076
M639076089
M639089108
M639108133
M639108159
M639133159

FEMALE PLUG C/W SEAL



50mm F Plug
76mm F Plug
89mm F Plug
108mm F Plug
133mm F Plug
159mm F Plug

M637050
M637076
M637089
M637108
M637133
M637159

MALE PLUG C/W LEVER



50mm M Plug
76mm M Plug
89mm M Plug
108mm M Plug
133mm M Plug
159mm M Plug

M636050
M636076
M636089
M636108
M636133
M636159

FOOTVALVE/STRAINER WITH MANUAL DRAIN FACILITY



50mm 20 m³/hr
76mm 30 m³/hr
89mm 40 m³/hr
108mm 50 m³/hr
133mm 70 m³/hr
159mm 110 m³/hr
194mm 180 m³/hr

M652050
M652076
M652089
M652108
M652133
M652159
M652194

FLANGED MALE COUPLER



DN65 x 76mm M
DN80 x 76mm M
DN100 x 108mm M
DN125 x 133mm M
DN150 x 159mm M

PN16 **M633.065076**
PN16 **M633.080076**
PN16 **M633.100108**
PN16 **M633.125133**
PN16 **M633.150159**

STRAINER (FOR DRAINAGE)



50mm Strainer
89mm Strainer
108mm Strainer
159mm Strainer

M653050
M653089
M653108
M653159

WELDING MALE RAW (BLACK)



50mm M Raw
76mm M Raw
89mm M Raw
108mm M Raw
133mm M Raw
159mm M Raw
194mm M Raw

M604050
M604076
M604089
M604108
M604133
M604159
M604194

FLANGED FEMALE COUPLER



DN65 x 76mm
DN80 x 76mm
DN100 x 108mm
DN125 x 133mm
DN150 x 159mm

F PN16
F PN16
F PN16
F PN16
F PN16

M634.065076
M634.080076
M634.100108
M634.125133
M634.150159

WELDING FEMALE RAW (BLACK)



LESS SEAL

50mm F Raw
76mm F Raw
89mm F Raw
108mm F Raw
133mm F Raw
159mm F Raw
194mm F Raw

M606050
M606076
M606089
M606108
M606133
M606159
M606194

LEVER RING (GALVANISED)



50mm Lever
76mm Lever
89mm Lever
108mm Lever
133mm Lever
159mm Lever
194mm Lever

M605G050
M605G076
M605G089
M605G108
M605G133
M605G159
M605G194

IT IS THE SOLE RESPONSIBILITY OF THE PURCHASER TO ENSURE THAT ALL PIPES AND FITTINGS ARE COMPATIBLE AND OPERATIONALLY SOUND.

RUBBER SEAL



50mm 60mm 80mm
76mm 90mm 115mm
89mm 110mm 135mm
108mm 140mm 165mm
133mm 150mm 190mm
159mm 170mm 210mm
194mm 210mm 250mm

M607050
M607076
M607089
M607108
M607133
M607159
M607194

WELDING HOSETAIL (BLACK)



50mm Hosetail Raw
76mm Hosetail Raw
100mm Hosetail Raw
125mm Hosetail Raw
150mm Hosetail Raw

M603050
M603076
M603100
M603125
M603150

IF YOU REQUIRE ANY FURTHER INFORMATION PLEASE VISIT OUR WEBSITE
WWW.JAVELINIRRIGATION.CO.UK

EMAIL US AT
MAIL@JAVELINIRRIGATION.CO.UK

OR CALL US ON **01507 607175**

UNIDELTA COMPRESSION FITTINGS

Unidelta compression fittings and clamp saddles are designed specifically for connecting polyethylene pipes with an outside diameter from 16 to 110 mm (200 mm for clamp saddles). They are fully compatible with all PELD, PEHD, PE40, PE80 and PE100 pipes complying with EN 12201, ISO 4427, ISO 14236, ISO 13460, DIN 8074. They are normally used to convey drinking water and fluids at pressures up to 16 bar for generic applications. The quality of the

materials used makes these fittings resistant to etching by numerous chemical substances and to UV-rays.

The Unidelta Universal Fitting can be used to connect systems using PE metric piping with existing pipes made of any material, with with external diameters of 15–34 mm.

Other sizes are available, products listed below are our standard stock fittings. Please contact for more information/prices

COUPLING



SIZE	PART No.
16mm	TPLC1616
20mm	TPLC2020
25mm	TPLC2525
32mm	TPLC3232
40mm	TPLC4040
50mm	TPLC5050
63mm	TPLC6363
75mm	TPLC7575
90mm	TPLC9090
110mm	TPLC110110

TEE



SIZE	PART No.
20mm x 20mm x 20mm	TPLT2020205
25mm x 25mm x 25mm	TPLT252525
32mm x 32mm x 32mm	TPLT323232
40mm x 40mm x 40mm	TPLT404040
50mm x 50mm x 50mm	TPLT505050
63mm x 63mm x 63mm	TPLT636363
75mm x 75mm x 75mm	TPLT757575
90mm x 90mm x 90mm	TPLT909090

MALE COUPLING



SIZE	PART No.
20mm x ¾" Male BSP	TPLMC20019
25mm x ½" Male BSP	TPLMC25013
25mm x ¾" Male BSP	TPLMC25019
25mm x 1" Male BSP	TPLMC25025
32mm x ¾" Male BSP	TPLMC32019
32mm x 1" Male BSP	TPLMC32025
32mm x 1 ¼" Male BSP	TPLMC32032
40mm x 1" Male BSP	TPLMC40025
40mm x 1 ¼" Male BSP	TPLMC40032
40mm x 1 ½" Male BSP	TPLMC40038
50mm x 1 ½" Male BSP	TPLMC50038
50mm x 2" Male BSP	TPLMC50050
63mm x 1 ½" Male BSP	TPLMC63038
63mm x 2" Male BSP	TPLMC63050
75mm x 2" Male BSP	TPLMC75050

REDUCING TEE



SIZE	PART No.
32mm x 25mm x 32mm	TPLRT322532
40mm x 32mm x 40mm	TPLRT403240
63mm x 50mm x 63mm	TPLRT635063
75mm x 63mm x 75mm	TPLRT756375

FEMALE THREADED TEE



SIZE	PART No.
25mm x 1" Female BSP x 25mm	TPLTF252525
32mm x 1" Female BSP x 32mm	TPLTF322532
40mm x 1 ½" Female BSP x 40mm	TPLTF403840
50mm x 1 ¼" Female BSP x 50mm	TPLTF503250
50mm x 1 ½" Female BSP x 50mm	TPLTF503850
50mm x 2" Female BSP x 50mm	TPLTF505050
63mm x 1 ½" Female BSP x 63mm	TPLTF633863
63mm x 2" Female BSP x 63mm	TPLTF635063
75mm x 2" Female BSP x 75mm	TPLTF755075

FEMALE COUPLING



SIZE	PART No.
20mm x ¾" Female BSP	TPLFC20019
25mm x ½" Female BSP	TPLFC25013
25mm x ¾" Female BSP	TPLFC25019
25mm x 1" Female BSP	TPLFC25025
32mm x ¾" Female BSP	TPLFC32019
32mm x 1" Female BSP	TPLFC32025
32mm x 1 ¼" Female BSP	TPLFC32032
40mm x 1" Female BSP	TPLFC40025
40mm x 1 ¼" Female BSP	TPLFC40032
40mm x 1 ½" Female BSP	TPLFC40038
50mm x 1 ½" Female BSP	TPLFC50038
50mm x 2" Female BSP	TPLFC50050
63mm x 1 ½" Female BSP	TPLFC63038
63mm x 2" Female BSP	TPLFC63050
75mm x 2" Female BSP	TPLFC75050

MALE THREADED TEE



SIZE	PART No.
25mm x ¾" Male BSP x 25mm	TPLTM251925
32mm x ¾" Male BSP x 32mm	TPLTM321932
32mm x 1" Male BSP x 32mm	TPLTM322532
50mm x 1 ½" Male BSP x 50mm	TPLTM503850
63mm x 2" Male BSP x 63mm	TPLTM635063

ELBOW

SIZE	PART No.
20mm	TPLE2020
25mm	TPLE2525
32mm	TPLE3232
40mm	TPLE4040
50mm	TPLE5050A
63mm	TPLE6363
75mm	TPLE7575
90mm	TPLE9090
110mm	TPLE110110

UNIVERSAL TRANSITION COUPLING

SIZE	PART No.
25mm x 21/27mm	TPLUC25/21X27
25mm x 27/35mm	TPLUC25/27X35
32mm x 21/27mm	TPLUC32/21X27
32mm x 27/35mm	TPLUC32/27X35
40mm x 27/35mm	TPLUC40/27X35

MALE THREADED ELBOW

SIZE	PART No.
25mm x 3/4" Male BSP	TPLEMC25019
32mm x 1" Male BSP	TPLEMC32025
40mm x 1 1/4" Male BSP	TPLEMC40032
40mm x 1 1/2" Male BSP	TPLEMC40038
50mm x 1 1/2" Male BSP	TPLEMC50038
50mm x 2" Male BSP	TPLEMC50050
63mm x 2" Male BSP	TPLEMC63050
75mm x 2" Male BSP	TPLEMC75050

SADDLE

SIZE	PART No.
25mm x 3/4" Female BSP	TPLS25019
32mm x 3/4" Female BSP	TPLS32019
50mm x 3/4" Female BSP	TPLS50019
50mm x 1" Female BSP	TPLS50025
63mm x 1" Female BSP	TPLS63025
63mm x 1 1/2" Female BSP	TPLS63038
75mm x 1 1/2" Female BSP	TPLS75038
75mm x 2" Female BSP	TPLS75050

FEMALE THREADED ELBOW

SIZE	PART No.
32mm x 1" Female BSP	TPLEFC32025
40mm x 1 1/4" Female BSP	TPLEFC40032
50mm x 1 1/4" Female BSP	TPLEFC50032
50mm x 1 1/2" Female BSP	TPLEFC50038
50mm x 2" Female BSP	TPLEFC50050
63mm x 2" Female BSP	TPLEFC63050
75mm x 2" Female BSP	TPLEF75050

LINE END

SIZE	PART No.
25mm	TPLE025
32mm	TPLE032
40mm	TPLE040
50mm	TPLE050
63mm	TPLE063
75mm	TPLE075
90mm	TPLE090

STOP COCK (NOT UNIDELTA)

SIZE	PART No.
25mm	TPLST025
32mm	TPLST032
40mm	TPLST040
50mm	TPLST050
63mm	TPLST063

JAVELIN

IRRIGATION SYSTEMS LIMITED



IF YOU REQUIRE ANY
FURTHER INFORMATION
PLEASE VISIT OUR WEBSITE

WWW.JAVELINIRRIGATION.CO.UK

EMAIL US AT
MAIL@JAVELINIRRIGATION.CO.UK

OR CALL US ON **01507 607175**

CAMLOCKS - POLY



PART A: MALE CAMLOCK TO FEMALE BSP IN POLY

	MAX WORKING PRESSURE	PART No.
½" Male x ½" Female BSP	5	2-KCCPA12
¾" Male x ¾" Female BSP	7	2-KCCPA34
1" Male x 1" Female BSP	7	2-KCCPA01
1 ¼" Male x 1 ¼" Female BSP	7	2-KCCPA114
1 ½" Male x 1 ½" Female BSP	7	2-KCCPA112
2" Male x 2" Female BSP	7	2-KCCPA02
3" Male x 3" Female BSP	4	2-KCCPA03
4" Male x 4" Female BSP	4	2-KCCPA04



PART B: FEMALE CAMLOCK TO MALE BSP IN POLY

	MAX WORKING PRESSURE	PART No.
½" Female x ½" Male	5	2-KCCPB12
¾" Female x ¾" Male BSP	7	2-KCCPB34
1" Female x 1" Male BSP	7	2-KCCPB01
1 ¼" Female x 1 ¼" Male BSP	7	2-KCCPB114
1 ½" Female x 1 ½" Male BSP	7	2-KCCPB112
2" Female x 2" Male BSP	7	2-KCCPB02
3" Female x 3" Male BSP	4	2-KCCPB03
4" Female x 4" Male BSP	4	2-KCCPB04



PART C: FEMALE CAMLOCK TO HOSETAIL IN POLY

	MAX WORKING PRESSURE	PART No.
½" Female x 13mm Hosetail	5	2-KCCPC12
¾" Female x 19mm Hosetail	7	2-KCCPC34
1" Female x 25mm Hosetail	7	2-KCCPC01
1 ¼" Female x 32mm Hosetail	7	2-KCCPC114
1 ½" Female x 38mm Hosetail	7	2-KCCPC112
2" Female x 52mm Hosetail	7	2-KCCPC02
3" Female x 70mm Hosetail	4	2-KCCPC03
4" Female x 102mm Hosetail	4	2-KCCPC04



PART D: FEMALE CAMLOCK TO FEMALE BSP IN POLY

	MAX WORKING PRESSURE	PART No.
½" Female x ½" Female BSP	5	2-KCCPD12
¾" Female x ¾" Female BSP	7	2-KCCPD34
1" Female x 1" Female BSP	7	2-KCCPD01
1 ¼" Female x 1 ¼" Female BSP	7	2-KCCPD114
1 ½" Female x 1 ½" Female BSP	7	2-KCCPD112
2" Female x 2" Female BSP	7	2-KCCPD02
3" Female x 3" Female BSP	4	2-KCCPD03
4" Female x 4" Female BSP	4	2-KCCPD04



PART E: MALE CAMLOCK TO HOSETAIL IN POLY

	MAX WORKING PRESSURE	PART No.
½" Male x 13mm Hosetail	5	2-KCCPED12
¾" Male x 19mm Hosetail	7	2-KCCPE34
1" Male x 25mm Hosetail	7	2-KCCPE01
1 ¼" Male x 32mm Hosetail	7	2-KCCPE114
1 ½" Male x 38mm Hosetail	7	2-KCCPE112
2" Male x 52mm Hosetail	7	2-KCCPE02
3" Male x 76mm Hosetail	4	2-KCCPE03
4" Male x 102mm Hosetail	4	2-KCCPE04



PART F: MALE CAMLOCK TO MALE BSP IN POLY

	MAX WORKING PRESSURE	PART No.
½" Male x ½" Male BSP	5	2-KCCPF12
¾" Male x ¾" Male BSP	7	2-KCCPF34
1" Male x 1" Male BSP	7	2-KCCPF01
1 ¼" Male x 1 ¼" Male BSP	7	2-KCCPF114
1 ½" Male x 1 ½" Male BSP	7	2-KCCPF112
2" Male x 2" Male BSP	7	2-KCCPF02
3" Male x 3" Male BSP	4	2-KCCPF03
4" Male x 4" Male BSP	4	2-KCCPF04



PART DC: FEMALE CAMLOCK DUST CAP IN POLY

	MAX WORKING PRESSURE	PART No.
¾" Camlock Dust Cap	5	2-KCCPDC34
1" Camlock Dust Cap	7	2-KCCPDC01
1 ¼" Camlock Dust Cap	7	2-KCCPDC114
1 ½" Camlock Dust Cap	7	2-KCCPDC112
2" Camlock Dust Cap	7	2-KCCPDC02
3" Camlock Dust Cap	4	2-KCCPDC03
4" Camlock Dust Cap	4	2-KCCPDC04



PART DP: MALE CAMLOCK DUST PLUG IN POLY

	MAX WORKING PRESSURE	PART No.
¾" Camlock Dust Plug	5	2-KCCPDP34
1" Camlock Dust Plug	7	2-KCCPDP01
1 ¼" Camlock Dust Plug	7	2-KCCPDP114
1 ½" Camlock Dust Plug	7	2-KCCPDP112
2" Camlock Dust Plug	7	2-KCCPDP02
3" Camlock Dust Plug	4	2-KCCPDP03
4" Camlock Dust Plug	4	2-KCCPDP04

CAMLOCKS - ALUMINIUM



PART A: MALE CAMLOCK TO FEMALE BSP IN ALUMINIUM

	MAX WORKING PRESSURE	PART No.
½" Male x ½" Female BSP	10	2-KCCAA12
¾" Male x ¾" Female BSP	10	2-KCCAA34
1" Male x 1" Female BSP	10	2-KCCAA01
1¼" Male x 1¼" Female BSP	10	2-KCCAA114
1½" Male x 1½" Female BSP	10	2-KCCAA112
2" Male x 2" Female BSP	10	2-KCCAA02
2½" Male x 2½" Female BSP	10	2-KCCAA212
3" Male x 3" Female BSP	10	2-KCCAA03
4" Male x 4" Female BSP	10	2-KCCAA04



PART B: FEMALE CAMLOCK TO MALE BSP IN ALUMINIUM

	MAX WORKING PRESSURE	PART No.
½" Female x ½" Male BSP	10	2-KCCAB12
¾" Female x ¾" Male BSP	10	2-KCCAB34
1" Female x 1" Male BSP	10	2-KCCAB01
1¼" Female x 1¼" Male BSP	10	2-KCCAB114
1½" Female x 1½" Male BSP	10	2-KCCAB112
2" Female x 2" Male BSP	10	2-KCCAB02
2½" Female x 2½" Male BSP	10	2-KCCAB212
3" Female x 3" Male BSP	10	2-KCCAB03
4" Female x 4" Male BSP	10	2-KCCAB04



PART C: FEMALE CAMLOCK TO HOSETAIL IN ALUMINIUM

	MAX WORKING PRESSURE	PART No.
½" Female x 13mm Hosetail	10	2-KCCAC12
¾" Female x 19mm Hosetail	10	2-KCCAC34
1" Female x 25mm Hosetail	10	2-KCCAC01
1¼" Female x 32mm Hosetail	10	2-KCCAC114
1½" Female x 38mm Hosetail	10	2-KCCAC112
2" Female x 52mm Hosetail	10	2-KCCAC02
2½" Female x 63mm Hosetail	10	2-KCCAC212
3" Female x 76mm Hosetail	10	2-KCCAC03
4" Female x 102mm Hosetail	10	2-KCCAC04



PART D: FEMALE CAMLOCK TO FEMALE BSP IN ALUMINIUM

	MAX WORKING PRESSURE	PART No.
½" Female x ½" Female BSP	10	2-KCCAD12
¾" Female x ¾" Female BSP	10	2-KCCAD34
1" Female x 1" Female BSP	10	2-KCCAD01
1¼" Female x 1¼" Female BSP	10	2-KCCAD114
1½" Female x 1½" Female BSP	10	2-KCCAD112
2" Female x 2" Female BSP	10	2-KCCAD02
2½" Female x 2½" Female BSP	10	2-KCCAD212
3" Female x 3" Female BSP	10	2-KCCAD03
4" Female x 4" Female BSP	10	2-KCCAD04



PART E: MALE CAMLOCK TO HOSETAIL IN ALUMINIUM

	MAX WORKING PRESSURE	PART No.
½" Female x 13mm Hosetail	10	2-KCCAE12
¾" Female x 19mm Hosetail	10	2-KCCAE34
1" Female x 25mm Hosetail	10	2-KCCAE01
1¼" Female x 32mm Hosetail	10	2-KCCAE114
1½" Female x 38mm Hosetail	10	2-KCCAE112
2" Female x 52mm Hosetail	10	2-KCCAE02
2½" Female x 63mm Hosetail	10	2-KCCAE212
3" Female x 76mm Hosetail	10	2-KCCAE03
4" Female x 102mm Hosetail	10	2-KCCAE04



PART F: MALE CAMLOCK TO MALE BSP IN ALUMINIUM

	MAX WORKING PRESSURE	PART No.
½" Male x ½" Male BSP	10	2-KCCAF12
¾" Male x ¾" Male BSP	10	2-KCCAF34
1" Male x 1" Male BSP	10	2-KCCAF01
1¼" Male x 1¼" Male BSP	10	2-KCCAF114
1½" Male x 1½" Male BSP	10	2-KCCAF112
2" Male x 2" Male BSP	10	2-KCCAF02
2½" Male x 2½" Male BSP	10	2-KCCAF212
3" Male x 3" Male BSP	10	2-KCCAF03
4" Male x 4" Male BSP	10	2-KCCAF04



PART DC: FEMALE CAMLOCK DUST CAP IN ALUMINIUM

	MAX WORKING PRESSURE	PART No.
½" Camlock Dust Cap	10	2-KCCADC12
¾" Camlock Dust Cap	10	2-KCCADC34
1" Camlock Dust Cap	10	2-KCCADC01
1¼" Camlock Dust Cap	10	2-KCCADC114
1½" Camlock Dust Cap	10	2-KCCADC112
2" Camlock Dust Cap	10	2-KCCADC02
2½" Camlock Dust Cap	10	2-KCCADC212
3" Camlock Dust Cap	10	2-KCCADC03
4" Camlock Dust Cap	10	2-KCCADC04



PART DP: MALE CAMLOCK DUST PLUG IN ALUMINIUM

	MAX WORKING PRESSURE	PART No.
½" Camlock Dust Plug	10	2-KCCADP12
¾" Camlock Dust Plug	10	2-KCCADP34
1" Camlock Dust Plug	10	2-KCCADP01
1¼" Camlock Dust Plug	10	2-KCCADP114
1½" Camlock Dust Plug	10	2-KCCADP112
2" Camlock Dust Plug	10	2-KCCADP02
2½" Camlock Dust Plug	10	2-KCCADP212
3" Camlock Dust Plug	10	2-KCCADP03
4" Camlock Dust Plug	10	2-KCCADP04

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



20mm	49010020
25mm	49010025
32mm	49010040
40mm	49010040
50mm	49010050
63mm	49010063
75mm	49010075
90mm	49010090
110mm	49010110
160mm	49010160

49120 EF END CAP



20mm	49120020
25mm	49120025
32mm	49120032
40mm	49120040
50mm	49120050
63mm	49120063
75mm	49120075
90mm	49120090
110mm	49120110
160mm	49120160

49127 SPIGOT END PLUG



32mm	49127032
50mm	49127050
63mm	49127063
75mm	49127075
90mm	49127090
110mm	49127110
160mm	49127160

49040 EF EQUAL TEE



20mm Equal Tee	49040020
25mm Equal Tee	49040025
32mm Equal Tee	49040032
40mm Equal Tee	49040040
50mm Equal Tee	49040050
63mm Equal Tee	49040063
75mm Equal Tee	49040075
90mm Equal Tee	49040090
110mm Equal Tee	49040110
160mm Equal	49040160

49050 90 DEGREE ELBOW



20mm	49050020
25mm	49050025
32mm	49050032
40mm	49050040
50mm	49050050
63mm	49050063
75mm	49050075
90mm	49050075
110mm	49050110
160mm	49050160

49060 EF 45 DEGREE ELBOW



32mm	49060032
40mm	49060040
50mm	49060050
63mm	49060063
75mm	49060075
90mm	49060090
110mm	49060110
160mm	49060160

49027 EF SPIGOT FLANGE ADAPTOR



32mm	49027032
50mm	49027050
63mm	49027063
75mm	49027075
90mm	49027090
110mm	49027110
160mm	49027160

STUB FLANGE KIT**

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



63mm
90mm
110mm
160mm

**Not Plasson

GALVANISED MALLEABLE FITTINGS

WROUGHT IRON BARREL SOCKET EN10241 (BS1740) GALVANISED



½"
¾"
1"
1¼"
1½"
2"
2½"
3"
4"

WROUGHT IRON BARREL NIPPLE GALVANISED



½"
¾"
1"
1¼"
1½"
2"
2½"
3"
4"

CONCENTRIC REDUCING SOCKET GALVANISED



½" - ¼"
¾" - ½"
1" - ½"
1" - ¾"
1¼" - 1"
1½" - 1"
1½" - 1¼"
2" - 1"
2" - 1½"
3" - 2"
3" - 2½"
4" - 2"

HEXAGON REDUCING NIPPLE GALVANISED



½" - ¼"
¾" - ½"
1" - ½"
1" - ¾"
1¼" - ¾"
1¼" - 1"
1½" - 1"
1½" - 1¼"
2" - 1"
2½" - 2"
2" - 2½"
3" - 2"
3" - 2½"

HEXAGON BUSH GALVANISED



½" - ¼"
¾" - ½"
1" - ½"
1" - ¾"
1¼" - ¾"
1½" - 1"
1½" - 1¼"
2" - 1"
2" - 1½"
2½" - 2"
3" - 2"
3" - 2½"
4" - 3"

HEXAGON NIPPLE



½"
¾"
1"
1¼"
1½"
2"
2½"
3"
4"

STRAIGHT UNION GALVANISED



½"
¾"
1"
1¼"
1½"
2"
2½"
3"
4"

STRAIGHT UNION MALE FEMALE GALVANISED



½"
¾"
1"
1¼"
1½"
2"
2½"
3"

EQUAL ELBOW 90° GALVANISED



½"
¾"
1"
1¼"
1½"
2"
2½"
3"
4"

EQUAL ELBOW 90° MALE / FEMALE GALVANISED



½"
¾"
1"
1¼"
1½"
2"
2½"
3"
4"

GALVANISED MALLEABLE FITTINGS

REDUCING ELBOW 90° GALVANISED



$\frac{1}{2}$ " - $\frac{1}{4}$ "
 $\frac{3}{4}$ " - $\frac{1}{2}$ "
 1" - $\frac{1}{2}$ "
 1" - $\frac{3}{4}$ "
 $1\frac{1}{4}$ " - 1"
 $1\frac{1}{2}$ " - 1"
 2" - 1"
 2" - $1\frac{1}{2}$ "

EQUAL TEE GALVANISED



$\frac{1}{4}$ "
 $\frac{1}{2}$ "
 $\frac{3}{4}$ "
 1"
 $1\frac{1}{4}$ "
 $1\frac{1}{2}$ "
 2"
 $2\frac{1}{2}$ "
 3"

REDUCING BRANCH TEE GALVANISED



$\frac{1}{2}$ " - $\frac{1}{4}$ "
 $\frac{3}{4}$ " - $\frac{1}{2}$ "
 1" - $\frac{1}{2}$ "
 1" - $\frac{3}{4}$ "
 $1\frac{1}{4}$ " - 1"
 $1\frac{1}{2}$ " - 1"
 $1\frac{1}{2}$ " - $1\frac{1}{4}$ "
 2" - $\frac{1}{2}$ "
 2" - 1"
 2" - $1\frac{1}{2}$ "
 $2\frac{1}{2}$ " - 2"
 3" - 2"
 4" - 3"

SOLID BLANKING PLUG GALVANISED



$\frac{1}{4}$ "
 $\frac{1}{2}$ "
 $\frac{3}{4}$ "
 1"
 $1\frac{1}{4}$ "
 $1\frac{1}{2}$ "
 2"

BLANKING CAP GALVANISED



$\frac{1}{2}$ "
 $\frac{3}{4}$ "
 1"
 $1\frac{1}{4}$ "
 $1\frac{1}{2}$ "
 2"
 $2\frac{1}{2}$ "
 3"
 4"



STEEL ROAD CROSSINGS



Standard Road Crossing
shown with Bauer female coupler



Crossing with Side Ramps

- 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)


AVAILABLE SIZES

3 metre length with couplings | 4 metre length with couplings | 5 metre length with couplings


Other lengths are available with price upon request

FLANGES AND ACCESORRIES


PN16 PLATE FLANGES

	DESCRIPTION	PART No.
	PN16 DN50 Flange (2")	FL050
	PN16 DN65 Flange (2 ½")	FL065
	PN16 DN80 Flange (3")	FL080
	PN16 DN100 Flange (4")	FL100
	PN16 DN125 Flange (5")	FL125
	PN16 DN150 Flange (6")	FL150
	PN16 DN200 Flange (8")	FL200

PN16 THREADED FLANGES

	DESCRIPTION	PART No.
	PN16 DN50 Flange x 2" BSP	15130265
	PN16 DN65 Flange x 2 ½" BSP	15130276
	PN16 DN80 Flange x 3" BSP	15130287
	PN16 DN100 Flange x 4" BSP	15130298
	PN16 DN125 Flange x 5" BSP	15130306
	PN16 DN150 Flange x 6" BSP	15130317

PN16 BLANK FLANGES

	DESCRIPTION	PART No.
	PN16 DN50 Blank Flange (2") 1	5134059
	PN16 DN65 Blank Flange (2 ½")	15134070
	PN16 DN80 Blank Flange (3")	15134081
	PN16 DN100 Blank Flange (4")	15134092
	PN16 DN125 Blank Flange (5")	15134111
	PN16 DN150 Blank Flange (6")	15134100
	PN16 DN200 Blank Flange (8")	15341333

FULL FACE FLANGED GASKETS

	DESCRIPTION	PART No.
	Flange Rubber Gasket DN50	FLG050FF
	Flange Rubber Gasket DN65	FLG065FF
	Flange Rubber Gasket DN80	FLG080FF
	Flange Rubber Gasket DN100	FLG100FF
	Flange Rubber Gasket DN125	FLG125FF
	Flange Rubber Gasket DN150	FLG150FF
	Flange Rubber Gasket DN200	FLG200FF

SCH40 WELD ELBOWS

	DESCRIPTION	PART No.
	50mm SCH40 Elbow 90°	65830007
	65mm SCH40 Elbow 90°	65830018
	80mm SCH40 Elbow 90°	65830029
	100mm SCH40 Elbow 90°	65830040
	125mm SCH40 Elbow 90°	65830095
	150mm SCH40 Elbow 90°	65830051
	200mm SCH40 Elbow 90°	65830062


BS1965 WELD ELBOWS - FOR GALVANISING

	DESCRIPTION	PART No.
	50mm BS1965 Elbow 90°	16010072
	65mm BS1965 Elbow 90°	16010083
	80mm BS1965 Elbow 90°	16010094
	100mm BS1965 Elbow 90°	16010113
	125mm BS1965 Elbow 90°	16010124
	150mm BS1965 Elbow 90°	16010135
	200mm BS1965 Elbow 90°	16010157

SCH40 WELD TEE

	DESCRIPTION	PART No.
	50mm SCH40 Tee	65830808
	65mm SCH40 Tee	65830819
	80mm SCH40 Tee	65830830
	100mm SCH40 Tee	65830841
	125mm SCH40 Tee	65830896
	150mm SCH40 Tee	65830852
	200mm SCH40 Tee	65830863

BS1965 WELD TEE - FOR GALVANISING

	DESCRIPTION	PART No.
	50mm BS1965 Tee	16012043
	65mm BS1965 Tee	16012054
	80mm BS1965 Tee	16012065
	100mm BS1965 Tee	16012076
	125mm BS1965 Tee	16012087
	150mm BS1965 Tee	16012098
	200mm BS1965 Tee	16012139

SCH40 CONCENTRIC REDUCER

	DESCRIPTION	PART No.
	65mm x 50mm SCH40 Reducer	65833205
	80mm x 65mm SCH40 Reducer	65830328
	100mm x 80mm SCH40 Reducer	65830350
	125mm x 100mm SCH40 Reducer	65837117
	150mm x 125mm SCH40 Reducer	65879455
	150mm x 100mm SCH40 Reducer	65830372
	200mm x 150mm SCH40 Reducer	65830394

BS1965 CONCENTRIC REDUCER - FOR GALVANISING

	DESCRIPTION	PART No.
	65mm x 50mm SCH40 Reducer	65833205
	80mm x 65mm SCH40 Reducer	65830328
	100mm x 80mm SCH40 Reducer	65830350
	125mm x 100mm SCH40 Reducer	65837117
	150mm x 125mm SCH40 Reducer	65879455
	150mm x 100mm SCH40 Reducer	65830372
	200mm x 150mm SCH40 Reducer	65830394

PVC UNDERGROUND PIPEWORK, HYDRANT ASSEMBLIES & ACCESSORIES

DUCTILE IRON FITTINGS AVAILABLE FROM STOCK. Contact for special price on 160mm and 200mm underground main pipe



- 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

DESCRIPTION	REF
1 metre x 4" riser + 4" weld-on hydrant, FMLD or RW	A1
1 metre x 5" riser + 5" weld-on hydrant, FMLD or RW	A2
1 metre x 4" riser + 4" flanged weld-on hydrant, FMLD or RW	C2
1 metre x 5" riser + 5" flanged weld-on hydrant, FMLD or RW	C3



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 HYDRANTS

DESCRIPTION	REF
1 metre x 4" riser + 4" weld-on hydrant, FMLD or RW	B1
1 metre x 5" riser + 5" weld-on hydrant, FMLD or RW	B2
1 metre x 4" riser + 4" flanged weld-on hydrant, FMLD or RW	D2
1 metre x 5" riser + 5" flanged weld-on hydrant, FMLD or RW	D3

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



CONSTRUCTION

- End ring and adapter body/centre sleeve Ductile iron to BS EN1563:1997
- **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

- 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

SIZE RANGE (MM)	STANDARD SLEEVE PART NO.	OVERALL LENGTH (MM)	STANDARD SLEEVE PART NO.	OVERALL LENGTH (MM)
85 - 107	J6B13910434	190	J6B13999650	285
107 - 132	J6B13910445	190	J6B13999651	285
132 - 158	J6B13910456	190	J6B13999655	285
158 - 184	J6B13910467	190	J6B13999652	285
218 - 244	J6B13910478	230	QJ6B13999653	285
266 - 295	J6B13910489	230	J6B13999654	350

RAW FITTINGS AND ACCESSORIES

FITTING	TYPE	PART NO.
160mm Double	Female	J7E220V160
200mm Double	Female	J7E220V200
160mm Double	Male	J7E218V160
200mm Double	Male	J7E218V200
160mm Tee	Female	J7E207V160
160mm Bend 90°	Female	J7E202V160
160mm Seal	-	J7E223160
200mm Seal	-	J7E223200

ASSOCIATED EQUIPMENT



VALVES
Gatevalves, Check valves See page 41



FLANGED BAUER COUPLERS
Male and Female PN16 flange couplers See page 40



Flanged Valve Hydrants
PN16 flanges c/w Irrifrance or Wright Rain hydrants See pages 25

IRRIFRANCE LOZ COUPLERS AND HOSE BANDS FOR PET HOSES



STEEL BAND		LOZ COUPLER		STEEL BAND			
DESCRIPTION		PET WALLø		BAR		PART No.	
44mm Coupler 44mm Band		3.5mm				MPG 33977 MPY 38431	
50mm Coupler 50mm Coupler 50mm Band		3.7mm 4.8mm		8 10		MPF 96927 MPZ 76543 MPS 76560	
60mm Coupler 60mm Band		4.5mm		8		MPR 71292 MPS 70442	
63mm Coupler 63mm Coupler 63mm Band		4.7mm 5.8mm		8 10		MPD 89634 MPL 76577 MPE 76594	
70mm Coupler 70mm Band		5mm				MPY 37189 MPP 36951	
75mm Coupler 75mm Coupler 75mm Band		5.5mm 6.8mm				MPT 74928 MPH 88212 MPN 74877	
82mm Coupler 82mm Coupler 82mm Band		6mm 7.5mm				MPC 87655 MPB 88229 MPK 85615	
90mm Coupler 90mm Coupler 90mm Band		6.7mm 8.2mm				MPM 74945 MPR 17610 MPG 74894	
100mm Coupler 100mm Coupler 100mm Band		7mm 9mm				MPB 12030 MPH 67604 MPW 11588	
110mm Coupler 110mm Coupler 110mm Coupler 110mm Coupler 110mm Band		7.5mm 8.2mm 10mm 12.3mm				MPF 74962 MPB 67621 MPD 45129 MPG 96675 MPA 74911	

BRASS HOSETAIL COUPLERS

	HOSETAIL X M BSP	HOSETAIL X F BSP
		
SIZE	PART NO.	PART NO.
½"	HTBM015	HTBF015
¾"	HTBM020	HTBF020
1"	HTBM025	HTBF025
1 ¼"	HTBM032	HTBF035
1 ½"	HTBM040	HTBF040
2"	HTBM050	HTBF050

POLY HOSETAIL COUPLERS

	HOSETAIL X M BSP	HOSETAIL X F BSP
		
SIZE	PART NO.	PART NO.
¾"	HTPM020	HTPF020
1"	HTPM025	HTPF025
1 ¼"	HTPM032	HTPF035
1 ½"	HTPM040	HTPF040
2"	HTPM050	HTPF050

GEKA 'SWIFT' COUPLERS -

Suitable for use with Tricoflex type hoses

	GEKA HOSETAIL	GEKA X M BSP	GEKA X F BSP
			
SIZE	PART NO.	PART NO.	PART NO.
½"	TRH330213	TRM331013	TRF330013
¾"	TRH330219	TRM331019	TRF330019
1"	TRH330225	TRM331025	TRF330025
1 ¼"	TRH330232	-	-
	GEKA 3-WAY	GEKA CAP	GEKA SEAL
			
SIZE	PART NO.	PART NO.	PART NO.
¾"	TRW332019	-	-
All Sizes	-	TRB330300	TRS330400

PIPES, HOSES, FITTINGS & CLIPS

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
2"	12 BAR	Oroflex 10	DH17510	56-59mm
3"	12 BAR	Oroflex 10	DH17529	80-85mm
4"	10 BAR	Oroflex 10	---	104-112mm
5"	10 BAR	Oroflex 10	---	131-139mm
6"	10 BAR	Oroflex 10	---	162-174mm

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
2"	20 BAR	Oroflex 20	DH17510	56-59mm
3"	17 BAR	Oroflex 20	DH17530	80-85mm
3 1/2"	15 BAR	Oroflex 80	DH17535	92-97mm
4"	17 BAR	Oroflex 20	DH17540	104-112mm
5"	17 BAR	Oroflex 20	DH17550	131-139mm
6"	17 BAR	Oroflex 20	DH17560	162-174mm

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 SIZE	PART NO
1/2"	9 bar	25-50-100	Yellow	16 - 25mm	BFT012
3/4"	9 bar	25-50-100	Yellow	16 - 25mm	BFT019
1"	8 bar	25-50-100	Yellow	25 - 35mm	BFT025
1 1/4"	8 bar	25-50-100	Yellow	30 - 40mm	BFT030
1 1/2"	8 bar	25-50-100	Yellow	48 - 51mm	BFT040
2"	8 bar	25-50-100	Yellow	60 - 63mm	BFT050

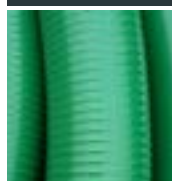
SEVERN 9610



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
2"	4.5 BAR	Severn 9610	56-59mm
3"	4 BAR	Severn 9610	80-85mm
4"	4 BAR	Severn 9610	104-112mm
6"	2.5 BAR	Severn 9610	162-174mm

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 SIZE
2"	5 bar	15 bar	Green	J555200	60 - 63mm
3"	4 bar	12 bar	Green	J555300	86 - 91mm
4"	3 bar	9 bar	Green	J555400	113 - 121mm
5"	5 bar	15 bar	Grey	J555500	140 - 148mm
6"	4 bar	12 bar	Grey	J555600	162 - 174mm
8"	Information and prices on request				

SUCTION & DELIVERY HOSES



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

SIZE (MM)	PART NO	SIZE (MM)	PART NO
16 - 25	TNC016025	80 - 85	MIK 080085
25 - 35	TNC025035	86 - 91	MIK 086091
30 - 40	TNC030040	92 - 97	MIK 092097
40 - 43	MIK 040043	97 - 104	MIK 097104
43 - 47	MIK 043047	104 - 112	MIK 104112
48 - 51	MIK 048051	113 - 121	MIK 113121
52 - 55	MIK 052055	122 - 130	MIK 122130
56 - 59	MIK 056059	131 - 139	MIK 131139
60 - 63	MIK 060063	140 - 148	MIK 140148
64 - 68	MIK 064068	149 - 161	MIK 149161
69 - 73	MIK 069073	162 - 174	MIK 162174
74 - 79	MIK 074079	213 - 226	MIK 213226

PE80 - MDPE WATER PIPE - 12 BAR RATED



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
- 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

DIAMETER (O.D)	PRESSURE RATING	COIL LENGTH (METRES)	PIPE RATING
20mm	12 BAR	25-50-100	SDR9
25mm	12 BAR	25-50-100	SDR11
32mm	12 BAR	25-50-100-150	SDR11
40mm	12 BAR	50-100	SDR11
50mm	12 BAR	25-50-100	SDR11
63mm	12 BAR	6-25-50-100-150	SDR11

WATER METERS & ACCESSORIES

PE80 - MDPE WATER PIPE - 12 BAR RATED



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.

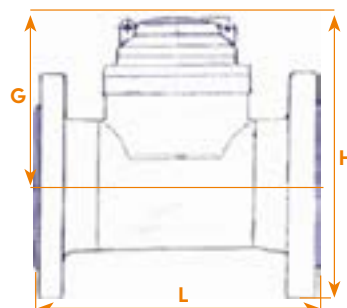
NOTE

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 ³ /hr	30	50	150	180	200	400	600
Maximum Flow Rate	Q _{max}	m ³ /hr	60	100	220	250	350	600	900
Minimum Flow Rate	Q _{min}	m ³ /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
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



DESCRIPTION	PART No.
DN65 x 76MM F	M634.065076
DN80 x 76MM F	M634.080076
DN100 x 108MM F	M634.100108
DN125 x 133MM F	M634.125133
DN150 x 159MM F	M634.150159

PN16 FLANGED MALE COUPLER



DESCRIPTION	PART No.
DN65 x 76mm M	M633.065076
DN80 x 76mm M	M633.080076
DN100 x 108mm M	M633.100108
DN125 x 133mm M	M633.125133
DN150 x 159mm M	M633.150159

RUBBER FLANGE GASKETS (FULL FACE)



SIZE	PART No.	SIZE	PART No.
50mm	FLG050FF	125mm	FLG125FF
65mm	FLG065FF	150mm	FLG150FF
80mm	FLG080FF	200mm	FLG200FF
100mm	FLG100FF		

NUTS, BOLTS & WASHERS

FLANGE SIZE	QTY REQUIRED
Up to 100mm	4 sets
Over 100mm	8 sets

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



DESCRIPTION	PART No.
DN50 x 3" F	N/A
DN65 x 3" F	N/A
DN65 x 4" F	N/A
DN80 x 4" F	N/A
DN80 x 5" F	N/A
DN100 x 4" F	N/A
DN100 x 5" F	N/A
DN125 x 4" F	N/A
DN125 x 5" F	N/A
DN150 x 5" F	N/A

PN16 FLANGED MALE COUPLER



DESCRIPTION	PART No.
DN50 x 3" M	N/A
DN65 x 3" M	N/A
DN65 x 4" M	N/A
DN80 x 4" M	N/A
DN80 x 5" M	N/A
DN100 x 4" M	N/A
DN100 x 5" M	N/A
DN125 x 4" M	N/A
DN125 x 5" M	N/A
DN150 x 5" M	N/A

VALVES & ACCESSORIES ECONOMY VALVES AVAILABLE PLEASE CALL FOR INFO

GATE VALVES



- 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

SIZE	PART NO.
DN50	GVF050
DN80	GVF080
DN100	GVF100
DN150	GVF150
DN200	GVF200

BUTTERFLY VALVES



- 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)

SIZE	PART NO.
DN50	BFV050
DN65	BFV065
DN80	BFV080
DN100	BFV100
DN125	BFV125
DN150	BFV150
DN200	BFV200

CHECK VALVES

SWING VALVE



- 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

SIZE	PART NO.
DN50	CVSWF050
DN65	CVSWF065
DN80	CVSWF080
DN100	CVSWF100
DN125	CVSWF125
DN150	CVSWF150
DN200	CVSWF2

SPRING VALVE



- 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)

SIZE	PART NO.
DN50	CVSPF050
DN65	CVSPF065
DN80	CVSPF080
DN100	CVSPF100
DN125	CVSPF125
DN150	CVSPF150
DN200	CVSPF200

CHECK VALVES - BALL TYPE



THREADED FEM BSP	WEIGHT KG	PART NO.
1½"	2.4	CVBB040
2"	3.6	CVBB050



FLANGED PN16	WEIGHT KG	PART NO.
DN65	14	CVBF065
DN80	19.5	CVBF080
DN100	23.5	CVBF100

- 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



- 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.

SIZE	PART NO.
½"	CVSWB015
¾"	CVSWB020
1"	CVSWB025
1¼"	CVSWB032
1½"	CVSWB040
2"	CVSWB050

SPRING VALVE



- Check Valve with Spring loaded piston
- Brass construction
- Stainless steel spring
- Horizontal or vertical use
- Threaded BSP parallel
- Pressure Rating: ½" - 1" 16 bar
- 1¼" - 2" 10 bar
- Temp. Rating: -10°C to 110°C

SIZE	PART NO.
½"	CVSPB015
¾"	CVSPB020
1"	CVSPB025
1¼"	CVSPB032
1½"	CVSPB040
2"	CVSPB050

GATE VALVES



- 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

SIZE	PART NO.
¾"	GVB020
1"	GVB025
1¼"	GVB032
1½"	GVB040
2"	GVB050
2½"	GVB065
3"	GVB080

LEVER BALL VALVES



- 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

SIZE	PART NO.
1/2"	BV015
3/4"	BV020
1"	BV025
1 1/4"	BV032
1 1/2"	BV040
2"	BV050
3"	BV080
4"	BV100

MINI BALL VALVE



- 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

SIZE	PART NO.
1/4"	BVM008
1/2"	BVM015

PRESSURE RELIEF VALVES



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

SIZE	PART NO.
1/2"	PRV012
3/4"	PRV020
1"	PRV025
1 1/4"	PRV032
1 1/2"	PRV040
2"	PRV050

STOP TAP VALVE



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

SIZE	PART NO.
20mm	TPLST020
25mm	TPLST025
32mm	TPLST032
40mm	TPLST040
50mm	TPLST050
63mm	TPLST063

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

DESCRIPTION	REF	PART NO.
Pressure Gauge 0 - 6 bar		QG370601
Pressure Gauge 0 - 16 bar		MPW19454

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	m ³ /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



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.



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.



**“EVERYTHING YOU NEED
MASSIVE STOCK USE THESE
ALL THE TIME. FROM A SIMPLE
FITTING TO A BORE HOLE
PUMP THEY HAVE IT.”**

Martie Cook

PUMPING EQUIPMENT

PAGE 44-54

- COMPLETE ROVATTI RANGE FOR SURFACE AND SUBMERSIBLE APPLICATIONS.
- DAB ELECTRIC PUMPS

ROVATTI PUMPS FOR CLEAN WATER APPLICATIONS

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

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 m³/hr) @ 130metres/head, 1750 rpm, 82% efficiency
- Prices for this complete series are available on request

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

EASY MAINTENANCE WITH 'TWINNER' 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 ³ /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 m³/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 ³ /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					
T3-80A	80 x 65mm	501 x 6.38	m/hd				103 123				
T4-100	100 x 80mm	540 x 6.93	m/hd					122 127.5	116.5 125	117	100.5

ROVATTI PUMPS FOR SLURRY & DIRTY WATERS

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 ³ /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 ³ /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 TLKC pumps are the same as for TLK pumps

PTO PUMP ACCESSORIES, SEE PAGE 52

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

ROVATTI PUMPS FOR CLEAN WATER APPLICATIONS

ACCESSORIES FOR TRACTOR PTO PUMPS



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

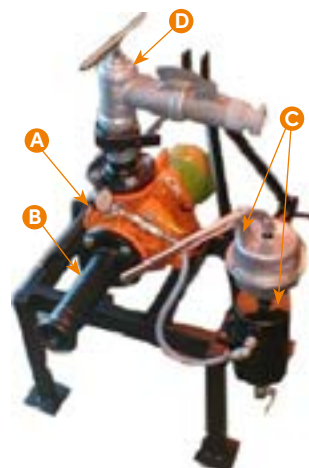
PUMP TYPE	SERIES
TOF-50	Green Line
TOF-50A	Green Line
T1-40	Green Line
T2-65	Green Line
T3-80A	Green Line
T4-100	Green Line
TL2-85GA	Orange Line
TL3-80GA	Orange Line
TL4-100GA	Orange Line
TL3-K80(C)GA	Orange Line
TL4-K100(C)GA	Orange Line
TL4-K125(C)GA	Orange Line

PUMP SUCTION EXTENSION, MANUAL PRIMING PUMP (SAM) & FILTER

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



Manual Primer

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 ½" hoesetail connection

PRICES FOR PRIMING PUMPS	REF	PART NUMBER	CODE
Super Primer, 12-volt		SP99100	(Q)
Exhaust Primer c/w Lever		DEPEP5800146	(L)
Submersible Pump Baby Battery		UP05	(Q)
Rovatti Manual Priming Pump		PAM RVZ21969E	(L)

**SUCTION AND DELIVERY ASSEMBLIES AND FITTINGS,
DETAILS ON PAGES 53-54**

ROVATTI ELECTRIC SUBMERSIBLE PUMPS - WASTE WATER & DRAINAGE

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

SUITABLE FOR:

- Reservoir filling
- Priming a 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

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

Fig. 1

Wet installation on automatic coupling foot

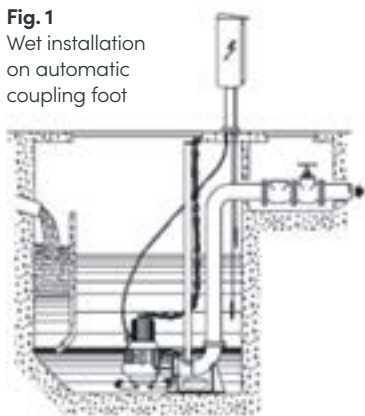


Fig. 2

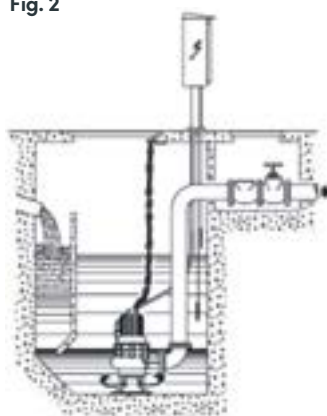


Fig. 2 & 3

Free standing wet installation for rigid or flexible pipeline connection

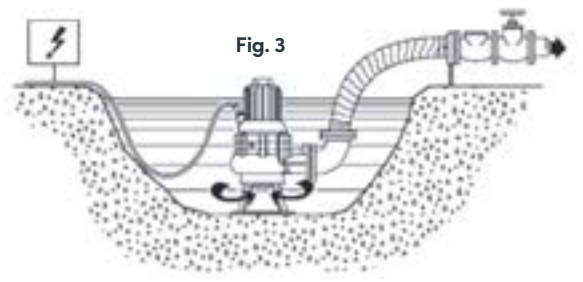
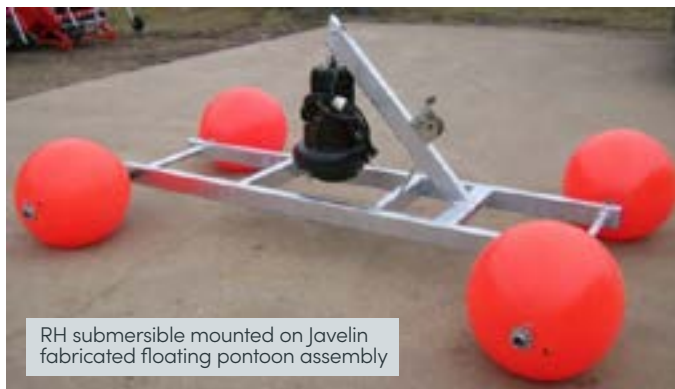


Fig. 3



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

PUMP ACCESSORIES ON PAGE 50

FULL TECHNICAL DETAILS, SPECIFICATIONS ON REQUEST

ROVATTI ELECTRIC SUBMERSIBLE PUMPS - WASTE WATER & DRAINAGE



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



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



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

RH65 SERIES		2-POLE MOTOR (2,900 RPM)																1	
TABLE J	3-PH	MOTOR	MOTOR	MOTOR	OUTLET	SOLIDS	M ³ /HR	0	10	15	20	30	40	50	60	70	80		
MODEL	MODEL	KW	POLE	AMPS	SIZE	Ø	L/MIN	0	166	250	333	500	666	833	1000	1166	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	MOTOR	MOTOR	MOTOR	OUTLET	SOLIDS	M ³ /HR	0	4	8	12	16	20	24	28	32	36		
MODEL	MODEL	KW	POLE	AMPS	SIZE	Ø	L/MIN	0	66	133	200	266	333	400	466	533	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		

RH80 SERIES		2-POLE MOTOR (2,900 RPM)																1	
TABLE L	3-PH	MOTOR	MOTOR	MOTOR	OUTLET	SOLIDS	M ³ /HR	0	20	30	40	50	60	70	80	100	140		
MODEL	MODEL	KW	POLE	AMPS	SIZE	Ø	L/MIN	0	333	500	666	833	1000	1166	1333	1667	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	MOTOR	MOTOR	MOTOR	OUTLET	SOLIDS	M ³ /HR	0	40	60	70	80	90	100	105	110	115		
MODEL	MODEL	KW	POLE	AMPS	SIZE	Ø	L/MIN	0	666	1000	1166	1333	1500	1667	1750	1833	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	MOTOR	MOTOR	MOTOR	OUTLET	SOLIDS	M ³ /HR	0	30	40	45	50	55	60	65	70	80		
MODEL	MODEL	KW	POLE	AMPS	SIZE	Ø	L/MIN	0	500	666	750	833	916	100	1083	1166	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		

RH100 SERIES		4-POLE MOTOR (1,450 RPM)																1	
TABLE O	3-PH	MOTOR	MOTOR	MOTOR	OUTLET	SOLIDS	M ³ /HR	0	60	80	100	120	140	160	180	190	210		
MODEL	MODEL	KW	POLE	AMPS	SIZE	Ø	L/MIN	0	1000	1333	1667	2000	2333	2667	3000	3167	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	MOTOR	MOTOR	MOTOR	OUTLET	SOLIDS	M ³ /HR	0	60	80	100	120	140	160	180	190	210		
MODEL	MODEL	KW	POLE	AMPS	SIZE	Ø	L/MIN	0	1000	1333	1667	2000	2333	2667	3000	3167	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		

2

RH150 SERIES		4-POLE MOTOR (1,450 RPM)															
TABLE Q	3-PH MODEL	MOTOR KW	MOTOR POLE	MOTOR AMPS	OUTLET SIZE	SOLIDS Ø	M ³ /HR L/MIN	0 0	75 1250	100 1667	150 2500	200 3344	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	M ³ /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

3

RHV65 SERIES		2-POLE MOTOR (2,900 RPM)															
TABLE S	3-PH MODEL	MOTOR KW	MOTOR POLE	MOTOR AMPS	OUTLET SIZE	SOLIDS Ø	M ³ /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	M ³ /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

RHV80 SERIES		4-POLE (1,450 RPM) MOTOR															
TABLE T	3-PH MODEL	MOTOR KW	MOTOR POLE	MOTOR AMPS	OUTLET SIZE	SOLIDS Ø	M ³ /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	M ³ /HR L/MIN	0 0	10 166	20 333	30 500	40 666	50 833	60 1000	65 1083	75 1250	85 1416
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

RHV100 SERIES		4-POLE (1,450 RPM) MOTOR															
TABLE T	3-PH MODEL	MOTOR KW	MOTOR POLE	MOTOR AMPS	OUTLET SIZE	SOLIDS Ø	M ³ /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	M ³ /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

FULL DETAILS, TECHNICAL SPECIFICATIONS AND PRICES AVAILABLE ON REQUEST

PUMP ACCESSORIES ON PAGE 52

SUBMERSIBLE PUMP ACCESSORIES - WASTE WATER & DRAINAGE / PUMP ACCESSORIES

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/m³**

- 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 MODEL	1-PH MODEL	3-PH MODEL	MOTOR Kw	OUTLET SIZE	SOLIDS Ø	M ³ /HR L/MIN	0 0	5 83	10 166	12.5 208	15 250	17.5 291	20 333	22.5 375	25 416	30 500
HS40V/F-006	M2+G	T2	0.6	1½" V	35mm	m/hd	8	5.5	3.2	1.7						
HS40V/E-009	M2+G	T2	0.9	1½" V	30mm	m/hd	10.9	9	6.9	5.3	3.5	1				
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

TABLE F MODEL	1-PH MODEL	3-PH MODEL	MOTOR Kw	OUTLET SIZE	SOLIDS Ø	M ³ /HR L/MIN	0 0	10 166	15 250	20 333	25 416	30 500	35 583	40 666	45 750	50 833
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				
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	
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

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 ³ /HR	0	0.6	1.2	1.8	2.4	3
Baby Battery	M/Hd	6.5	5.5	4.5	3.5	2.5	1.5

ACCESSORIES FOR SUBMERSIBLE PUMPS



+PAUTO COUPLING FOOT

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

TYPE	FOR PUMP
DN65 - 2"	RH65
DN80 - 2"	RH80
DN100 - 2"	RH100
DN150 - 2"	RH150



+C PEDESTAL

Hot galvanised steel

TYPE	FOR PUMP
Cav-80	RH80
Cav-100	RH100
Cav-150	RH150



Rovatti RH submersible pump mounted on +C galvanised steel base

GUIDE RAIL PIPE

Connect to Auto Coupling Foot (+P)

Supplied in 6 metre lengths

SIZE	TYPE OF PUMP
¾"	Hot Galv Welded
1½"	Hot Galv Welded
2"	Hot Galv Welded
¾"	AISI 304
1½"	AISI 304
2"	AISI 304

FIXING KIT FOR AUTO COUPLING FOOT

Small block expansion for pedestal and rail pipe bracket.

TYPE	FOR PUMP
DN65	RH
DN80	RH
DN100	RH
DN150	RH

JET

- Self-priming pump series
- Suitable for domestic installations, gardening, smallscale 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-JI

- Self-Priming pump series
- Compact pressure boosting system comprising Jetnox 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 a lifting water from tanks/river, 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



FOR PERFORMANCES AND PRICES SEE TABLE A

TABLE A	MOTOR KW	SUCTION DELIVERY	RATED AMPS	CAPACITOR UF	WEIGHT KG	M ³ /HR L/MIN	0 0	0.6 10	1.2 20	1.8 30	2.4 40	3 50	3.6 60	4.2 70
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	
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
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	
Jet 82M0.6	1" x 1"	3.8	12.5	10.7	m/hd	47	40	34	30	26.2	23.5	20.3		
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	
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	
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	
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

FOR PERFORMANCES AND PRICES SEE TABLE B

TABLE B	MOTOR KW	FREE PASSAGE	OUTLET SIZE	WEIGHT KG	M ³ /HR L/MIN	0 0	0.6 10	1.2 20	1.8 30	2.4 40	3 50	3.6 60	4.2 70	4.2 70
Nova 180MA	0.2	5mm	1 1/4"	4.6	m/hd	4.8	4.2	3.5	3.15	2.4	1.4			
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	
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
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
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
Nova "Salt" MA	0.3	5mm	1 1/4"	3.9	m/hd	7	6.5	5.9	5.4	5	4.3	3		
Divertron 1000M	0.9	-	1"	11	m/hd	36	33	27	23	20	13	1		
Divertron X1000M	0.9	-	1"	11	m/hd	36	33	27	23	20	13	1		
Divertron 1200M	1.1	-	1"	11	m/hd	48	42	34	29	24	15	1		
Divertron X1200M	1.1	-	1"	11	m/hd	48	42	34	29	24	15	1		

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

PUMP ACCESSORIES

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.
6 bar rated 12 bar rated	DABP506 DABP512

TYPE	LITRES	MAX BAR RATING	HEIGHT (MM)	WIDTH (MM)	CONNECTION	TEMP RANGE	WEIGHT (KG)
Vertical	2	10	240	125	1/2"	-10 to +99°C	1
Vertical	8	8	330	200	3/4"	-10 to +99°C	3
Vertical	20	8	492	250	1"	-10 to +99°C	6
Vertical	60	8	845	382	1"	-10 to +99°C	17
Vertical	100	10	950	450	1"	-10 to +99°C	25
Vertical	200	10	1255	550	1 1/2"	-10 to +99°C	46
Vertical	300	10	1405	630	1 1/2"	-10 to +99°C	59
Vertical	500	10	1550	780	1 1/2"	-10 to +99°C	114
Vertical	750	10	1940	780	1 1/2"	-10 to +99°C	162
Vertical	1000	10	1970	930	2"	-10 to +99°C	214
Horizontal	20	8	290	492	3/4"	-10 to +99°C	6.3
Horizontal	60	8	382	680	1"	-10 to +99°C	15
Horizontal	100	10	450	780	1"	-10 to +99°C	25
Horizontal	200	10	550	1030	1 1/2"	-10 to +99°C	46
Horizontal	300	10	630	1185	1 1/2"	-10 to +99°C	60

LIFTY (QAR1-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 56.

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 56.

FLOAT SWITCHES



"Bip Stop" Float Level Switch c/w 3-core 1mm² 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.

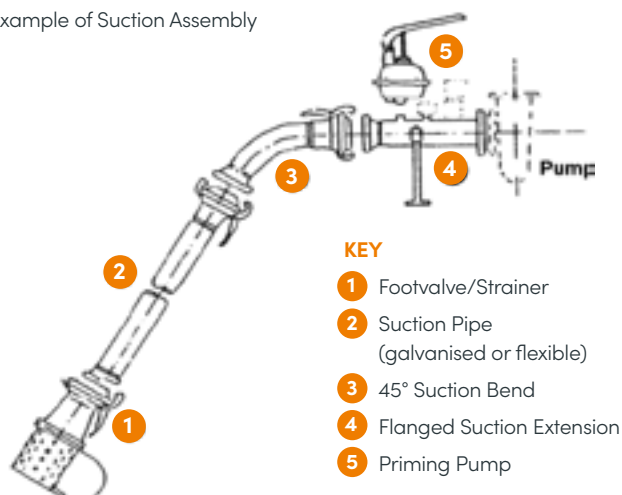
CABLE LENGTH	PART NO.
1 metre	ATMI 01 MTR
10 metre	ATMI 10 MTR
Ballast Weight 175g	ATMI BW175

10m float supplied as standard with weight

SUCTION & DELIVERY EQUIPMENT

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.

For individual prices on Suction items please call or email us.

FOOTVALVE



Footvalve 76mm (3")
Footvalve 108mm (4")
Footvalve 133mm (5")
Footvalve 159mm (6")
Footvalve 194mm (8")

M652076
M652108
M652133
M652159
M652194

WICKER STRAINER BASKETS

Wicker basket strainers for use with Bauer type footvalves. (Please call)



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	
Up to & including 4"	Medium	AU00001
For sizes 5" and over	Large	AU00002

SUCTION PIPE (RIGID), GALVANISED STEEL



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

SUCTION PIPE (FLEXIBLE)

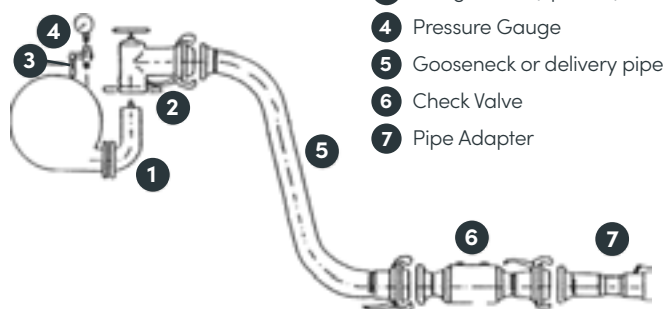


3" flexible hose, medium duty	J555300
4" flexible hose, medium duty	J555400
5" flexible hose, heavy duty	J555500
6" flexible hose, heavy duty	J555600
8" flexible hose, heavy duty	J555800

Flexible suction hose can be supplied in lengths as required, specifications on Page 38. For Bauer male and female hosetail couplers and clips, see Pages 26-27 and 38.

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.

Prices for individual Delivery items are shown on the following page.



RUBBER FLANGE GASKETS (FULL FACE)

See sizes and prices on page 54.

45° SUCTION BEND (GALVANISED)



Bauer bend 45° x 76mm M/F cplr	M610076
Bauer bend 45° x 108mm M/F cplr	M610108
Bauer bend 45° x 133mm M/F cplr	M610133
Bauer bend 45° x 159mm M/F cplr	M610159
Bauer bend 45° x 194mm M/F cplr	M610194

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.



DN50 Flg x 76mm (3") Bauer female
DN65 Flg x 108mm (4") Bauer female
DN80 Flg x 108mm (4") Bauer female
DN80 Flg x 133mm (5") Bauer female
DN80 Flg x 159mm (6") Bauer female
DN100 Flg x 108mm (4") Bauer female
DN100 Flg x 133mm (5") Bauer female
DN100 Flg x 159mm (6") Bauer female
DN125 Flg x 133mm (5") Bauer female
DN125 Flg x 159mm (6") Bauer female

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**

PRIMING PUMP (ROVATTI)



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

NUTS, BOLTS AND WASHERS

Nuts, Bolts & Washers M16 x 60mm	-
Nuts, Bolts & Washers M16 x 75mm	-

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



DN50 Flg x Bend & Hydrant 3"
DN65 Flg x Bend & Hydrant 3"
DN50 Flg x Bend & Hydrant 4"
DN65 Flg x Bend & Hydrant 4"
DN80 Flg x Bend & Hydrant 4"
DN65 Flg x Bend & Hydrant 5"
DN80 Flg x Bend & Hydrant 5"

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

FLANGED VALVE HYDRANT - JAVELIN TYPE



DN50 Flg x Hydrant 3" FMLD
DN65 Flg x Hydrant 4" FMLD
DN80 Flg x Hydrant 3" FMLD
DN80 Flg x Hydrant 4" FMLD
DN100 Flg x Hydrant 4" FMLD
DN100 Flg x Hydrant 5" FMLD
DN125 Flg x Hydrant 5" FMLD

FLANGED VALVE HYDRANT - WRIGHT RAIN TYPE



DN50 Flg x Hydrant 3" RW
DN65 Flg x Hydrant 3" RW
DN65 Flg x Hydrant 4" RW
DN80 Flg x Hydrant 3" RW
DN80 Flg x Hydrant 4" RW
DN100 Flg x Hydrant 4" RW
DN100 Flg x Hydrant 5" RW
DN125 Flg x Hydrant 5" RW

VALVE ELBOW



Vlv Elb 3" / FMLD3" **AFJ84119**
Vlv Elb 4" / FMLD4" **AFP96889**
Vlv Elb 5" / FMLD4" **AFK14867**
Vlv Elb 5" / FMLD5" **AFZ78380**
Vlv Elb 4" / LCM 108mm **AFH40073**
Vlv Elb 4" / RW4" **CRW200044**
Vlv Elb 4" / RW5" **CRW200045**
Vlv Elb 5" / RW5" **CRW20005**

GAUGE COCK (OPTIONAL)



1/4 turn mini lever ball valve x 1/4" M/F
1/4 turn mini lever ball valve x 1/2" M/F

BVM008
BVM015

PRESSURE GAUGE



0-16 bar, 1/4" male BSP
0-10 bar, 1/4" male BSP

MPW19454
QG370610

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)



50mm
65mm
80mm
100mm
125mm
150mm
200mm

FLG050FF
FLG065FF
FLG080FF
FLG100FF
FLG125FF
FLG150FF
FLG200FF

NUTS, BOLTS & WASHERS

Size M16 x 60mm
Size M20 x 75mm

FLANGE SIZE

Up to 100mm
Over 100mm

QTY REQUIRED

4 sets
8 sets

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
2"	5 bar	15 bar	Green	J555200	60 - 63mm
3"	4 bar	12 bar	Green	J555300	86 - 91mm
4"	3 bar	9 bar	Green	J555400	113 - 121mm
5"	5 bar	15 bar	Grey	J555500	140 - 148mm
6"	4 bar	12 bar	Grey	J555600	162 - 174mm
8"	Information and prices on request				

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
2"	20 bar	O/Flex 20	Yellow	DH17520	56 - 59mm
3"	17 bar	O/Flex 20	Yellow	DH17530	80 - 85mm
3 1/2"	15 bar	O/Flex 80	Black	DH17535	92 - 97mm
4"	15 bar	O/Flex 20	Yellow	DH17540	104 - 112mm
5"	15 bar	O/Flex 20	Yellow	DH17550	131 - 139mm
6"	15 bar	O/Flex 20	Yellow	DH17560	162 - 174mm

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	HOSE TYPE	HOSE COLOUR	CLIP SIZES	PART NO.
1/2"	9 bar	25-50-100	Yellow	16 - 25mm	BFT012
3/4"	9 bar	25-50-100	Yellow	16 - 25mm	BFT019
1"	8 bar	25-50-100	Yellow	25 - 35mm	BFT025
1 1/4"	8 bar	25-50-100	Yellow	30 - 40mm	BFT030
1 1/2"	8 bar	25-50-100	Yellow	48 - 51mm	BFT040
2"	8 bar	25-50-100	Yellow	60 - 63mm	BFT050

HOSE CLIPS



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

16 - 25	TNC016025	80 - 85	MIK 080085
25 - 35	TNC025035	86 - 91	MIK 086091
30 - 40	TNC030040	92 - 97	MIK 092097
40 - 43	MIK 040043	97 - 104	MIK 097104
43 - 47	MIK 043047	104 - 112	MIK 104112
48 - 51	MIK 048051	113 - 121	MIK 113121
52 - 55	MIK 052055	122 - 130	MIK 122130
56 - 59	MIK 056059	131 - 139	MIK 131139
60 - 63	MIK 060063	140 - 148	MIK 140148
64 - 68	MIK 064068	149 - 161	MIK 149161
69 - 73	MIK 069073	162 - 174	MIK 162174
74 - 79	MIK 074079	213 - 226	MIK 213226

CHECK VALVE

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



Check Vlv LC M/F 76mm
Check Vlv LC M/F 108mm
Check Vlv LC M/F 133mm

AFH33426
AFG33494
AFL55256



MONITORING & CONTROL EQUIPMENT, ACCESSORIES

PAGE 56-62

- FLOAT SWITCHES
- 4-GROUP & DAB CONTROL/STARTER PANELS & VARIABLE SPEED DRIVES
- MURPHY ENGINE MONITORING EQUIPMENT AND ACCESSORIES

MONITORING & CONTROL EQUIPMENT

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±10%
- Power Input: 3-Phase 50-60Hz, 400v±10%
- 2 inputs for start command, float switches and/or pressure switches
- N.1 alarm output for maximum current, minimum cos ϕ , 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 ϕ 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 ϕ 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 1 (QAR1-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 ± 10%
- Power Input: 3-Phase 50-60Hz, 400v ± 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.
Domino-Up/M	1-Phase	0.5 - 3	0.37 - 2.2	230v ± 10%	2 - 16	310 x 230 x 180	1.5	MWR10115
Domino-Up/T-10	3-Phase	0.75 - 10	0.55 - 7.5	400v ± 10%	2 - 15	310 x 230 x 180	2.5	MWR10118
Domino-Up/T-15	3-Phase	10 - 15	7.5 - 11	400v ± 10%	16 - 24	310 x 230 x 180	3	MWR10119
Domino-Up/T-20	3-Phase	10 - 20	7.5 - 15	400v ± 10%	16 - 30	310 x 230 x 180	3.5	MWR10120

PANEL	ELECTRIC	HP	KW	VOLTAGE	MOTOR AMPS	H X W X D (MM)	WEIGHT KG	PART NO.
Lifty 1 M/3	1-Phase	0.5 - 3	0.37 - 2.2	230v ± 10%	2 - 16	310 x 230 x 180	1.5	MWR10120
Lifty 1 T/5.5	3-Phase	0.75 - 5.5	0.55 - 3.7	400v ± 10%	2 - 8	310 x 230 x 180	2	MWR10121
Lifty 1 T/7.5	3-Phase	0.75 - 7.5	0.55 - 5.5	400v ± 10%	2 - 11	310 x 230 x 180	2	MWR10122
Lifty 1 T/10	3-Phase	0.75 - 10	0.55 - 7.5	400v ± 10%	2 - 15	310 x 230 x 180	2.5	MWR10123
Lifty 1 T/15	3-Phase	10 - 15	7.5 - 11	400v ± 10%	16 - 24	310 x 230 x 180	3	MWR10124

FLASHING/ACOUSTIC ALARM



- Visual and acoustic alarm
- 12, 24, 240v input
- Alarm rated 90dB @1metre
- 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.
LS1-12	12	160 x 160 x 140	0.5	MWR10094
LS1-24	24	160 x 160 x 140	0.5	MWR10095
LS1-220	220	160 x 160 x 140	0.5	MWR10096

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.



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 ϕ 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 1 - 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.



TECHNICAL FEATURES - EASY INVERTER 1

- 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 ϕ 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

DAB INVERTERS

DAB MCE/P INVERTER



The MCE/P is the leading edge of the Dab Inverters family and are designed for professional applications. These units are ideal for use with the Rovatti MEKV pump series up to 15 kW and offer a comprehensive array of pump and motor protection.

MCE/P inverters are air cooled by being mounted on top of the pump and are equipped with pressure sensors (not included) and the optional flow sensors as required.

The MCE/P can easily be set up in booster sets, thanks to a standard wire cable connection.

MODEL	NOMINAL MOTOR POWER	MAX CURRENT	MIN CURRENT	INPUT VOLTAGE	OUTPUT VOLTAGE	MOTOR FRAME
MCE/P11	1.1 kW	6.5A	1.0A	1~ x 230v	3~ x 230v	71/80
MCE/P15	1.5 kW	8.0A	1.0A	1~ x 230v	3~ x 230v	90
MCE/P22	2.2 kW	10.5A	1.0A	1~ x 230v	3~ x 230v	90/100
MCE/P30	3 kW	7.5A	2.0A	3~ x 400v	3~ x 400v	100
MCE/P55	5.5 kW	13.5A	2.0A	3~ x 400v	3~ x 400v	112/132
MCE/P110	11.0 kW	24A	2.0A	3~ x 400v	3~ x 400v	132/160
MCE/P150	15.0 kW	32A	2.0A	3~ x 400v	3~ x 400v	160

PRESSURE SENSORS (REQUIRED)

25 BAR PRESSURE SENSOR COMPLETE WITH 2 METRE CABLE
25 BAR PRESSURE SENSOR COMPLETE WITH 4 METRE CABLE

DAB ACTIVE DRIVER PLUS

Active Driver Plus inverters are used for in-line pump control and protection allowing for compact and easy installation.

The LED display offers a very simple and intuitive graphic interface.

Displaying or changing any parameters is easy, which in turn also simplifies maintenance.

They are extremely versatile; they do not require external sensors and nonreturn valves as these are built in, along with an internal flow sensor. This unit offers pump and motor protection for conditions such as dry running, over amperage and much more.



MODEL	MAX NOMINAL MOTOR POWER	MAX CURRENT	INPUT VOLTAGE	OUTPUT VOLTAGE	PRESSURE REGULATION
Active Driver Plus M/M 1.1	1.1 kW	8.5A	1~x230v	1~x230v	1-9 Bar
Active Driver Plus M/M 1.5	1.5 kW	11A	1~x230v	1~x230v	1-9 Bar
Active Driver Plus M/M 1.8	1.8 kW	14A	1~x230v	1~x230v	1-9 Bar
Active Driver Plus M/T 1	1 kW	4.7A	1~x230v	3~x230v	1-9 Bar
Active Driver Plus M/T 2.2	2.2 kW	10.5A	1~x230v	3~x230v	1-13 Bar
Active Driver Plus T/T 3	3 kW	7.5A	3~x400v	3~x400v	1-13 Bar
Active Driver Plus T/T 5.5	5.5 kW	13.3A	3~x400v	3~x400v	1-13 Bar

ZONE CONTROLLERS AND ACCESSORIES

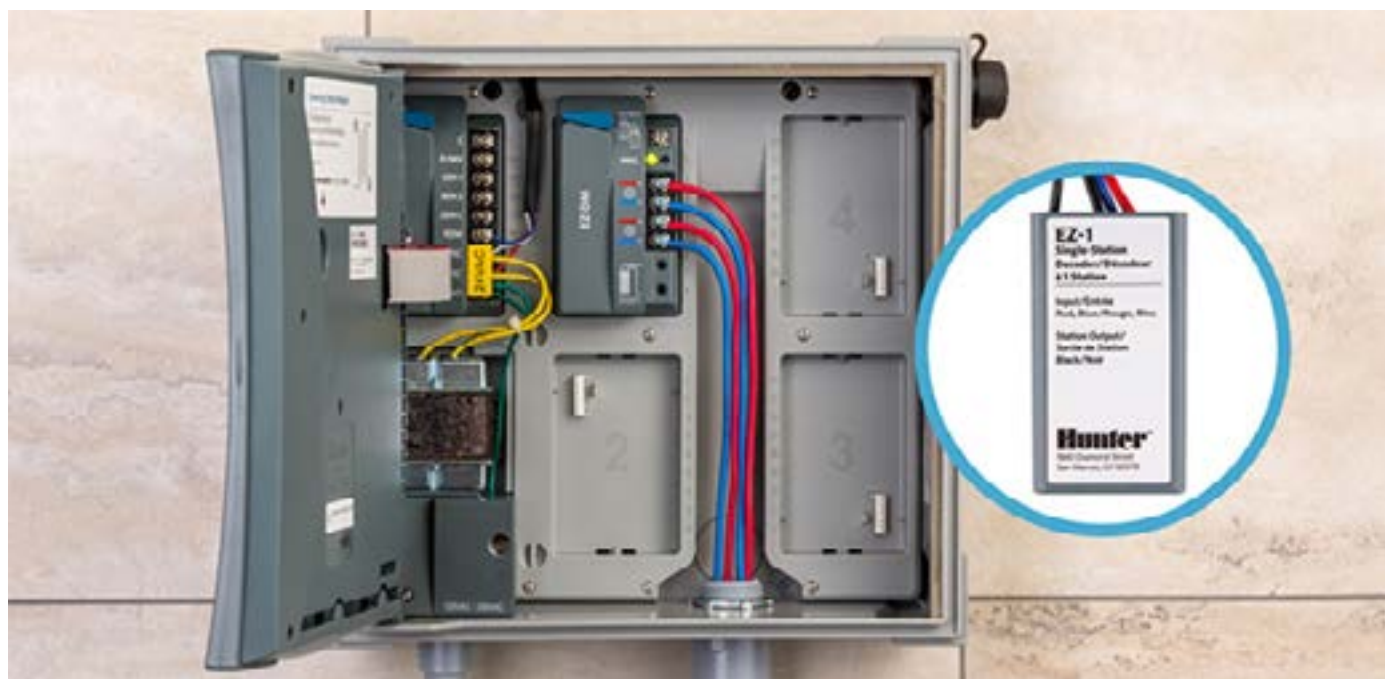
ICC2 CONTROLLER



The Hunter ICC2, 8 station base controller can be used in the traditional multi-wire to solenoid valve fashion with up to 38 stations with expansion modules, or up to 54 stations if used in conjunction with the two-wire EZDM decoder module on a single pair of wires. With 4 independent irrigation programmes and 8 start times each, it will allow for customised scheduling.

EZDM DECODER MODULE & DECODERS

The two-wire decoder System for ICC2 controller is plugged into the inside of the ICC2 controller. The decoders themselves are assigned station numbers by physically plugging into the ports on the decoder module before installation. Once installed and connected to the solenoid valve, the decoder will activate the solenoid valve as programmed into the ICC2 controller.



PART NO.	DESCRIPTION
HCIC2800PL	ICC2 8 Station Base Controller
HCIC2ICM400	4 Station Expansion Module
HCIC2ICM800	8 Station Expansion Module
HCIC2ICM2200	22 Station Expansion Module
HCEZDM	Decoder Module (EZ-DM)
HCEZ1	1 Station Decoder (EZ-1)
HPSR52	230v AC Pump Start Relay for ICC2 Controller
31A08021	2 Core 8mm ² x 100m Coil Low Voltage Cable
31A08025	2 Core 8mm ² x 500m Coil Low Voltage Cable
3ICB2A01	Medium Grease Filled Connectors (Orange)

ZONE CONTROLLERS AND ACCESSORIES

ICV SOLENOID VALVE



The ICV solenoid valve is designed to handle a wide range of conditions that different sites may bring. It includes both a fabric reinforced EPDM diaphragm and seat, and flow control as standard features. It can consistently withstand pressures of up to 15 bar while handling the continual hammer that such forces will produce. Plus, it is exceptionally easy to service, with bonnet bolts that can be loosened and tightened using a variety of common contractor tools.

Flow range between 0.05 – 68 m³/hour

370mA inrush, 210mA Holding @ 50Hz

PART NO.	DESCRIPTION	FLOW RANGE (M ³ /HR)
SVC10025	1" F/F BSP Solenoid Valve 24v AC	0.05 – 9
SVC10040	1 ½" F/F BSP Solenoid Valve 24v AC	0.05 – 34
SVC10050	2" F/F BSP Solenoid Valve 24v AC	0.05 – 45
SVC10075	3" F/F BSP Solenoid Valve 24v AC	0.05 – 68

VALVE BOXES

Valve boxes are available in tapered circular or rectangular forms for the protection and concealment of valves buried beneath the surface. With a removable lid for easy access to the valve for maintenance or replacement.

Pictured is a 12" Standard Valve Box.

PART NO.	DESCRIPTION	BASE (MM)	TOP (MM)	HEIGHT (MM)
TIC100106	Economy	200 Diameter	160 Diameter	230
TIC100110	10" Circular	320 Diameter	225 Diameter	250
TIC100112	12" Standard	380 x 496	273 x 405	300
TIC100150	Jumbo	500 x 640	370 x 520	300



HUNTER I25 COMMERCIAL ROTOR



The Hunter I25 commercial rotor is the go-to pop-up sprinkler for small to medium applications. With a variety of nozzles (Supplied) These sprinklers have a range of 11.9 to 21.6 metres, depending on flow and pressure.

PART NO.	DESCRIPTION
HSI25-04	4" Pop-up with Plastic Riser*
HSI25-06	6" Pop-up with Plastic Riser*

*Stainless steel riser option available – Please ask for details

PRESSURE, TEMPERATURE SWITCHGAUGES & ACCESSORIES



1 OPLFC Pressure Gauge (Above Left)

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

2 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.
0-300 psi Switchgauge 4½"	OPLFC	EPM300020
Wall Bracket for OPLFC	MM324	EP301800
0-300 psi Switchgauge	OPLC-DPCO	EPM600040
0-100 psi Switchgauge 2"	20P	EPM300010
0-200 psi Switchgauge 2"	20PHLK	EPM300030
0-300 psi Switchgauge 2"	20PHLK	EPM300040
0-14 bar Switchgauge 2½"	A25PHLK	EPM300050
Water/Oil Temp Gauge	20T	EPM400010
Pulsation Damper	PD8183	EPM600080
Throttle Controller (Dual Voltage)	AT03069	EPM600030

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)

RP2309B 1½" (38mm) stroke

- 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.
Rack Puller 12v	RP75	EPM600010
Rack Puller Cable 1.2m	40.01.0034	EPM600070
RP Solenoid 12v DC	RP2309B	EPM600017
Fuel Solenoid 12v	SV12	EPM600020
Fuel Solenoid 24v	SV24	EPM600025
Replacement coil (SV12)	-	EPM600060

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.
12v Tattletale Relay	518APH	EPM600050
24v Tattletale Relay	518APH	EPM600055
Tattletale Relay	MS2110	EPM600058

TIMERS (MOVEMENT ONLY)



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

DESCRIPTION	MURPHY	PART NO.
24 hour Timer	24TM	EPM500010
15 minute Timer	15TM	EPM500030

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.
Pressure Relief Valve	PRV70	EPDRV070

EQUIPMENT FOR ENGINE PUMP UNITS		
Magnetic Pick-Up Speed Sensor	MP3298	EPM800000
Engine Oil Pressure Sender	ES2P100	EPM300060
Engine Temperature Sender	ES2TZ	EPM400020
Pressure Transducer 0-200 psi	PXT200	EPM700000

MONITORING & CONTROL EQUIPMENT

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

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 (OPLCDPCO) and tachometer

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

B4111 Panel

WD100 12V DIAGNOSTIC CENTRE



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

WD100 Panel

WD270 DIAGNOSTIC CENTRE



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

WD270 Panel

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

PAGE 64-65

- GALVANISED WATER STORAGE TANKS, LINERS, ROOF COVERS AND OUTLET CONNECTIONS
- PLASTIC WATER STORAGE TANKS (VERTICAL AND HORIZONTAL)

WATER STORAGE TANKS (STEEL)

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: 4.49m³ - 1,001m³ (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
TANK CAPACITY	GALLONS		
9.1	1,980	TK09/2	9' x 5'
13.5	3,000	TK09/3	9' x 7'6"
16	3,500	TK12/2	12' x 5'
18	3,950	TK09/4	9' x 10'
24	5,280	TK12/3	12' x 7'6"
25	5,500	TK15/2	15' x 5'
32	7,000	TK12/4	12' x 10'
36	7,920	TK18/2	18' x 5'
37.5	8,250	TK15/3	15' x 7'6"
49	10,700	TK21/2	21' x 5'
50	11,000	TK15/4	15' x 10'
54	11,800	TK18/3	18' x 7'6"
64	14,090	TK24/2	24' x 5'
72	15,800	TK18/4	18' x 10'

TANK CAPACITY		TANK PART NUMBER	DIAMETER X HEIGHT
TANK CAPACITY	GALLONS		
73.5	16,180	TK21/3	21' x 7'6"
96	21,130	TK24/3	24' x 7'6"
100	22,000	TK30/2	30' x 5'
128	28,180	TK24/4	24' x 10'
144	31,700	TK36/2	36' x 5'
150	33,000	TK30/3	30' x 7'6"
182	40,040	TK33/3	33' x 7'6"
200	44,000	TK30/4	30' x 10'
216	47,560	TK36/3	36' x 7'6"
253.5	55,822	TK39/4	39' x 10'
288	63,400	TK36/4	36' x 10'
295	64,900	TK42/3	42' x 7'6"
393	86,460	TK42/4	42' x 10'

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)	PART NO. (GREEN)	PART NO.	PART NO.	PART NO.
9'	TC09G	TC09G/CG	TC09M	TC09P	TC09F
12'	TC12G	TC12G/CG	TC12M	TC12P	TC12F
15'	TC15G	TC15G/CG	TC15M	TC15P	TC15F
18'	TC18G	TC18G/CG	TC18M*	TC18P	TC18F
21'	TC21G	TC21G/CG	TC21M*	TC21P	TC21F
24'	TC24G	TC24G/CG	TC24M*	TC24P	TC24F
30'	TC30G	TC30G/CG	TC30M*	-	TC30F**
33'	TC33G	TC33G/CG	TC33M*	-	TC33F**
36'	TC36G	TC36G/CG	TC36M*	-	TC36F**
39'	TC39G	TC39G/CG	TC39M*	-	TC39F**
42'	TC42G	TC42G/CG	TC42M*	-	TC42F**

* 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



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



STEEL OUTLET ASSEMBLIES	PART NO.
2" Outlet Assy (m/m)	TO11G
3" Outlet Assy (m/m)	TO13G
4" Outlet Assy (m/m)	TO14G



TANK ENCLOSURES

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 40.



- 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	WHITE	GREEN	GREY
1,250	275	1,200 x 1,200	1½"	172205-Bk	172205-Wh	172205-Gr	172205-Gy
2,500	550	1,400 x 1,800	1½"	172210-Bk	172210-Wh	172210-Gr	172210-Gy
4,000	880	1,900 x 1,600	2"	172212-Bk	172212-Wh	172212-Gr	172212-Gy
5,000	1,100	1,900 x 1,960	2"	172214-Bk	172214-Wh	172214-Gr	172214-Gy
5,500	1,210	2,600 x 1,350	2"	172215-Bk	172215-Wh	172215-Gr	172215-Gy
6,000	1,320	1,900 x 2,280	2"	172216-Bk	172215-Wh	172215-Gr	172215-Gy
7,000	1,540	2,400 x 1,820	2"	172217-Bk	172217-Wh	172217-Gr	172217-Gy
8,500	1,870	2,600 x 2,063	2"	172218-Bk	172218-Wh	172218-Gr	172218-Gy
10,000	2,200	2,440 x 2,560	2"	172222-Bk	172222-Wh	172222-Gr	172222-Gy
12,500	2,750	2,600 x 2,650	2"	172125-Bk	172125-Wh	172125-Gr	172125-Gy
16,800	3,696	2,600 x 3,350	2"	172130-Bk	172130-Wh	172130-Gr	172130-Gy
20,800	4,576	2,600 x 4,105	2"	172145-Bk	172145-Wh	172145-Gr	172145-Gy
25,000	5,500	2,700 x 4,650	2"	172140-Bk	172140-Wh	172140-Gr	172140-Gy



GREAT COMPANY TO DEAL WITH

Gavin Pell

ROVATTI PUMPS

PAGE 68-75

- COMPLETE RANGE OF ROVATTI CENTRIFUGAL PUMPS

BOREHOLE PUMPS

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 m³/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 m³/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 m³/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 m³/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 m³/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 m³/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

SURFACE ELECTRIC PUMPS

VERTICAL MULTI-STAGE ELECTRIC PUMPS



MEKVC

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

Q max
40 m³/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 m³/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 m³/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

SURFACE ELECTRIC PUMPS

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

ELECTRIC SUBMERSIBLE PUMP

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



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

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

SELF PRIMING PUMPS



SA - MEA - FLA

Range of centrifugal self-priming pumps in different configurations: Bareshaft, flanged for thermic engines and closecoupled 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

HYDRAULIC MOTOR DRIVEN PUMPS



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

INFORMATION

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
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
VOLUME		
Cubic Metre	Gallon (Imp)	220
Gallon (Imp)	Cubic Metre (m ³)	0.004545
Gallon (Imp)	Litre	4.546
Gallon (Imp)	Gallon (US)	1.2
LitreGallon (Imp)	0.220	
LitreCubic Metre (m ³)	0.001	
FLOW		
Gallon/minute (Imp)	m ³ /hr	0.273
Gallon/minute (US)	m ³ /hr	0.227
Gallon/minute (Imp)	ltr/min	4.546
Gallon/minute (Imp)	ltr/sec	0.0757
Gallon/hour (Imp)	m ³ /hr	0.00455
Gallon/hour (US)	m ³ /hr	0.038
m ³ /hrltr/min	16.67	
m ³ /hrltr/sec	0.278	
m ³ /hrgallon/min (Imp)	3.67	
ltr/secm ³ /hr	3.6	
ltr/minm ³ /hr	0.06	
l/mingallon/hour (Imp)	13.2	

CONVERSION FACTORS

FROM	TO	MULTIPLY BY
AREA		
AcresHectare	0.4047	
AcresSquare Metre	4046.7	
HectareSquare Metre	10,000	
HectareAcres	2.471	
Square Feet	Square Metre	0.0929
Square Metre	Square Feet	10.76
LENGTH		
Foot	Inch	12
Foot	Metre	0.3048
Inch	Centimetre	2.54
Kilometre	Mile	0.62137
Mile	Kilometre	1.609
PRESSURE		
PSI	Bar	0.068
Bar	PSI	14.7
POWER		
kW	Hp	1.341
Hp	kW	0.7457

PIPE RESISTANCE CHART

FLOW L/MIN	PIPE 1/2"	PIPE 3/4"	PIPE 1"	PIPE 1 1/4"	PIPE 1 1/2"	PIPE 2"	PIPE 2 1/2"	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 1.5MM ²	CABLE 2.5MM ²	CABLE 4MM ²	CABLE 6MM ²	CABLE 10MM ²	CABLE 16MM ²
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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JAVELIN

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