



FREE CARRIAGE
on orders over £250

Terms & Conditions Apply



OBART
PUMPING SOLUTIONS



PUMPS • WASHERS
ENVIRONMENT PROTECTION
FLOOD DEFENCE
HOSES & ACCESSORIES



CATALOGUE & PRICE LIST
No.12 - 2019

www.obartpumps.co.uk





Welcome to our brand new 2019 product catalogue. With new and updated pages, and new products added, this guide makes buying with Obart Pumps even easier.

We are committed to high quality, reliable and cost effective products, whilst minimising the environmental impact of our activities. With ISO accreditation, you can be sure we have the right values, processes and attitudes toward improving quality and service to our customers.

With our large 20,000 sq ft warehouse, high quality products and our excellent and knowledgeable sales department, this makes us the best choice for all of your pumping and accessory product needs.

Why Obart?

- Large stocks of high quality pumps and accessories
- Professional, helpful and knowledgeable staff
- Next day delivery*
- ISO 9001, 14001 and 18001 accreditations
- Excellent customer service
- 1-3 year warranty on all products
- Over 40 years' experience
- Large stock of spare parts

Welcome to the Obart Experience!

Matthew Hill

Managing Director

*Order by 4pm (excludes certain geographical areas)



Large stock holding



Excellent service and support



Spare parts backup



Servicing and repair



High quality delivery service

QUALITY ASSURED



ISO 9001



ISO 14001



BS OHSAS 18001



PROTECTING OUR ENVIRONMENT



Producer registration no: WEE/JH4179SR

QUALITY BRANDS



FOLLOW US





Obart Pumps Limited
Obart House, Liphook Way, 20/20 Business Park,
Maidstone, Kent. ME16 0FZ.
Tel: 01622 355000 Fax: 01622 355019



By Rail: Maidstone West or Maidstone East
Approximately 10 minutes taxi ride away



By Air: Gatwick Airport
Approximately 40 minutes by taxi



ORDERING FROM US

TELEPHONE

01622 355 000
Freephone 0800 092 4423
OPENING TIMES: Monday to Friday
8:00am to 5:30pm

FAX

01622 355019

EMAIL

sales@obartpumps.co.uk

WEB

www.obartpumps.co.uk

POST

Obart Pumps Ltd. Obart House, Liphook Way,
20/20 Business Park, Maidstone, Kent. ME16 0FZ

PAYMENT

Payment is required in full with cleared funds, in advance, unless a credit account facility has been arranged. An account facility is subject to status and is always at our discretion.

We accept the following credit or debit cards:



PRICES

Prices are effective from 1/1/19. We reserve the right to changes prices without prior notice. E&OE.
All prices are subject to VAT at 20%, or the rate effective at the time of invoice. All prices are in Sterling (£).
Euros (€) prices are available on request.

MINIMUM ORDER

For account customers, our minimum order charge is £20 net + carriage + VAT. There is not a minimum order charge when payment is made in advance, with cleared funds.

QUOTATION

We can give quotations for bulk purchases.

EXPORT

Export enquiries welcome.

CARRIAGE

Free of charge on orders over £250 (excluding VAT), for products listed in this catalogue, that are delivered to an address in England, Scotland and Wales. See page 6 for details. Carriage extra on orders below £250 (excluding VAT) and to Northern Ireland, Republic of Ireland, Channel Islands and other parts of Europe. Orders for stock items received by 4pm will be despatched the same day. Our carrier's terms and conditions apply. A copy is available on request.

COLLECTION

Goods can be collected from our warehouse between 8:30am and 5:00pm

SAME DAY DELIVERY

Delivery on the same day as the order, is possible, to most parts of the UK. Please ask for a quotation.

RECEIPT OF GOODS

Any shortages or damage must be reported to us in writing, within 3 days of receipt of goods. If we are unable to deliver to an address, because the consignee is unavailable, then we will charge £10 or an additional 50% of the carriage charge on the order, whatever is the greater, to re-deliver. We will charge the same amount each time we are unable to deliver the consignment.

RETURNS POLICY

Any unused goods that are returned to Obart Pumps Ltd for credit, as a result of the customer incorrectly ordering or no longer requiring them, will be subject to a 20% re-stocking charge. This will cover our costs for inspection, testing, re-packing and administration.

Any additional costs incurred to return the goods to an "as new" condition will incur additional charges. If we consider that the returned item is impossible to re-stock, due to the condition in which it was received, we will confirm this in writing with an option to scrap the unit or return it.

Goods for re-stocking must be returned by, and at the cost of, the customer. Packaging must be sufficient to ensure that the goods arrive undamaged. Goods are sent at the customer's risk and we are not responsible for goods getting lost or damaged in transit. Used goods, or any hose cut to order, cannot be returned for re-stocking.

WARRANTY

In the unlikely event that you need to claim warranty for a product's failure, please contact our sales department for details of the returns procedure.

SPECIFICATIONS

These can be changed or modified without prior notice. E&OE.

TERMS & CONDITIONS

All products are sold in accordance with our standard Terms and Conditions of Sale which are printed on page 7 of this catalogue and price list.

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CARRIAGE CHARGES

ORDERS OVER £250 (excluding VAT),
ORDERS UNDER £250 (excluding VAT),
ORDERS TO: Northern Ireland
Republic of Ireland
Channel Islands
other parts of Europe

FREE OF CHARGE to: England, Scotland & Wales
CARRIAGE EXTRA (see the table below for rates)
CARRIAGE EXTRA (see the table below for rates)
CARRIAGE EXTRA (see the table below for rates)
CARRIAGE EXTRA (see the table below for rates)
CARRIAGE EXTRA (see the table below for rates)

ORDERS FOR: products not listed in this catalogue
CARRIAGE EXTRA (see the table below for rates)
NB Some of our products are particularly bulky and/or delicate. To ensure that your product is delivered in perfect condition, we reserve the right to use a pallet and charge the pallet rate.
However, we will advise you before despatch.

(NB NEXT DAY CARRIAGE IS NOT GUARANTEED)

Location & service	Weight (kgs)	Next day	Next day AM	Next day 10.00AM	Saturday	Pallet (each) 2-5 day
UK postal service (next day not guaranteed)	up to 1 kg (Royal Mail-signed for)	£5.95	-	-	-	-
England (mainland - Zone 1)	1 - 29	£9	£16	£24	£24	-
	30 - 50	£15	£25	£36	£36	-
	51 - 100	£25	£35	£54	£54	£54
	101 - 150	£37	£47	£75	£75	£54
	151 - 200	£50	£63	£97	£97	£54
	201 - 300	£73	£99	£154	£154	£54
	301 - 500	£110	£147	£220	£220	£54
	500 - 1200	P.O.A.	P.O.A.	P.O.A.	P.O.A.	£54
Scotland (mainland - Zone 1) Post code coverage: AB (not AB36-38, AB55-56), D, DG, EH, FK (not FK17-21), G (not G83-84), KY, KA (not KA27-28), ML, PA1-PA19, PH1-PH18 & TD)	1 - 29	£9	£16	£24	£24	-
	30 - 50	£15	£25	£36	£36	-
	51 - 100	£25	£35	£54	£54	£70
	101 - 150	£37	£47	£75	£75	£70
	151 - 200	£50	£63	£97	£97	£70
	201 - 300	£97	£126	£179	£179	£70
	301 - 500	£136	£174	£245	£245	£70
	500 - 1200	P.O.A.	P.O.A.	P.O.A.	P.O.A.	£70
Isle of Wight (Zone 1)	1 - 3	£16	£24	£31	£31	-
	4 - 25	£18	£28	£38	£38	-
	26 - 50	£21	£31	£43	£43	-
	51 - 100	£31	£41	£60	£60	£75
	101 - 150	£43	£53	£82	£82	£75
	151 - 200	£57	£69	£104	£104	£75
	201 - 300	£80	£109	£161	£161	£75
	301 - 500	£118	£156	£227	£227	£75
Scotland* (2 to 5 day service) (Highlands - Zone 2) Post code coverage: AB36-38, AB55-56, K17-21, G83-84, IV1-39, IV52-54, IV63, KW1-14, PA21-40, PH19-26, PH30-41, PH49-50, PH60	1 - 25	£33	-	-	-	-
	26 - 50	£39	-	-	-	-
	51 - 100	£55	-	-	-	£95
	101 - 150	£77	-	-	-	£95
	151 - 200	£99	-	-	-	£95
	201 - 300	£154	-	-	-	£95
	301 - 500	£242	-	-	-	£95
	500 - 1200	P.O.A.	-	-	-	£95
Scottish Islands * (2 to 5 day service) (Zone 3) (i.e. post codes not listed in Zone 1 and Zone 2) Isle of Man, Channel Islands (Zone 6)	1 - 20	£62	-	-	-	-
	21 - 50	£72	-	-	-	-
	51 - 100	£98	-	-	-	P.O.A.
	101 - 150	P.O.A.	-	-	-	P.O.A.
	151 - 200	P.O.A.	-	-	-	P.O.A.
	201 - 300	P.O.A.	-	-	-	P.O.A.
	301 - 500	P.O.A.	-	-	-	P.O.A.
	500 - 1200	P.O.A.	-	-	-	P.O.A.
Northern Ireland (Zone 4) (2-5 day service)	1 - 3	£18	£25	-	£31	-
	4 - 20	£37	£55	-	£60	-
	21 - 50	£48	£77	-	£87	-
	51 - 100	£77	£117	-	£139	£90
	101 - 150	£106	P.O.A.	-	P.O.A.	£90
	151 -200	£139	P.O.A.	-	P.O.A.	£90
	201 - 300	£205	P.O.A.	-	P.O.A.	£90
	301 - 500	£321	P.O.A.	-	P.O.A.	£90
Republic of Ireland (Zone 5) (2-5 day service)	500 - 1200	P.O.A.	P.O.A.	-	P.O.A.	£90
	1 - 3	£18	£25	-	£31	-
	4 - 20	£37	£55	-	£60	-
	21 - 50	£48	£77	-	£87	-
	51 - 100	£77	£117	-	£139	£105
	101 - 150	£106	P.O.A.	-	P.O.A.	£105
	151 -200	£139	P.O.A.	-	P.O.A.	£105
	201 - 300	£205	P.O.A.	-	P.O.A.	£105
Republic of Ireland (Zone 5) (2-5 day service)	301 - 500	£321	P.O.A.	-	P.O.A.	£105
	500 - 1200	P.O.A.	P.O.A.	-	P.O.A.	£105

CONDITIONS OF SALE

The following terms and conditions (“the Conditions”) are the terms on which Obart Pumps Limited (“the Company”) sell their products and services and supersedes all other terms and conditions used by the Company. These conditions do not apply to the sale of our products through our website.

1. Buyer.
The person, firm, company, corporation or public authority shown on the invoice of the Company is “the Buyer”

2. Carrier.
The person, firm, company, corporation or public authority responsible for delivery of the Goods to the delivery address, including the Company when the Company delivers, shall hereafter be referred to as “the Carrier”

3. Goods.
The description and quantity of the Goods to be sold (“the Goods”) shall be as set out in the quotation provided by the Company to the Buyer (“the Quotation”)

4. Orders, price and payment.
4.1. The price (exclusive of VAT) for the goods (“the Price”) shall be the quoted price of the company.
4.2. Payment of the Price is due on order with cleared funds, or shall be made within 30 days of the date (“the due date”) of invoice for the goods, if a credit account has been approved by the Company.
4.3. If the price is not paid by the due date the Company reserves the right to charge interest and/or charge the debt recovery costs in accordance with the Late Payment (Interest & Penalties) Legislation 1998 (amended 2002). The Company may also withdraw a credit account if payment terms are exceeded.
4.4. Any cancellation of any order by the Buyer must be in writing, and agreed as cancelled also in writing by the Company. In case of any cancellation, the Buyer may be released from its obligations under the contact after payment of a sum for reasonable liquidated damages.

5. Delivery.
The Company, or their appointed carrier, shall deliver the Goods to the address of the Buyer and on the date as both are shown on the Quotation. The Company cannot guarantee the time of delivery.

6. Acceptance.
The Company must be advised verbally, and then in writing by recorded delivery, of any defects in the Goods as soon as they are discovered by the Buyer who shall be deemed to have accepted the Goods if they have not been rejected on or before the third day after delivery. The Buyer must detail any damage or shortages and then endorse the carrier’s delivery documentation. The Buyer shall not be entitled to reject the Goods in whole or in part after the expiry of the 3 day period. Should the goods be returned to the Company, written agreement from the Company is required and the Buyer is responsible for any restocking charge levied.

7. Title and risk.
The Goods shall be at the risk of the Buyer following delivery and, notwithstanding delivery, title in the Goods shall not pass to the Buyer until the Buyer has made payment of the sums owing to the Company failing which the Company shall have the right to repossess or otherwise recover the Goods. Until title passes the Buyer shall hold the Goods as bailee for the Company and shall store or mark them so that they can at all times be identified as Goods of the Company.

8. Limitation of liability.
8.1. Save in respect of personal injury or death due to any negligence, the Company shall not be liable to the Buyer in respect of any loss suffered by the Buyer due to defect in the Goods
8.2. Without prejudice to Condition 6.1 the Company shall not be liable to the Buyer or any third party for any loss of profit, consequential or other economic loss suffered by the Buyer arising in any way from this agreement.

9. Force majeure.
The Company shall not be liable for any default due to any circumstance beyond the reasonable control of the Company including, but not limited to, acts of God, war, civil unrest, riot, strike, lock-out, acts of civil or military authorities, fire, flood, earthquake or shortage of supply.

10. General
10.1. If any term or provision of these Conditions is held invalid, illegal or unenforceable for any reason by any Court of competent jurisdiction, such provision shall be severed and the remainder of the provisions hereof shall continue in full force and effect as if these Conditions had been agreed with the invalid, illegal or unenforceable provision eliminated.
10.2. The Company may without consent of the Buyer sub-licence its rights or obligations or any part of these Conditions.
10.3. The headings in these Conditions are for ease of reference only and shall not affect the interpretation of any of the Conditions.

11. Contract.
Notwithstanding any other provision of this agreement, nothing herein shall confer or is intended to confer a benefit on any third party for the purpose of the Contract (Rights of Third Parties) Act 1999 or for any other purpose.

12. Entire agreement
Each of the parties agrees that save in respect of statements made fraudulently it shall have no remedy in respect of any untrue statement upon which it relied in entering this Agreement and that its only remedies shall be for breach of contract.

13. Governing law and jurisdiction.
The laws of England and Wales shall govern this agreement and the parties hereby submit to the non-exclusive jurisdiction of the courts of England and Wales.

WARRANTY TERMS AND CONDITIONS

Equipment supplied by the Company is covered by the following Terms and Condition, and includes goods imported by the Company, goods purchased by the Company, and any other goods covered by a separate Manufacturers Guarantee.

1. Tsurumi submersible pumps: warranty is a period of three years from the date of purchase from the Company.

2. APP and Speroni pumps: warranty is a period of two years from the date of purchase from the Company.
These warranties cover failure of equipment due to faulty components or assembly. Warranty covers parts and labour, only, and excludes any carriage charges. Fair wear and tear and misuse are excluded from any warranty. The Company reserve all rights regarding the validity of any claim.

3. Products other than pumps in 1 and 2 (above): warranty is offered for a period of one year from date of purchase from the Company and covers failure of equipment due to faulty components or assembly. Warranty covers parts and labour, only, and excludes any carriage charges. Fair wear and tear and misuse are excluded from any warranty. N.B. the warranty period offered by a manufacturer may differ from that offered by the Company, however in all instances one year from date of purchase is given. The Company reserve all rights regarding the validity of any claim.

4. The Company are responsible for any Goods sold by them which were obtained in the U.K. However, the Company will return such goods to their supplier and will undertake to report to their customer within a reasonable period. Any warranty allowance offered by the supplier will be passed on to the Customer. Carriage charges, to the Company’s works, and fair wear and tear are excluded from warranty cover.

N.B. Customers shall not attempt any repair or adaptation to any equipment during the warranty period, or use the equipment for any purpose other than for which it was designed. Any such interference or misuse will negate any claim for warranty.

STATEMENT OF COPYRIGHT

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WIDER RANGE

MORE CHOICE



SXS

304 stainless steel submersibles with big solids passage and horizontal outlet. Addition to the [Mizar](#) range, an alternative to the 316 [Arvex](#), they are competitively priced.

14



SA(M)

316 stainless steel submersibles in 230 volts and 400 volts, with big solids, for seawater. Compact, small motors and with automatic options these compliment the [80SFQ](#) range.

66



Logicpress PLUS

The next size up in the [Logicpress](#) range of electronic pressure switches, for controlling 1 phase pumps with high flow rates up to 200 litres per minute.

80

Logicpress 3PHASE PLUS

3 phase pumps can now be controlled directly using [Logicpress](#) technology and convenience. With reverse rotation protection and flow rates up to 200 litres per minute.



80

FL40

A 24 volts (DC) version of the [FL](#) demand pumps for automatic on/off, addition to the [FL-40 12V\(DC\)](#), [FL-41 110V](#) and [FL-43 230V](#).



83

KS1100/PA

A surface pump designed specifically for pumping seawater with a realistic price tag. Performance and size is similar to the [KS801](#).



89



DW50

Petrol and diesel driven centrifugal pumps with high quality engines and are lower cost alternatives to the traditional [Honda](#), [Subaru-Robin](#) and [Yanmar](#) engines.



133



FL-5

A range of Adblue pumps with a 110 volt model, in addition to 12V(DC), 24V(DC) and 230V... all at a very realistic price.

145

PVC PIPE & FITTINGS

A range of PVC pressure pipe, sockets, nipples, T-pieces, elbows etc, from 1" to 3", for drainage.



178



FREE CARRIAGE ON ALL ORDERS OVER £250

Terms and conditions apply



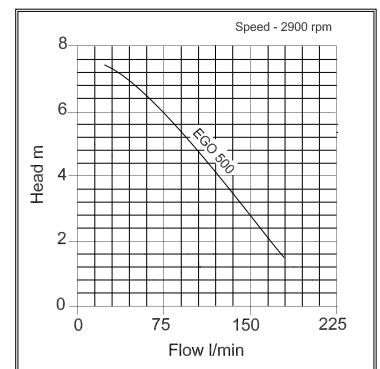
EGO 500

DUAL CONTROL SWITCH

The EGO 500 is a submersible pump for use in narrow pits and sumps, which may be shallow or contain low levels of water. It features dual control, which lets the internal float switch to be switched to "on" or "off" by the user, to enable automatic level control or for manual drainage. When used for manual drainage it can pump water levels down to 10mm from a priming depth of only 30mm. The float switch chamber can be easily accessed for cleaning. Constructed in thermoplastic, with a 304 stainless steel motor casing, it has a triple lip seal for wear resistance and is for pumping clean water. With a top outlet design, it has excellent cooling of the motor enabling the pump to work even when it is partially submerged. This pump offers great performance and reliability in domestic and light industrial applications but it not recommended for ponds or water features. Supplied with 10 metres of heavy duty power cable.



- Domestic
- Industry
- Lift shafts
- Basements
- Tanks
- Shallow sumps



EGO 500

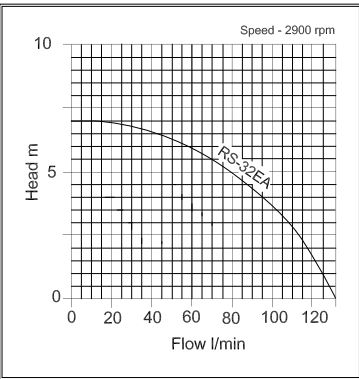
item code	model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	on level (mm)	off level (mm)	dry weight (kgs)	Price (£)	code
12-10-1008	EGO 500	Both	25	0.47	230	170	7.5	9	168x206x280	115	60	3.60	142.00	4

RS32EA



SHALLOW WATER CONTROL

- Industry
- Domestic
- Lift shafts
- Basements
- Tanks
- Narrow sumps



The RS32EA is a compact, automatic submersible pump with a miniature float-switch designed to control very shallow water levels. To block obstructions, the mechanism is housed within a chamber to ensure unhindered operation, consequently, this pump is also suitable for sumps with limited space. With the added feature of a narrow operating range (on at 50mm - off at 25mm) it is particularly suited to flat or awkward areas where there is not a sump e.g. lift shafts, concrete channels, pre-formed vessels etc. Constructed in thermoplastic, the RS32EA is designed for clean water. The stainless steel shaft is fitted with a carbon/ceramic mechanical seal, an intermediate oil chamber and inner lip seal. For increased reliability, it is fitted with an anti-airlock device. This model offers excellent reliability in domestic, trade and industrial applications, where high quality of construction at a low price is required. Supplied with 10 metres of heavy duty rubber power cable.



RS32EA

item code	model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	on level (mm)	off level (mm)	dry weight (kgs)	Price (£)	code
15-10-1026	RS32EA	A	32	0.13	230	130	7.5	9	160x170x295	50	25	3.90	127.00	4



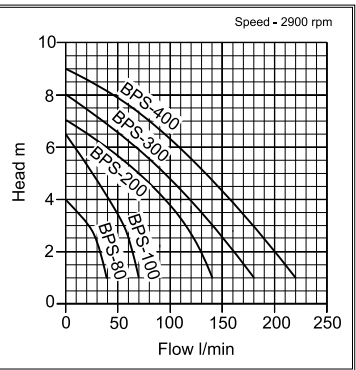
BPS

LIGHT DUTY

- Domestic
- Industry
- Cellars
- Basements
- Transfer
- Final effluent



The BPS series, in thermoplastic, is designed for clean and slightly dirty water. The top discharge design makes them suitable for partial immersion applications and where space or access is restricted. BPS-80, BPS-100 and BPS-200 have 304 stainless steel shafts while the BPS-300 and BPS-400 models feature 410 stainless steel shafts. Each model is fitted with a carbon/ceramic mechanical seal, in an intermediate oil chamber, with an inner lip seal. This construction offers good wear resistance and protection in the event of short periods of dry running. Manual versions of models BPS-80 and BPS-100 are fitted with residue strainers which enables the pumping of water down to 3mm. The BPS-100A(V) automatic model incorporates a tube type float switch for narrow sump applications, which will turn on at 184mm and off at 100mm. This range offers excellent reliability in domestic, trade and industrial applications, where high quality of construction at a low price is required. They are not, however, recommended for ponds or water features. Supplied with 10 metres of heavy duty rubber power cable.



item code	model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	solids (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
15-10-1096	BPS-80	M	19	0.08	230	40	4	2	136x136x255	1.95	61.00	4
15-10-1073	BPS-80A	A	19	0.08	230	40	4	2	136x136x255	2.20	74.00	4
15-10-1008	BPS-100	M	19 & 25	0.10	110	70	6.5	3	134x155x250	2.50	66.00	4
15-10-1095	BPS-100	M	19 & 25	0.10	230	70	6.5	3	134x155x250	2.50	66.00	4
15-10-1076	BPS-100A	A	19 & 25	0.10	110	70	6.5	3	134x155x250	2.70	81.00	4
15-10-1105	BPS-100A	A	19 & 25	0.10	230	70	6.5	3	134x155x250	2.70	81.00	4
15-10-1019	BPS-100V	A(V)	19 & 25	0.10	230	70	6.5	3	134x225x250	2.85	110.00	4
15-10-1090	BPS-200	M	32	0.20	230	140	7	5	134x155x290	3.65	87.00	4
15-10-1093	BPS-200A	A	32	0.20	230	140	7	5	134x155x290	3.85	103.00	4
15-10-1064	BPS-300	M	40	0.30	110	180	8	5	160x200x365	6.30	157.00	4
15-10-1013	BPS-300	M	40	0.30	230	180	8	5	160x200x365	6.30	157.00	4
15-10-1030	BPS-300A	A	40	0.30	110	180	8	5	160x200x365	6.50	177.00	4
15-10-1056	BPS-300A	A	40	0.30	230	180	8	5	160x200x365	6.50	177.00	4
15-10-1007	BPS-400	M	50	0.40	110	220	9	5	160x200x365	7.35	175.00	4
15-10-1047	BPS-400	M	50	0.40	230	220	9	5	160x200x365	7.35	175.00	4
15-10-1005	BPS-400A	A	50	0.40	110	220	9	5	160x200x365	7.50	195.00	4
15-10-1054	BPS-400A	A	50	0.40	230	220	9	5	160x200x365	7.50	195.00	4

MIZAR • MIZAR VOX • SXS



304 STAINLESS STEEL

- Industry
- Cellars
- Drainage
- Processing
- Final effluent
- Light sewage



The **Mizar** series, in corrosion resistant, 304 stainless steel, is designed for clean and dirty water, for use in domestic, trade and industrial applications. The **Mizar 30** and **Mizar 60** will handle suspended soft solids up to 10mm in diameter while the **Mizar Vox** will take up to 20mm in diameter. The top discharge design makes them suitable for partial immersion applications and where space or access is restricted. Maximum liquid temperature is 35°C fully submerged, 25° partially. The 416 stainless steel shaft is fitted with a hardwearing, silicon carbide, single mechanical seal (in an oil chamber), lip seal and a thermoplastic impeller (304 stainless on the **Mizar Vox**). The "D" shape handle design makes carrying easy and enables secure fixing with a rope for lifting. They will offer excellent service and consistent operation in challenging duties. They are not, however, recommended for ponds. Supplied with 10 metres of heavy duty rubber power cable.

The **SXS** pumps have vortex impellers with wide pump casings for pumping waste containing fibrous material and suspended soft solids up to 50mm. Constructed throughout in 304 stainless steel they have single mechanical seals (in an oil chamber) with NBR lip-seals. Horizontal outlet, removable stand, large free passage, large flow and good head, all at an economic price, make these pumps popular in domestic and commercial drainage applications. They are not recommended for ponds or water features. Supplied with 10 metres of heavy duty rubber power cable.



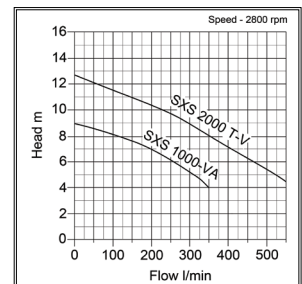
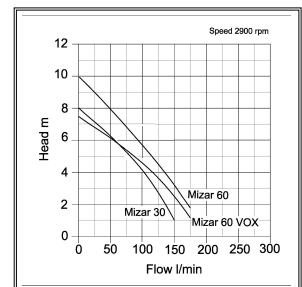
SXS 1000 auto



Mizar auto



Mizar VOX auto



item code	model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	dia x h (mm)	dry weight (kgs)	Price (£)	code
24-10-1017	Mizar 30	M	32	0.25	110	150	8	10	Ø154x234	4.90	223.00	4
24-10-1010	Mizar 30	M	32	0.25	230	150	8	10	Ø154x234	4.90	204.00	4
24-10-1004	Mizar 30	A	32	0.25	110	150	8	10	Ø154x234	5.20	236.00	4
24-10-1012	Mizar 30	A	32	0.25	230	150	8	10	Ø154x234	5.20	214.00	4
24-10-1013	Mizar 60	M	32	0.45	110	175	10	10	Ø154x234	5.60	236.00	4
24-10-1006	Mizar 60	M	32	0.45	230	175	10	10	Ø154x234	5.60	216.00	4
24-10-1016	Mizar 60	A	32	0.45	110	175	10	10	Ø154x234	5.80	250.00	4
24-10-1018	Mizar 60	A	32	0.45	230	175	10	10	Ø154x234	5.80	225.00	4
24-10-1015	Mizar VOX	M	32	0.45	110	175	7.5	20	Ø154x264	5.90	261.00	4
24-10-1011	Mizar VOX	M	32	0.45	230	175	7.5	20	Ø154x264	5.90	239.00	4
24-10-1008	Mizar VOX	A	32	0.45	110	175	7.5	20	Ø154x264	6.10	274.00	4
24-10-1001	Mizar VOX	A	32	0.45	230	175	7.5	20	Ø154x264	6.10	250.00	4
19-10-1003	SXS 1000 VA	A	2"	1.50	230	350	9	50	165x198x486	10.90	424.00	4
19-10-1001	SXS 2000 TV	M	2"	1.75	400	550	12.5	50	165x198x486	12.60	398.00	4

MIZAR/S • ARVEX/S

316 STAINLESS STEEL

The **Mizar 60/S** and **Arvex 150/S** are of 316 grade (1.4401) pressed stainless steel construction and offer increased corrosion resistance over the standard grade 304 (1.4301) usually found in mass produced pumps. **Mizar 60/S** impellers are in thermoplastic while the **Arvex 150/S** are in 316 grade (1.4401) stainless steel. For added resistance, these pumps have elastomers in Viton rubber and mechanical seals in silicon carbide. The **Mizar 60/S** will handle suspended soft solids up to 10mm in diameter while the **Arvex 150/S** will take up to 50mm in diameter. Although designed for use with light chemicals, these pumps are popular with users pumping less aggressive liquids, who wish to upgrade to a premium product containing components manufactured with the highest grade materials. Maximum liquid temperature is 50°C (25°C if the **Arvex 150/S** is partially submerged). They are not recommended for ponds. Supplied with 10 metres of PVC power cable.

The selection of a pump must initially meet the basic corrosion resistant standards, however additional mechanical or physical properties in the duty may also need to be considered to achieve the overall service performance required. Please contact our sales department for guidance before selection.

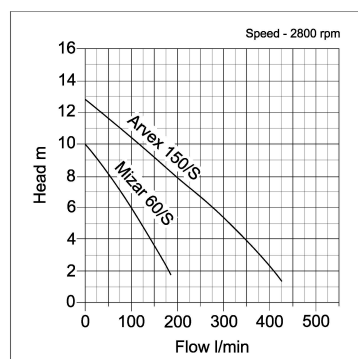
- Industry
- Light chemicals
- Cellars
- Process
- Transfer
- Final effluent



Mizar 60/S auto



Arvex 150/S auto



item code	model	Manual or Auto	outlet (FBSP)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
24-10-1003	Mizar 60/S	M	1½"	0.45	110	175	10	10	154x154x234	5.60	348.00	1
24-10-1005	Mizar 60/S	M	1½"	0.45	230	175	10	10	154x154x234	5.80	316.00	1
24-10-1009	Mizar 60/S	A	1½"	0.45	110	175	10	10	154x154x234	5.60	358.00	1
24-10-1007	Mizar 60/S	A	1½"	0.45	230	175	10	10	154x154x234	5.80	327.00	1
24-10-1014	Arvex 150/S	M	2"	1.10	230	425	13	50	214x180x358	12.20	611.00	1
24-10-1002	Arvex 150/S	M	2"	1.10	400	425	13	50	214x180x358	12.20	622.00	1
24-10-1000	Arvex 150/S	A	2"	1.10	230	425	13	50	214x180x358	12.40	622.00	1

OM3



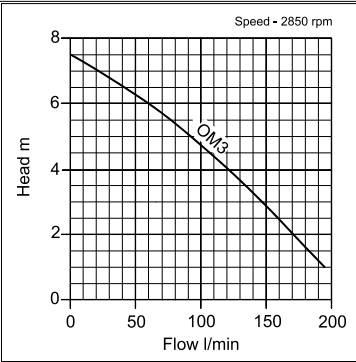
COMPACT FLOAT

- Industry
- Utilities
- Processing
- Cellars
- Basements
- Final effluent



The OM3 pump is a strong and efficient pump in 304 stainless steel and thermoplastic. Excellent flow and head are produced from an energy efficient 150-watt motor, which makes it ideal for many domestic and industrial jobs, particularly cellar and processing duties. It is not recommended for ponds or water features. It is popular with water companies, who select it for its advanced features and reliability. The close, compact positioning of the optional, integral tube float switch (OMA3), is particularly suited to applications where a sump is narrow or where a traditional pendant type float's operation could be fouled. Long term, trouble free operation is enhanced further with an integral vent valve to prevent air locking. The 403 stainless steel shaft is fitted with an ultra hardwearing, double mechanical seal (inboard: silicon carbide-silicon carbide) – running in an oil chamber - and a semi-vortex, thermoplastic impeller. Supplied with 10 metres of heavy duty, rubber power cable.

Users of 230volts have the option to select from two versions: the “domestic” is supplied with a hose tail and a hose clip (for fitting to flexible discharge hose) and a 3 pin plug fitted with a 5 amp fuse. The “industrial” is supplied with a female BSP outlet (for fitting rigid waste pipe) but without a plug. 110volt pumps are supplied as “industrial”.



item code	model	Manual or Auto	outlet (BSPF/mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	on level (mm)	off level (mm)	dry weight (kgs)	Price (£)	code
10-10-1201	OM3 industrial	M	1½"	0.15	110	195	7.5	10	140x203x316	-	-	5.90	254.00	1
10-10-1051	OM3 industrial	M	1½"	0.15	230	195	7.5	10	140x203x316	-	-	5.90	254.00	1
10-10-1173	OMA3 industrial	A	1½"	0.15	110	195	7.5	10	177x203x319	251	81	6.10	283.00	1
10-10-1202	OMA3 industrial	A	1½"	0.15	230	195	7.5	10	177x203x319	251	81	6.10	283.00	1
10-10-1183	OM3 domestic	M	32	0.15	230	195	7.5	10	140x203x316	-	-	5.90	258.00	1
10-10-1241	OMA3 domestic	A	32	0.15	230	195	7.5	10	177x203x319	251	81	6.10	289.00	1



POMA

COMPACT FLOAT

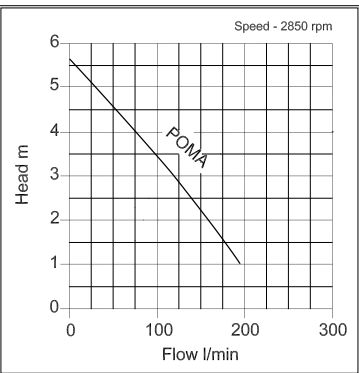
- Industry
- Utilities
- Processing
- Cellars
- Basements
- Final effluent



The POMA is a strong and efficient automatic pump in 304 stainless steel and thermoplastic. An exceptionally large flow is produced from an energy efficient 150-watt motor, which makes it ideal for many domestic and industrial jobs, particularly cellar and processing duties. It is not recommended for ponds or water features. It is also popular with water companies, who select it for its solids handling, level control and reliability. The close, compact positioning of the optional integral tube float switch is particularly suited to applications where a sump is narrow or where a traditional pendant type float's operation could be fouled. The 403 stainless steel shaft is fitted with an ultra hardwearing, double mechanical seal (inboard: silicon carbide-silicon carbide) – running in an oil chamber - and a vortex, thermoplastic impeller gives good soft solids handling. Supplied with 10 metres of heavy duty rubber power cable.

Users of 230volts have the option to select from two versions: the “domestic” is supplied with a hose tail and a hose clip (for fitting to flexible discharge hose) and a 3 pin plug fitted with a 5 amp fuse.

The “industrial” is supplied with a female BSP outlet (for fitting rigid waste pipe) but without a plug. 110volt pumps are supplied as “industrial”.

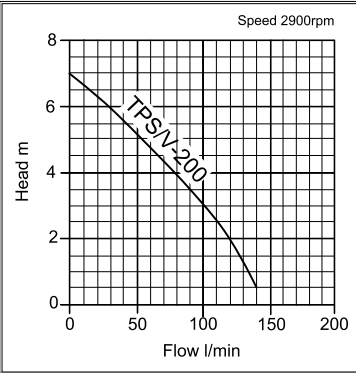


item code	model	Manual or Auto	outlet (BSPF/mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	on level (mm)	off level (mm)	dry weight (kgs)	Price (£)	code
10-10-1257	POMA industrial	A	2"	0.15	110	190	5.7	35	183x225x354	285	100	6.60	325.00	1
10-10-1072	POMA industrial	A	2"	0.15	230	190	5.7	35	183x225x354	285	100	6.60	325.00	1
10-10-1179	POMA domestic	A	50	0.15	230	190	5.7	35	183x225x354	285	100	6.60	330.00	1

TP

24 HOUR RUNNING

- Ponds
- Water features
- Fountains
- Water walls
- Special effects



The **TP** series has been specifically designed for use in the harsh environment of water features and fish ponds, but they can also be used for sump and transfer applications. The construction incorporates heavy duty bearings, a hard stainless steel (410) shaft fitted with an ultra-hard wearing silicon carbide mechanical seal (in a chamber of non-toxic oil) for durability and continuous operation. The motor case, pump body, strainer and impeller are constructed of thermoplastic for corrosion resistance. Available in two formats: the **TPS** will handle fish waste and dead plants up to 5mm while the **TPV** can handle up to 19mm. Supplied with 10 metres of heavy duty rubber power cable.



TPS-200S



TPV-200SA

item code	model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
15-10-1091	TPS-200S	M	32	0.20	230	140	7	5	146x170x330	3.90	107.00	4
15-10-1009	TPS-200SA	A	32	0.20	230	140	7	5	146x170x330	4.05	124.00	4
15-10-1092	TPV-200S	M	32	0.20	230	140	7	19	146x170x330	3.90	107.00	4
15-10-1086	TPV-200SA	A	32	0.20	230	140	7	19	146x170x330	4.05	124.00	4



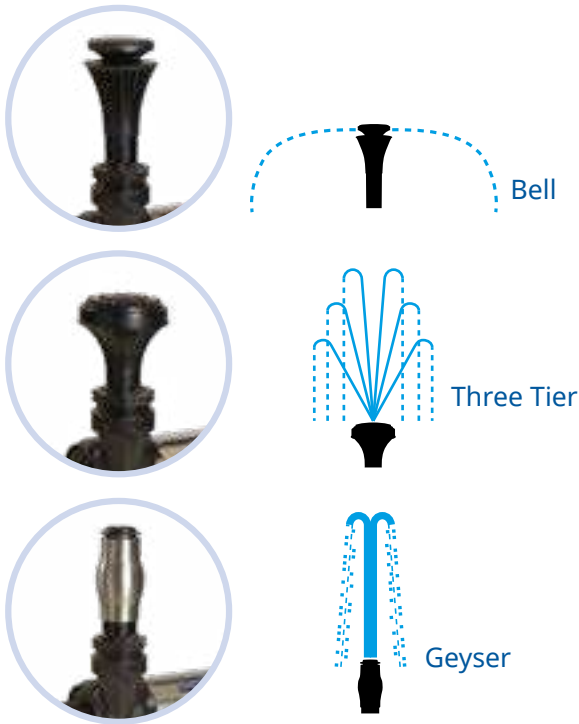
MH

24 HOUR RUNNING

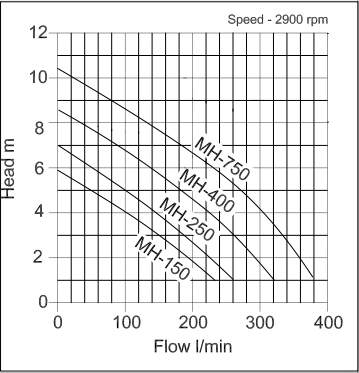
- Ponds
- Water features
- Fountains
- Water walls
- Special effects



The **MH** series of pumps are designed for circulation in ponds, feeding waterfalls and creating water features. All models are compact, yet powerful, however, the **MH-150** and **MH-250** are principally suited to the pre-formed pool or small pond. The larger models are better suited to the more significant moving water project, lake or large pond. The non-clog impeller can deal easily with fish waste, vegetation, soft solids etc up to a size of 6mm. The construction incorporates heavy duty bearings, a hard stainless steel (410) shaft fitted with an ultra-hard wearing silicon carbide mechanical seal (in a chamber of non-toxic oil) for durability and continuous operation. Corrosion resistant and hard wearing materials are used throughout with the motor housing in 304 stainless steel and pump casing, strainer and impeller in thermoplastic. Three rubber cushion feet enable them to be installed horizontally, or vertically on the strainer stand. This strainer is easily removed for cleaning the pump chamber. A 50mm outlet hose connector is supplied as standard, however, the female BSP outlet enables a simple connection for fountain attachments, pipe fittings and gate valves. Supplied with 10 metres of heavy duty power cable. Optional extras include a choice of three fountain attachments, to suit the **MH-150** and **MH-250**, and a telescopic nozzle extension pipe (extending from 278mm to 508mm), enable correct positioning above the water level. A gate valve is recommended (at an extra cost) for adjusting the flow to create the perfect water feature.



MH-250



MH-400

item code	fountain head/type (suitable for MH-250 only)	net weight (kgs)	Price (£)	code
12-85-1048	Bell (52318)	0.126	57.00	1
12-85-1006	Three tier (52319)	0.102	57.00	1
12-85-1024	Geyser (50984)	0.446	101.00	1
12-85-1050	Extension tube (52270)	0.110	52.00	1
26-85-1002	1" gate valve c/w reducing nipple	0.392	11.00	1

item code	model	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
15-10-1074	MH-150	50	0.15	230	230	6	162x175x376	6.90	175.00	4
15-10-1004	MH-250	50	0.25	230	260	7	162x175x376	7.30	189.00	4
15-10-1000	MH-400	50	0.40	230	320	8.5	162x175x396	8.55	226.00	4
15-10-1012	MH-750	50	0.75	230	380	10.5	162x175x411	10.15	249.00	4

FLOATING TREE

24 HOUR RUNNING

- Ponds
- Water features
- Oxygenation
- Decorative displays
- Elegant centrepieces



Floating Tree creates a stunning water display in any large pond or lake. Supplied with a powerful 450w submersible pump, which is coupled to the underside of three ballast tanks, the clearer water near the surface is pumped through an integral nozzle, creating a decorative fountain of up to 150cms high and 450cm wide. As it floats on the surface it can be operated in fluctuating levels and circulates the water above damaging heavy silt and debris. A minimum clear water depth of 60cm is required i.e. the area above mud, slime, sediment etc. Supplied with a small hand pump to enable equal filling and levelling of the tanks. Constructed in thermosplastic, it is simple to assemble and install, has various anchoring points and is supplied with 15 metres of heavy duty rubber power cable.



item code	model	kW	volt	dia x h (mm)	fountain height (cm)	Fountain width (cm)	dry weight (kgs)	Price (£)	code
15-10-1034	0.45	0.45	230	Ø750 x 510	50-150	100-450	11.4	378.00	4



MVH-10

HIGH PRESSURE

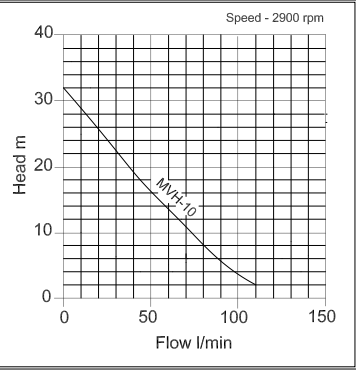
- Water butts
- Industry
- Irrigation
- Potable water
- Spraying
- Stored water



The **MVH-10** is a multi-stage pump and is intended for domestic and light industrial applications. The construction incorporates heavy duty bearings, a hard stainless steel (410) shaft fitted with an ultra-hard wearing silicon carbide mechanical seal (in a chamber of non-toxic oil) for durability. Corrosion resistant and hard wearing materials are used throughout with the motor housing, strainer and reinforced outlet in 304 stainless steel. The pump casing, head cover, base plate and impellers are all in thermoplastic. It has an integral starting capacitor and has a pendant type float switch. It is not recommended for operation against the closed valve of a tap or a nozzle. It is supplied with 10 metres of heavy duty rubber power cable. The maximum depth of submersion is 8 metres.



MVH-10A

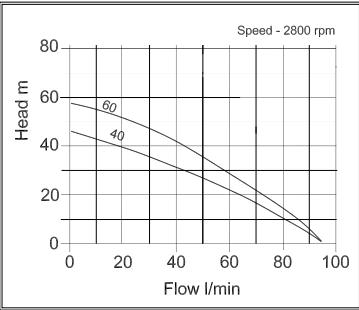
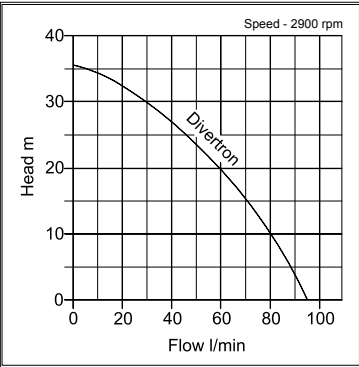


item code	model	Manual or Auto	outlet (FBSP)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	well size (mm)	dry weight (kgs)	Price (£)	code
15-10-1038	MVH-10A	A	1"	0.55	230	110	32	162x171x461	435+	9.30	264.00	1

DIVERTRON • ACUAFLUSS

HIGH PRESSURE ELECTRONIC CONTROL

- Rainwater harvesting
- Industry
- Agriculture
- Irrigation
- Dust suppression



The **Acuafluss** and **Divertron** are portable, high head, automatic pumps designed for clean water applications only. They are multi-stage pumps, with integral electronics for sophisticated, high head, use in domestic and industrial applications. With integral pressure regulators, they are programmed to 1) start and stop automatically when a valve or tap is opened or closed, and 2) stop the pump automatically in the event of dry running – which is detrimental to most high pressure pumps. This feature makes them ideal for sprinkling, washing and many other industrial applications.

Acuafluss models can pump water containing up to 60 g/m³ of suspended solids. They have a 304 stainless steel body and strainer with thermoplastic diffusers and impellers. Each pump stage is fitted with a 304 stainless steel ring for enhanced wear resistance. The 420 stainless steel shaft is fitted with a mechanical seal, intermediate oil chamber and inner lip seal, which offer excellent wear resistance. For a simple and easy installation this series features integral motor protection and starting capacitors. They are supplied with 20 metres of heavy duty rubber power cable. The maximum depth of submersion is 17 metres.

The **Divertron** body is constructed in thermoplastic and has a stainless steel strainer. It has thermoplastic diffusers and impellers, a stainless steel shaft and this is fitted with a lip seal. It has an integral starting capacitor, a non-return valve and it is supplied with 15 metres of heavy duty rubber power cable. The maximum depth of submersion is 15 metres.



Divertron



Acuafluss

item code	model	Manual or Auto	outlet (FBSP)	kW	volt	flow (l/min)	head (mtrs)	dia x h (mm)	dry weight (kgs)	Price (£)	code
22-10-1032	Acuafluss 40	A	1"	0.6	230	95	45	Ø127x571	12.30	422.00	1
22-10-1011	Acuafluss 60	A	1"	0.75	230	95	57	Ø127x616	13.30	469.00	1
22-10-1018	Divertron	A	1"	0.90	230	95	36	Ø150x450	11.00	372.00	1



The **Eurojet** is a high head pump with a 304 stainless steel delivery housing and motor jacket. It is designed for clean water supply use only and is suitable for domestic and industrial applications, including processing and potable water. This multi-stage pump has a 420 stainless steel shaft, thermoplastic impellers and diffusers and is fitted with a single mechanical seal. For simple and easy installation it is supplied with 20 metres of heavy duty rubber cable (30 metres is optional) and features an integral starting capacitor and motor protector. Available with or without a float switch, flow on the manual version (no float switch) can alternatively be controlled by including a pressure controller in the delivery line (see pages 79 to 81).

A stainless steel sand filter is available as an optional extra to prevent damage to the pump from abrasive solids. It has a mesh size of 80 microns.

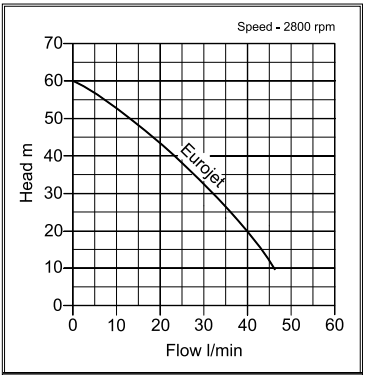


Eurojet manual



Eurojet auto

- Gardens
- Industry
- Agriculture
- Irrigation
- Potable water
- Spraying



Optional sand filter

item code	model	Manual or Auto	outlet (FBSP)	kW	volt	flow (l/min)	head (mtrs)	dia x h (mm)	bore hole (size)	dry weight (kgs)	Price (£)	code
22-10-1039	Eurojet	M	1"	0.55	230	46	60	Ø99 x 560	4"	8.00	302.00	1
22-10-1008	Eurojet	A	1"	0.55	230	46	60	Ø99 x 560	4"	8.30	313.00	1
22-85-1000 - Optional extra: sand filter											37.00	1

ACUASUB

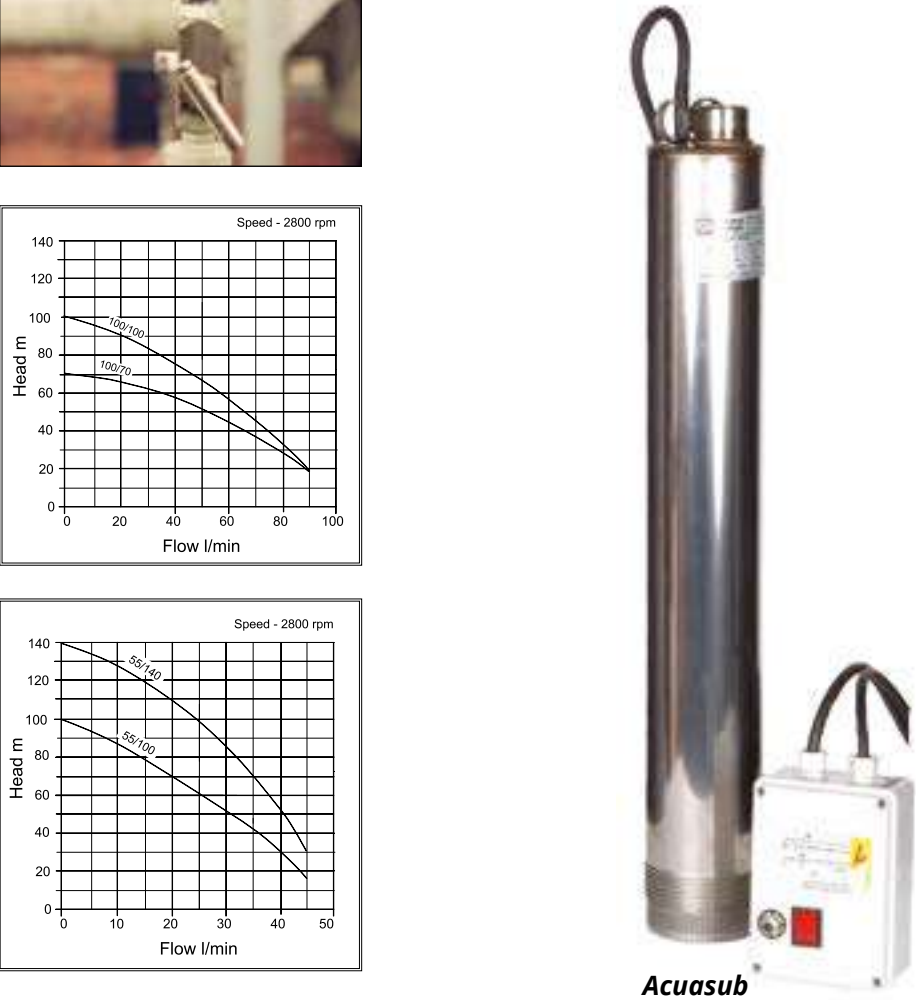
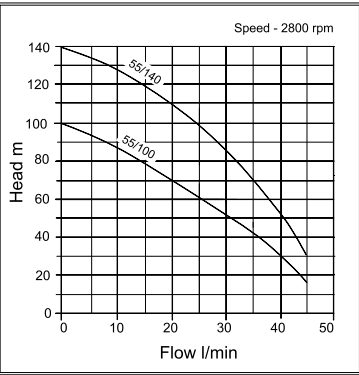
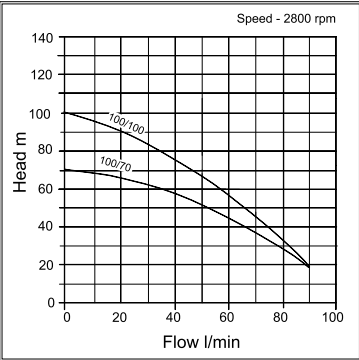
4" BOREHOLES

- Industry
- Agriculture
- Irrigation
- Potable water
- Processing
- Spraying



The **Acuasub** series are multi stage pumps for use in industrial and agricultural applications. They are suitable for pumping potable water and water containing up to 60 g/m³ of suspended solids. The mono-bloc design provides exceptional hydraulic performance of large flows at very high pressures. These features are normally the characteristics of the conventional motor and cartridge, bore-hole pump combinations. However, the **Acuasub** series can pump low water levels and offer considerable cost savings over this traditional arrangement. They have a 304 stainless steel body and strainer with thermoplastic diffusers and impellers. Each pump stage is fitted with a 304 stainless steel ring for enhanced wear resistance. The 420 stainless steel shaft is fitted with a mechanical seal, intermediate oil chamber and inner lip seal, which combine to offer excellent wear resistance. All models are supplied with 20 metres of heavy duty rubber power cable and an external, inline starter and motor protection box. Flow can be controlled by including a pressure switch in the delivery line (see pages 79 to 81).

A stainless steel sand filter is available as an optional extra to prevent damage to the pump from abrasive solids. It has mesh size of 80 microns.



Acuasub



Optional sand filter

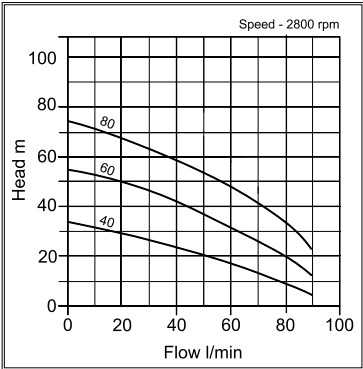
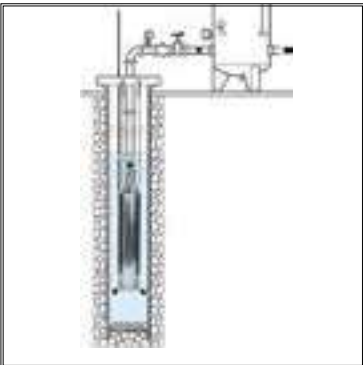
item code	model	Manual or Auto	outlet (FBSP)	kW	volt	flow (l/min)	head (mtrs)	dia x h (mm)	bore hole (size)	dry weight (kgs)	Price (£)	code
22-10-1030	Acuasub 55/100	M	1¼"	0.75	230	45	100	Ø99x672	4"	13.00	434.00	1
22-10-1005	Acuasub 55/140	M	1¼"	1.10	230	45	140	Ø99x830	4"	14.00	501.00	1
22-10-1029	Acuasub 100/70	M	1¼"	0.75	230	90	70	Ø99x565	4"	13.00	400.00	1
22-10-1010	Acuasub 100/100	M	1¼"	1.10	230	90	100	Ø99x680	4"	15.00	450.00	1
22-85-1000	Optional extra: sand filter										43.00	1



ACUATEC

5" BOREHOLES

- Industry
- Agriculture
- Irrigation
- Potable water
- Processing
- Spraying



The **Acuatec** series are multi stage pumps for use in a variety of applications where a good flow, at a high pressure, is required. They are suitable for pumping potable water and water containing up to 60 g/m³ of suspended solids. They have a 304 stainless steel body and strainer with thermoplastic diffusers and impellers. Each pump stage is fitted with a 304 stainless steel ring for enhanced wear resistance. The 420 stainless steel shaft is fitted with a mechanical seal, intermediate oil chamber and inner lip seal, which offer excellent wear resistance. For a simple and easy installation this series features integral motor protection and starting capacitors. All models are supplied with 20 metres of heavy duty rubber power cable. Available with or without a float switch, flow on the manual versions (no float switch) can alternatively be controlled by including a pressure controller in the delivery line (see pages 80 and 81).



Acuatec manual



Acuatec auto

item code	model	Manual or Auto	outlet (FBSP)	kW	volt	flow (l/min)	head (mtrs)	dia x h (mm)	bore hole (size)	dry weight (kgs)	Price (£)	code
22-10-1031	Acuatec 40	M	1¼"	0.60	230	90	33	Ø127x420	5"	12.00	334.00	1
22-10-1004	Acuatec 40	A	1¼"	0.60	230	90	33	Ø127x420	5"	12.30	345.00	1
22-10-1015	Acuatec 60	M	1¼"	0.90	230	90	55	Ø127x490	5"	13.00	374.00	1
22-10-1019	Acuatec 60	A	1¼"	0.90	230	90	55	Ø127x490	5"	13.30	386.00	1
22-10-1034	Acuatec 80	M	1¼"	1.20	230	90	75	Ø127x570	5"	15.00	449.00	1
22-10-1021	Acuatec 80	A	1¼"	1.20	230	90	75	Ø127x570	5"	15.30	460.00	1

ACUABIG

5" BOREHOLES

- Industry
- Agriculture
- Irrigation
- Potable water
- Processing
- Spraying

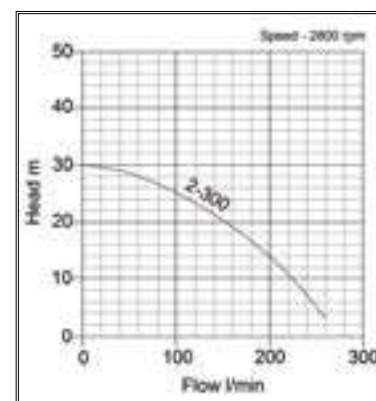
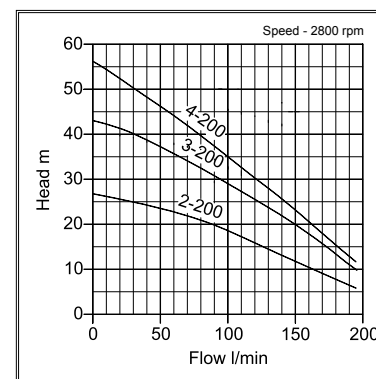


The **Acuabig** series are multi stage pumps for use in a variety of applications where a large flow rate, at a high pressure, is required. They are suitable for pumping potable water and water containing up to 60 g/m³ of suspended solids. They have 304 stainless steel bodies and strainers with Noryl diffusers and impellers. Pump stages are fitted with 304 stainless steel rings for enhanced wear resistance. The 420 stainless steel shafts are fitted with mechanical seals, intermediate oil chambers and inner lip seals, which offer excellent wear resistance. For simple and easy installation this series features integral motor protection and starting capacitors. All models are supplied with 20 metres of heavy duty rubber power cable. The series is available with or without a float switch, however the flow on the manual versions can alternatively be controlled by including a pressure controller in the delivery line (see pages 80 and 81).



Acuabig manual

Acuabig auto

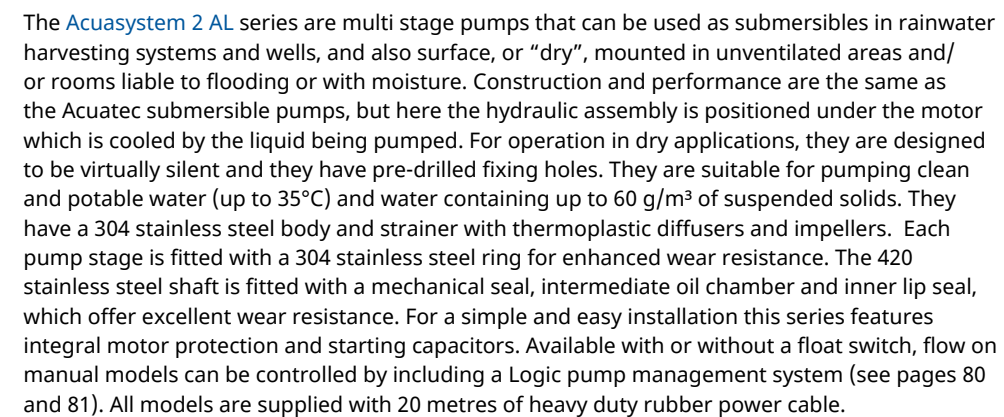


SUB & SURFACE RAINWATER & DRY

ACUASYSTEM 2 AL

HARVESTING & WET AREAS

- Industry
- Agriculture
- Rainwater harvesting
- Irrigation
- Potable water
- Processing



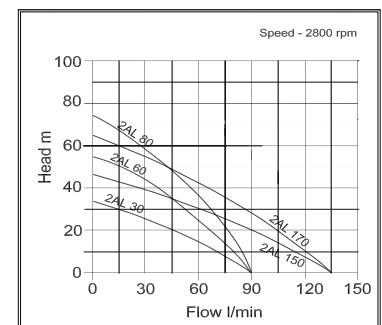
For submersible applications, a floating suction set is a simple way of draining water from a tank without sucking in debris from the bottom. The suction fitting comprises a brass foot valve and strainer, which is held just below the water line by a stainless steel split ring and an impact resistant ABS float. Supplied with a brass hose connector and 2 metres of light duty suction hose.



Floating suction set



Acuasystem 2AL 30



item code	model	Manual or Auto	outlet (FBSP)	kW	volt	flow (l/min)	head (mtrs)	dia x h (mm)	bore hole (size)	dry weight (kgs)	Price (£)	code
22-10-1027	Acuabig 2-200	M	2"	0.75	230	195	27	Ø127x455	5"	12.00	448.00	1
22-10-1002	Acuabig 2-200	A	2"	0.75	230	195	27	Ø127x455	5"	12.30	459.00	1
22-10-1013	Acuabig 3-200	M	2"	1.10	230	195	43	Ø127x525	5"	13.00	497.00	1
22-10-1024	Acuabig 3-200	A	2"	1.10	230	195	43	Ø127x525	5"	13.30	508.00	1
22-10-1016	Acuabig 4-200	M	2"	1.50	230	195	57	Ø127x600	5"	15.00	603.00	1
22-10-1001	Acuabig 4-200	A	2"	1.50	230	195	57	Ø127x600	5"	15.30	615.00	1
22-10-1036	Acuabig 2-300	M	2"	1.10	230	260	30	Ø127x525	5"	16.70	482.00	1
22-10-1037	Acuabig 2-300	A	2"	1.10	230	260	30	Ø127x525	5"	17.00	492.00	1

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LSC1.4S

PUDDLE SUCKING



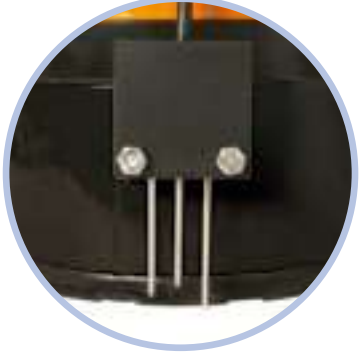
Dual position outlet



50mm outlet



Sensor



SwitchH2O



LSC1.4S



The LSC1.4S or “puddle sucker” is able to pump water down to 1mm, which makes it suitable for pumping large or small areas of nuisance water found on flat surfaces. It incorporates a dual position outlet port, to enable the user to position the outlet hose horizontally or vertically and avoid it kinking. For improved durability, during robust handling, it has a pressed steel outer casing and a cast aluminium pump stand to offer increased protection of the stainless steel and rubber base plate. A combination of a rubber pump chamber and a urethane vortex impeller enables the design to offer excellent wear resistance in site water applications that contain sand and silt in suspension, thus maintaining performance and reliability. An additional feature is an integral swing check valve which will prevent backflow of water from the discharge hose, containing priming water for pumping to begin quickly. Quality is further enhanced with a 403 stainless steel shaft that is fitted with an ultra hardwearing, silicon carbide, double mechanical seal (in an oil chamber), and an oil lifter to maintain seal lubrication during operation in any position. This feature, combined with the water and air cooling route to the top outlet, allows the pump to operate for extended periods while pumping small amounts of water. Used widely by hire outlets, utilities and flood control companies. Supplied with 10 metres of heavy duty rubber power cable.

Management of water levels can be controlled with a SwitchH2O system or a Tsurumi Sensor.

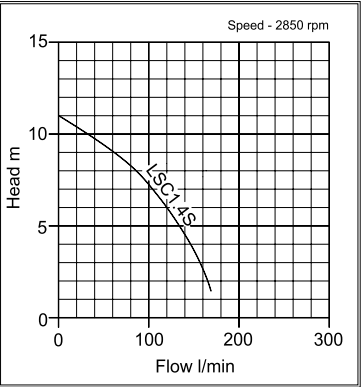
The SwitchH2O consists of 3 probes, in 304 stainless steel, that are set in an epoxy-resin filled holder and they represent on, off and common. The SwitchH2O here is supplied with a Simplex control panel and 10 metres of low voltage, PVC power cable. For full details of this product see page 77.

The Sensor is an electronic float switch with two stainless steel probes. These are encapsulated in impact resistant moulded rubber, hence this switch is suited to portable applications. However, the compact design and precise level control also makes it suitable for fixed installations and narrow or shallow sumps. As an optional extra, probe extensions are available to enable pumping down to between 85mm and almost ground level, depending on the sump size/area being drained. The extensions are an optional extra for the standard Sensor (see page 78).

LSC1.4S

PUDDLE SUCKING

- Hire fleets
- Construction
- Utilities
- Flood control
- Fixed installations
- Lift shafts



item code	Model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	on level (mm)	off level (mm)	dry weight (kgs)	Price (£)	code
10-10-1186	LSC1.4S	M	25	0.48	110	170	11	Ø196x316	-	-	12.00	438.00	2
10-10-1233	LSC1.4S	M	25	0.48	230	170	11	Ø196x316	-	-	12.00	438.00	2
10-10-1024	LSC1.4S	M	50	0.48	110	170	11	Ø196x316	-	-	12.00	452.00	2
10-10-1256	LSC1.4S	M	50	0.48	230	170	11	Ø196x316	-	-	12.00	452.00	2
10-10-1144	LSC1.4S c/w Sensor	A	25	0.48	110	170	11	227x196x316	258	145	12.70	648.00	2
10-10-1222	LSC1.4S c/w Sensor	A	25	0.48	230	170	11	227x196x316	258	145	12.70	648.00	2
10-10-1057	LSC1.4S c/w Sensor	A	50	0.48	110	170	11	227x196x316	258	145	12.70	662.00	2
10-10-1157	LSC1.4S c/w Sensor	A	50	0.48	230	170	11	227x196x316	258	145	12.70	662.00	2
10-10-1252	LSC1.4S c/w SwitchH2O & control panel	A	25	0.48	110	170	11	221x196x316	15 - 50	5 - 40	12.05	678.00	2
10-10-1224	LSC1.4S c/w SwitchH2O & control panel	A	25	0.48	230	170	11	221x196x316	15 - 50	5 - 40	12.05	678.00	2
10-10-1171	LSC1.4S c/w SwitchH2O & control panel	A	50	0.48	110	170	11	221x196x316	15 - 50	5 - 40	12.05	693.00	2
10-10-1071	LSC1.4S c/w SwitchH2O & control panel	A	50	0.48	230	170	11	221x196x316	15 - 50	5 - 40	12.05	693.00	2

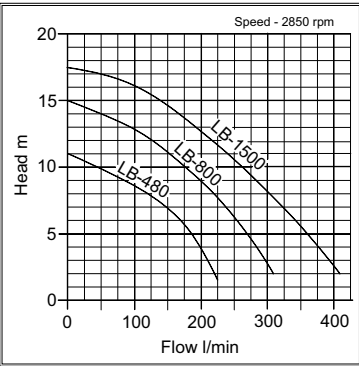
LB

SINGLE PHASE

- Hire fleets
- Construction
- Utilities
- Dewatering
- Fixed installations
- Water features



The **LB** series are extremely robust, compact contractor pumps, that have a 50mm (2") outlet and a tough pressed steel strainer base and body. A choice of 0.48kW, 0.75kW and 1.5kW motors assist cost effective pump selection. They all offer excellent durability during periods of continuous use and/or operator abuse. The **LB480** and **LB800** models incorporate a dual position outlet port, to enable the user to position the outlet hose horizontally or vertically and avoid it kinking, while the **LB1500** has a single position outlet only. A combination of a rubber pump chamber, rubber wear plate and a urethane (chromium iron on **LB1500**) vortex impeller provides excellent wear resistance in site water applications that contain sand and silt in suspension, thus maintaining performance and reliability. All three models use a 403 stainless steel shaft that is fitted with an ultra hardwearing, silicon carbide, double mechanical seal, (in an oil chamber), with an oil lifter to maintain seal lubrication during operation in any position. This feature, combined with the water and air cooling route to the top outlet, allows the pump to operate for extended periods while pumping small amounts of water. Considered the "hire industry standard", earlier models of the **LB480** have been used in this trade since the mid 1970's. Supplied with 10 metres of heavy duty rubber power cable. Available in single-phase only, with an optional float switch on the **LB480** and **LB800**.



item code	model	Manual or Auto	outlet (mm/BSPM)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	dia x h (mm)	dry weight (kgs)	Price (£)	code
10-10-1115	LB-480	M	50	0.48	110	225	11	6	Ø187x275	10.40	330.00	2
10-10-1118	LB-480	M	50	0.48	230	225	11	6	Ø187x275	10.40	330.00	2
10-10-1178	LB-480	A	50	0.48	110	225	11	6	Ø187x275	10.80	362.00	2
10-10-1203	LB-480	A	50	0.48	230	225	11	6	Ø187x275	10.80	362.00	2
10-10-1129	LB-800	M	50	0.75	110	310	15	6	Ø187x341	13.00	545.00	2
10-10-1094	LB-800	M	50	0.75	230	310	15	6	Ø187x341	13.00	545.00	2
10-10-1130	LB-800	A	50	0.75	110	310	15	6	Ø187x341	13.40	578.00	2
10-10-1022	LB-800	A	50	0.75	230	310	15	6	Ø187x341	13.40	578.00	2
10-10-1087	LB-1500	M	2"	1.50	230	420	17.5	6	Ø187x600	32.50	1,538.00	2



HS

SINGLE PHASE

- Hire fleets
- Construction
- Utilities
- Dewatering
- Fixed installations
- Water features



The **HS** series are 50mm (2") and 80mm (3") submersible pumps with motor sizes in 400watt and 750watt. The models **HS2.75S** and **HS3.75S** offer increased head and flow capability over the **HS2.4S**. All models have a solid cast aluminium body, cast iron pump casing and an impact resistant PVC strainer base for durability during robust handling. The urethane vortex impeller offers excellent wear resistance in site applications where the water contains sand and silt in suspension, thus maintaining performance and reliability. The 750watt pumps feature an oil lifter to maintain seal lubrication during operation in any position. All models have a 403 stainless steel shaft, that is fitted with an ultra hardwearing, double mechanical seal (inboard: silicon carbide-silicon carbide) - which runs in an oil chamber - and have a stirring device to reduce blockages. Used predominantly as contractor pumps on site drainage duties, they can also be used in other industrial applications. Supplied with 10 metres of heavy duty, rubber power cable. Available in single-phase only with an optional float switch.

The puddle pump adaptor kit is an optional extra that will convert the **HS2.4S** to a puddle sucker. It will enable the pumping of water levels down to 10mm, maximize utilisation and is very simple to fit. The kit comprises a rubber coated steel bottom plate, stainless steel bolts, nuts and washers.

All Tsurumi 110 volts contractor pumps are factory fitted with 16A plugs and supplied with a hose clip. However the **HS2.4S** is available without either to keep the price competitive - see model code **HS2.4S(B)**. This model is supplied only when specifically requested.

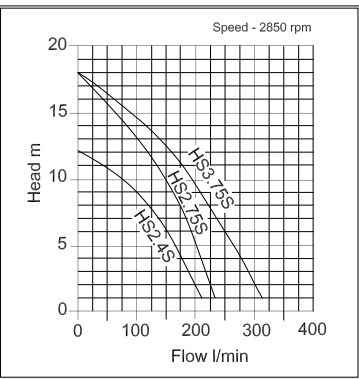


WANT A PUDDLE PUMP?

Convert the **HS2.4S** by fitting a residue plate.

Pumps down to 10mm

Rubber coated steel plate

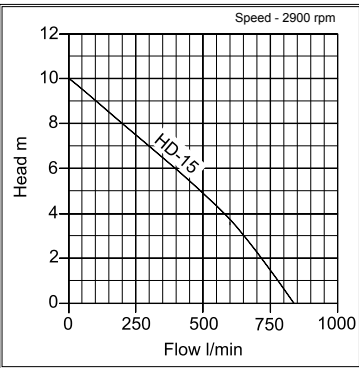


item code	model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
10-10-1083	HS2.4S(B)	M	50	0.40	110	205	12	7	185x241x328	11.30	265.00	2
10-10-1163	HS2.4S	M	50	0.40	110	205	12	7	185x241x328	11.30	291.00	2
10-10-1181	HS2.4S	M	50	0.40	230	205	12	7	185x241x328	11.30	300.00	2
10-10-1195	HS2.4S	A	50	0.40	110	205	12	7	185x241x328	11.70	322.00	2
10-10-1154	HS2.4S	A	50	0.40	230	205	12	7	185x241x328	11.70	332.00	2
10-10-1020	HS2.75S	M	50	0.75	110	230	18	7	185x290x385	16.90	441.00	2
10-10-1095	HS2.75S	M	50	0.75	230	230	18	7	185x290x385	16.90	441.00	2
10-10-1058	HS2.75S	A	50	0.75	110	230	18	7	185x290x385	17.30	472.00	2
10-10-1237	HS2.75S	A	50	0.75	230	230	18	7	185x290x385	17.30	472.00	2
10-10-1147	HS3.75S	M	80	0.75	110	310	18	7	185x290x385	16.90	441.00	2
10-10-1159	HS3.75S	M	80	0.75	230	310	18	7	185x290x385	16.90	441.00	2
10-10-1003	HS3.75S	A	80	0.75	110	310	18	7	185x290x385	17.30	472.00	2
10-10-1145	HS3.75S	A	80	0.75	230	310	18	7	185x290x385	17.30	472.00	2
10-85-1016	Puddle pump adaptor kit for HS2.4S									0.55	46.00	2

HD-15

HIGH FLOW

- Hire fleets
- Construction
- Utilities
- Dewatering
- Water features
- Mines & quarries



The HD-15 offers a huge flow from a relatively small single phase motor and it has been designed specifically for use as a contractor’s pump in site applications where the water contains sand and silt in suspension. For this use, the 1.15kW motor is supplied in 110volts and will use a 16amp plug connection. For other applications, it is also supplied in 230 volts and it will use a 13amp plug connection. With a continuously rated motor, this pump is also suitable for use in large ponds and for water features. For added convenience, cumbersome external control boxes are not required because the design features an integral capacitor and motor protection. To withstand the rigours of site use, water features etc. the impeller, suction cover and pump casing are constructed in wear resistant ductile iron and the motor frame is in 304 stainless steel. The motor head cover is in regular cast iron. The 410 stainless steel shaft is fitted with an ultra hardwearing, silicon carbide, double mechanical seal (in an oil chamber). Supplied with 10 metres of heavy duty rubber power cable.



HD-15A

HD-15

item code	model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
15-10-1062	HD-15	M	80	1.15	110	830	10	9	190x310x505	25.45	558.00	2
15-10-1097	HD-15	M	80	1.15	230	830	10	9	190x310x505	25.45	558.00	2
15-10-1099	HD-15	A	80	1.15	110	830	10	9	190x310x505	26.10	592.00	2
15-10-1036	HD-15	A	80	1.15	230	830	10	9	190x310x505	26.10	592.00	2
15-85-1005	Optional extra: 50mm outlet										19.00	2



PVM200/R has a rugged cast iron pump body and impeller, combined with a corrosion resistant 304 stainless steel motor casing for durability. A single mechanical seal, in silicon-carbide, is fitted on a 420 stainless steel shaft for added reliability. This compact pump offers a good flow to head ratio from a motor of relatively low power. Suitable for the pumping of dirty water, it is supplied with an external, in-line starter and motor protection within a starter box. It is suitable for a variety of industrial applications but is not for ponds or water features. Supplied with 10 metres of heavy duty rubber power cable.



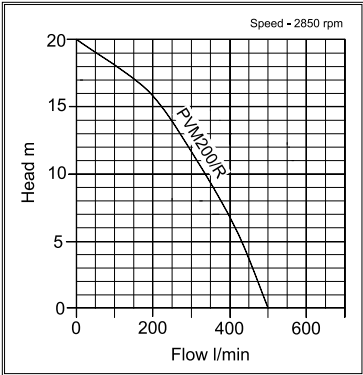
PVM200/R manual

PVM200/R auto

PVM200/R

HIGH HEAD

- Industry
- Utilities
- Dewatering
- Fixed installations
- Processing

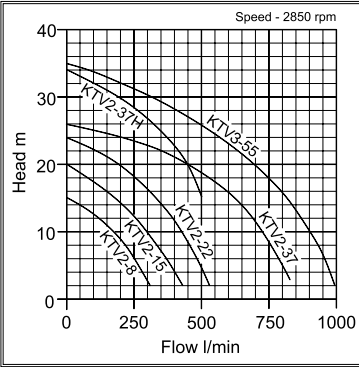


item code	model	Manual or Auto	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
22-10-1000	PVM200/R	M	2"	1.5	230	500	20	10	170x310x458	24.90	622.00	1
22-10-1033	PVM200/R	A	2"	1.5	230	500	20	10	170x310x458	25.30	633.00	1
13025001	Optional extra: 2" BSPM x 50mm hose tail (polypropylene)										6.15	6

KTV

3 PHASE

- Mines & quarries
- Construction
- Hire fleets
- Tunnelling
- Industry
- Processing



The **KTV** drainage pumps are lightweight, yet heavy-duty and offer excellent wear resistance for maximum durability and minimum maintenance even during prolonged operation in the severest conditions. With lightweight, cast aluminium motor bodies and pressed steel strainers these pumps are truly portable. Fitted with vortex impellers, in ductile iron (urethane on 0.75kW models) and rubber pump chambers, they give outstanding wear resistance in applications with high sand and silt content. The heavy duty motors are fitted with internal overloads, enabling simple installation and direct connection to the power supply. The 420 (0.75kW)/ 403 (>1.5kW) stainless steel shafts are fitted with ultra hardwearing double mechanical seals (inboard: silicon carbide-silicon carbide) which run in an oil chamber that has an oil lifter for positive seal lubrication during operation in any position. This feature, combined with the water and air cooling channel to the top outlet, enables these pumps to operate for extended periods in little or no water. Maintenance is straightforward, with the simple replacement of wearing parts without the need for a workshop or even special tools.

All models are supplied with 20 metres of heavy duty rubber power cable, except the 0.75kW models which are supplied with 10 metres. All models are supplied with a threaded outlet and a hose connector. IDS (individually screened cable) is available, at an extra cost, on 3.7kW and 5.5kW models, for quarry and mining applications.



KTV2-8



KTV2-37

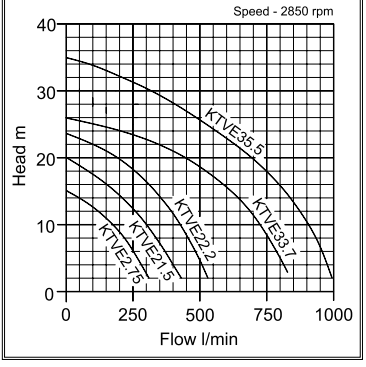
item code	model	Manual or Auto	outlet (BSPM & mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	dia x h (mm)	dry weight (kgs)	Price (£)	code
10-10-1167	KTV2-8	M	2" & 50	0.75	400	320	15	6	Ø200x369	11.50	766.00	1
10-10-1236	KTV2-15	M	2" & 50	1.5	400	425	20	8.5	Ø240x396	19.50	1,400.00	1
10-10-1029	KTV2-22	M	2" & 50	2.2	400	525	24	8.5	Ø240x416	23.00	1,494.00	1
10-10-1134	KTV2-37	M	3" & 80	3.7	400	830	26	8.5	Ø285x510	34.00	2,181.00	1
10-10-1200	KTV2-37H	M	2" & 50	3.7	400	500	34	8.5	Ø285x510	34.00	2,181.00	1
10-10-1137	KTV3-55	M	3" & 80	5.5	400	980	35	8.5	Ø300x545	46.50	2,540.00	1



KTVE

3 PHASE AUTO

- Mines & quarries
- Construction
- Hire fleets
- Tunnelling
- Industry
- Processing



The **KTVE** pumps offer an automatic option to the **KTV** series, without the need for external control panels and cumbersome float switches. A sensor probe is mounted in a durable, moulded rubber bracket and, for added protection, it is positioned within the footprint of the pump base. Once the water level reaches the probe, the pump will start and continue to operate for one minute after the water falls below it. However, if the water level touches the probe within this time, the "stop" signal is cancelled and the pump continues to run until the water is cleared. To enable a lower "on level" (by a further 90mm), the sensor probe can be lengthened by fitting the electrode extender (part no: 090-126-15), which is an optional extra.

All models are supplied with 20 metres of heavy duty rubber power cable, except the 0.75kW models which are supplied with 10 metres. All models are supplied with a threaded outlet and a hose connector. IDS (individually screened cable) is available, at an extra cost, on 3.7kW and 5.5kW models, for quarry and mining applications.



KTVE22.2

item code	model	Manual or Auto	outlet (BSPM & mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	dia x h (mm)	on level (mm)	off level (mm)	dry weight (kgs)	Price (£)	code
10-10-1069	KTVE2.75	A	2" & 50	0.75	400	320	15	6	Ø200x417	204	65	12.70	1,132.00	1
10-10-1204	KTVE21.5	A	2" & 50	1.5	400	425	20	8.5	Ø240x486	235	80	22.00	1,734.00	1
10-10-1037	KTVE22.2	A	2" & 50	2.2	400	525	24	8.5	Ø240x486	235	80	25.00	1,885.00	1
10-10-1098	KTVE33.7	A	3" & 80	3.7	400	830	26	8.5	Ø285x585	297	90	40.00	2,726.00	1
10-10-1185	KTVE35.5	A	3" & 80	5.5	400	980	35	8.5	Ø300x620	327	90	52.00	3,346.00	1
090-126-15	Electrode extender												18.00	1

KTZ

3 PHASE

- Mines & quarries
- Construction
- Hire fleets
- Tunnelling
- Industry
- Processing



The **KTZ** series are heavy-duty drainage pumps that provide exceptional wear resistance to maximise performance and minimise maintenance during operation in the worst possible conditions. The design features a pump casing and a motor frame in cast iron and an open impeller in chromium iron. The heavy duty motor is fitted with internal overloads, enabling simple installation and direct connection to the power supply. The 420 stainless steel shaft is fitted with an ultra hardwearing, silicon carbide, double mechanical seal (in an oil chamber), and an oil lifter for positive seal lubrication in any position. This feature, combined with the water and air cooling channel to the top outlet, allows the pump to operate for extended periods with little or no water. Maintenance is straightforward, with simple replacement of wearing parts without the need for a workshop or even special tools. Owners will also benefit from being able to alter the head and capacity of the pump by simply changing the impeller and suction cover, avoiding the need to buy another complete pump if the application changes.

A new feature on all models of **KTZ** is a dual position outlet port, to enable the user to position the outlet hose in the required direction which may be horizontal or vertical and hence avoid kinking of layflat discharge hose. Models 0.75kw to 5.5Kw are supplied with a threaded outlet and a hose connector.

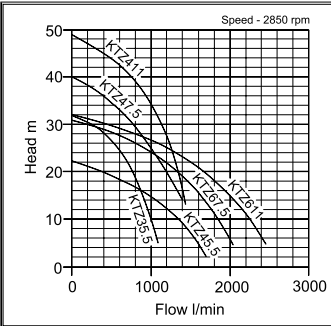
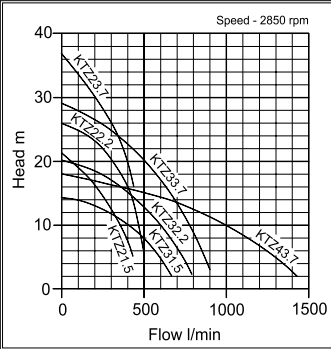
All models are supplied with 20 metres of heavy duty rubber power cable, although IDS (individually screened cable) is available on most models, at an extra cost, for quarry and mining applications. Sacrificial anodes are also available (price on request).



KTZ23.7



KTZ47.5



item code	model	Manual or Auto	outlet (BSPM & mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
10-10-1052	KTZ21.5	M	2" & 50	1.5	400	425	21	8.5	216x235x478	35	1,400.00	1
10-10-1006	KTZ31.5	M	3" & 80	1.5	400	670	14	8.5	216x235x478	35	1,400.00	1
10-10-1136	KTZ22.2	M	2" & 50	2.2	400	500	26	8.5	216x235x498	36	1,561.00	1
10-10-1192	KTZ32.2	M	3" & 80	2.2	400	800	20	8.5	216x235x498	35	1,561.00	1
10-10-1162	KTZ23.7	M	2" & 50	3.7	400	440	37	8.5	252x283x637	62	2,181.00	1
10-10-1253	KTZ33.7	M	3" & 80	3.7	400	900	29	8.5	252x283x637	62	2,181.00	1
10-10-1238	KTZ43.7	M	4" & 100	3.7	400	1430	18	8.5	252x283x637	62	2,181.00	1
10-10-1093	KTZ35.5	M	3" & 80	5.5	400	1100	32	10	259x306x688	76	2,540.00	1
10-10-1097	KTZ45.5	M	4" & 100	5.5	400	1700	22	10	259x306x688	77	2,540.00	1
10-10-1026	KTZ47.5	M	4"	7.5	400	1400	40	12	314x330x687	100	3,295.00	1
10-10-1007	KTZ67.5	M	6"	7.5	400	2040	31	20	314x330x687	99	3,295.00	1
10-10-1065	KTZ411	M	4"	11	400	1450	49	12	350x373x740	130	4,233.00	1
10-10-1149	KTZ611	M	6"	11	400	2440	32	20	350x373x740	131	4,233.00	1



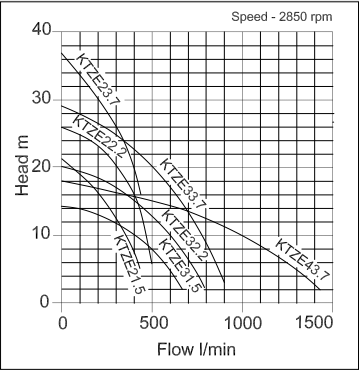
The **KTZE** pumps offer an automatic option to the **KTZ** series, without the need for external control panels and cumbersome float switches. A sensor probe is mounted in a durable, moulded rubber bracket and, for added protection, it is positioned within the footprint of the pump base. Once the water level reaches the probe, the pump will start and continue to operate for one minute after the water falls below it. However, if the water touches the probe within this time, the "stop" signal is cancelled and the pump continues to run until the water is cleared. To enable a lower "on level" (by a further 90mm), the sensor probe can be lengthened by fitting the electrode extender (part no: 090-126-15), which is an optional extra. The **KTZE** design also includes a dual position outlet port, to enable the user to position the outlet hose in the required direction which may be horizontal or vertical and hence avoid kinking of layflat discharge hose.

All models are supplied with 20 metres of heavy duty rubber power cable, although IDS (individually screened cable) is available on most models, at an extra cost, for quarry and mining applications. Models are supplied with a threaded outlet and a hose connector.



KTZE31.5

- Mines & quarries
- Construction
- Hire fleets
- Tunnelling
- Industry
- Processing

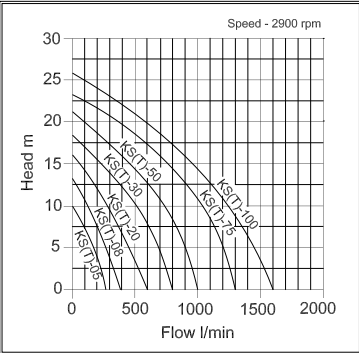


item code	model	Manual or Auto	outlet (BSPM & mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	on level (mm)	off level (mm)	dry weight (kgs)	Price (£)	code
10-10-1068	KTZE21.5	A	2" & 50	1.5	400	425	21	8.5	216x235x609	345	120	40	1,597.00	1
10-10-1010	KTZE31.5	A	3" & 80	1.5	400	670	14	8.5	216x235x609	345	120	39	1,597.00	1
10-10-1109	KTZE22.2	A	2" & 50	2.2	400	500	26	8.5	216x235x629	355	120	42	1,783.00	1
10-10-1226	KTZE32.2	A	3" & 80	2.2	400	800	20	8.5	216x235x629	355	120	41	1,783.00	1
10-10-1119	KTZE23.7	A	2" & 50	3.7	400	440	37	8.5	252x283x747	435	150	71	2,497.00	1
10-10-1122	KTZE33.7	A	3" & 80	3.7	400	900	29	8.5	252x283x757	435	150	71	2,497.00	1
10-10-1101	KTZE43.7	A	4" & 100	3.7	400	1430	18	8.5	252x283x767	435	150	71	2,497.00	1
090-126-15	Electrode extender												18.00	1

KST

3 PHASE

- Construction
- Transfer
- Industry
- Hire fleets
- Processing



The **KST** series of drainage pumps combine corrosion resistant 304 stainless steel motor jackets with pump casings, head covers and open impellers in cast iron for durability. Models up to 2.2kW have stainless steel strainers with integral discharge elbows, while 3.7kW to 7.5kW models are in cast iron with a flanged discharge bend (which is included). For abrasion resistance, mechanical seals are in silicon carbide, which are double in models from 0.75kW and above. All have 410 stainless steel shafts for enhanced durability. Quality of build, high quality components and a wide range of motor sizes, this range has an economic price tag making it popular in commercial and industrial applications. Suitable for the pumping of clean and dirty water. **KST** models are supplied with 20 metres of heavy duty rubber power cable, **KS-05** have 10 metres.



item code	model	Manual or Auto	outlet (mm)/BPSF	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
15-10-1065	KST-05	M	50	0.4	400	260	10	5	156x226x340	14.50	250.00	1
15-10-1061	KST-08	M	50	0.75	400	380	13	6	175x285x457	21.20	329.00	1
15-10-1020	KST-20	M	80	1.5	400	600	16	9	205x375x530	31.00	539.00	1
15-10-1010	KST-30	M	80	2.2	400	800	18	11	255x465x535	42.50	727.00	1
15-10-1011	KST-50	M	4"	3.7	400	1000	21	11	255x465x565	48.30	1,020.00	1
15-10-1103	KST-75	M	4"	5.5	400	1300	23	11	330x570x700	60.10	1,696.00	1
15-10-1079	KST-100	M	6"	7.5	400	1600	25	11	330x570x720	70.40	1,858.00	1



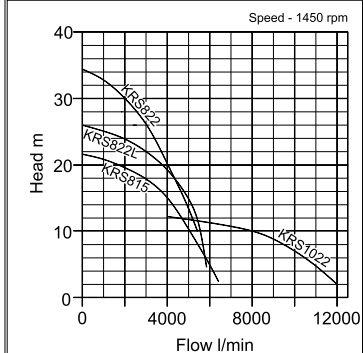
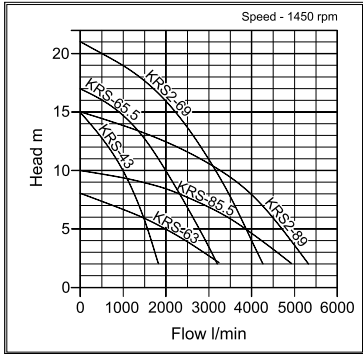
KRS

3 PHASE

- Mines & quarries
- Construction
- Hire fleets
- Tunnelling
- Industry
- Processing



KRS models are heavy duty drainage pumps that incorporate specifically designed 4 pole motors to provide excellent solids handling capabilities and wear resistance, in those applications where very large volumes of water, containing sand and silt in suspension, need to be moved rapidly. The design incorporates a cast iron pump casing, motor frame and a ductile iron impeller. The heavy duty motor is fitted with internal overloads, which enables simple installation and direct connection to the power supply. The 420 stainless steel shaft is fitted with an ultra hardwearing double mechanical seal (inboard: silicon carbide-silicon carbide) which runs in an oil chamber that has an oil lifter for positive seal lubrication in any position. This feature, combined with the water and air cooling channel to the top outlet, allows the pump to operate for extended periods with little or no water. Maintenance is straightforward, with the simple replacement of wearing parts without the need for a workshop or even special tools. All models are supplied with 20 metres of heavy duty rubber power cable although IDS (individually screened cable) is available, at an extra cost, on most models, for quarry and mining applications. Sacrificial anodes are also available (price on request).



item code	model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
10-10-1128	KRS-43	M	100	3	400	1820	15	12	347x378x651	95	2,694.00	1
10-10-1168	KRS-63	M	150	3	400	3250	8	15	365x385x777	95	2,925.00	1
10-10-1116	KRS-65.5	M	150	5.5	400	3200	17	20	369x423x698	115	3,566.00	1
10-10-1015	KRS2-69	M	150	9	400	4250	21	20	424x487x743	155	4,380.00	1
10-10-1060	KRS-85.5	M	200	5.5	400	4900	10	20	413x445x800	125	3,720.00	1
10-10-1063	KRS2-89	M	200	9	400	5300	15	30	403x470x814	175	4,913.00	1
10-10-1054	KRS815	M	200	15	400	6400	21	25	440x481x949	235	5,537.00	1
10-10-1079	KRS822	M	200	22	400	5300	34	25	530x572x1156	390	8,405.00	1
10-10-1194	KRS822L	M	200	22	400	5850	26	25	530x572x1156	390	8,808.00	1
10-10-1228	KRS1022	M	250	22	400	12000	12	25	Ø520x1439	450	12,242.00	1

LH-W

HIGH HEAD

- Mines & quarries
- Construction
- Hire fleets
- Tunnelling
- Deep excavations

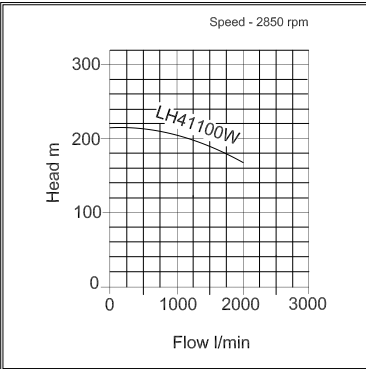
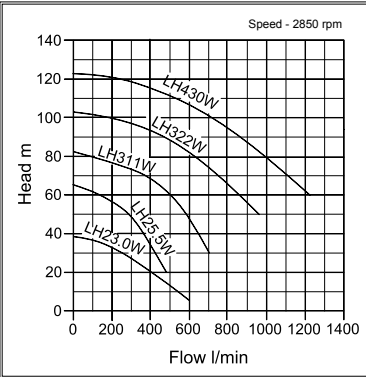


The LH-W and LH are heavy-duty, high head pumps that provide exceptional wear resistance and outstanding performance in the toughest civil engineering or dewatering projects. With a pump casing constructed of hard ductile iron and motor frame in cast iron, the centre discharge design reduces the base area size and facilitates locating and positioning in confined spaces. This design also enables efficient motor cooling when pumping small amounts of water or even during dry running conditions. The heavy duty motor is fitted with internal overloads, enabling simple installation and direct connection to the power supply. The 420 stainless steel shaft is fitted with an ultra hardwearing double mechanical seal (inboard: silicon carbide-silicon carbide) – which runs in an oil chamber – and a chromium iron impeller. This has high water pressure resistance to permit operating in water up to 30 metres deep. In addition, an oil lifter is fitted to maintain seal lubrication during operation in any position. Supplied with 20 metres of heavy duty rubber power cable, although IDS (individually screened cable) is available on most models (at an extra cost) for quarry and mining applications.



LH23.0W

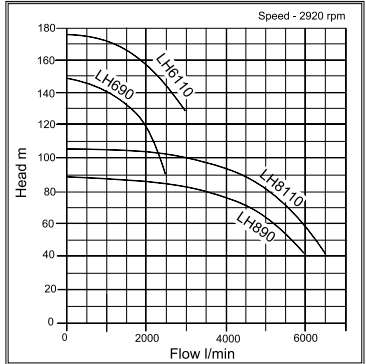
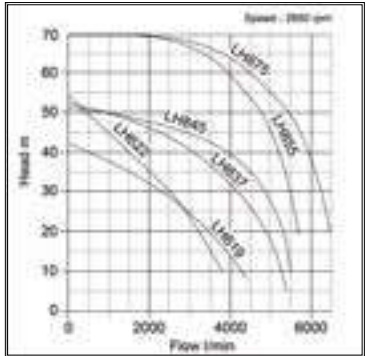
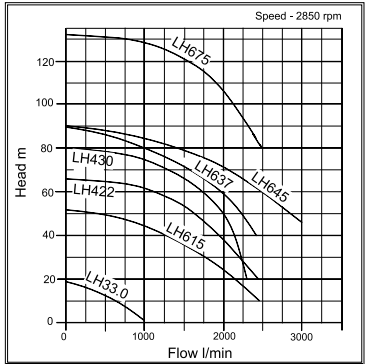
item code	model	Manual or Auto	outlet (BSPM/flange)	kW	volt	flow (l/min)	head (mtrs)	max. water depth (mtrs)	free passage (mm)	dia x h (mm)	dry weight (kgs)	Price (£)	code
10-10-1142	LH23.0W	M	2"	3	400	600	39	25	6	Ø185x630	46	2,415.00	1
10-10-1221	LH25.5W	M	2"	5.5	400	480	65	25	6	Ø240x750	80	3,989.00	1
10-10-1217	LH311W	M	80mm	11	400	700	82	30	8.5	Ø270x1024	130	7,467.00	1
10-10-1039	LH322W	M	80mm	22	400	940	102	30	8.5	Ø330x1235	304	14,356.00	1
10-10-1012	LH430W	M	100mm	30	400	1230	123	30	8.5	Ø330x1375	324	P.O.A	1
10-10-1030	LH4110W	M	100mm	110	400	2000	216	30	8.5	Ø616x1825	1270	P.O.A	1



LH

HIGH HEAD

- Mines & quarries
- Construction
- Hire fleets
- Tunnelling
- Deep excavations



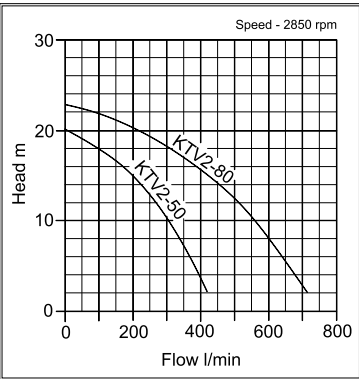
LH622

item code	model	Manual or Auto	outlet (BSPM/flange)	kW	volt	flow (l/min)	head (mtrs)	max. water depth (mtrs)	free passage (mm)	dia x h (mm)	dry weight (kgs)	Price (£)	code
10-10-1182	LH33.0	M	3"	3	400	1000	18	30	6	Ø185x645	42	2,463.00	1
10-10-1021	LH615	M	150mm	15	400	2400	52	30	6	Ø330x1014	213	7,278.00	1
10-10-1043	LH619	M	150mm	19	400	4400	42	30	12	Ø420x1352	350	10,303.00	1
10-10-1112	LH422	M	100mm	22	400	2400	66	30	6	Ø420x1352	350	9,937.00	1
10-10-1155	LH622	M	150mm	22	400	3800	54	30	12	Ø420x1352	360	10,004.00	1
10-10-1076	LH430	M	100mm	30	400	2300	80	30	6	Ø420x1352	355	P.O.A	1
10-10-1174	LH637	M	150mm	37	400	2375	90	30	6	Ø530x1448	495	P.O.A	1
10-10-1123	LH837	M	200mm	37	400	5400	52	30	20	Ø530x1488	495	P.O.A	1
10-10-1151	LH645	M	150mm	45	400	3000	90	30	6	Ø530x1448	510	P.O.A	1
10-10-1061	LH845	M	200mm	45	400	5500	52	30	20	Ø530x1488	510	P.O.A	1
10-10-1180	LH855	M	200mm	55	400	5670	70	30	20	Ø550x1716	820	P.O.A	1
10-10-1180	LH675	M	150mm	75	400	2440	132	30	6	Ø550x1676	865	P.O.A	1
10-10-1011	LH875	M	200mm	75	400	6500	70	30	20	Ø550x1716	865	P.O.A	1
10-10-1140	LH690	M	150mm	90	400	2455	149	30	6	Ø595x1787	1100	P.O.A	1
10-10-1103	LH890	M	200mm	90	400	6000	89	30	20	Ø595x1787	1150	P.O.A	1
10-10-1106	LH6110	M	150mm	110	400	2960	178	30	6	Ø595x1787	1200	P.O.A	1
10-10-1197	LH8110	M	200mm	110	400	6460	106	30	20	Ø595x1787	1250	P.O.A	1

KTV2

AGITATOR

- Mines & quarries
- Construction
- Hire fleets
- Transfer
- Industry
- Processing



KTV2-50

item code	model	Manual or Auto	outlet (BSPM & mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
10-10-1227	KTV2-50	M	2" & 50	2	400	425	20	10	250x250x454	24	1,988.00	1
10-10-1146	KTV2-80	M	3" & 80	3	400	725	23	10	295x295x550	37	2,462.00	1



The **KTD** are heavy-duty drainage pumps which offer excellent wear resistance for maximum durability, with minimum maintenance, during prolonged operation in the severest conditions. Fitted with semi-open type impellers, in chromium iron, pump chambers and casings in grey cast iron and suction covers in ductile iron. Each model has a built in agitator, also in chromium iron, to stir sand, bentonite, pulverized solids etc. into suspension for pumping. The heavy duty motors are fitted with internal overloads, enabling simple installation and direct connection to the power supply. The 420 stainless steel shafts are fitted with ultra hardwearing, double mechanical seals (inboard: silicon carbide-silicon carbide), in an oil chamber, with oil lifters, for positive seal lubrication in any position. This feature, combined with the water and air cooling channel to the top outlet, enables these pumps to operate for extended periods in little or no water. Maintenance is straightforward, with the simple replacement of wearing parts without the need for a workshop or even special tools.

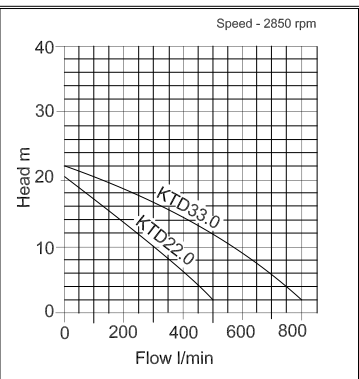
Both models are supplied with 20 metres of heavy duty rubber power cable. Supplied with a threaded outlet and a hose connector.



KTD22.0

item code	model	Manual or Auto	outlet (BSPM & mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
10-10-1199	KTD22.0	M	2" & 50	2	400	500	20	8.5	235x221x519	38	1,815.00	1
10-10-1229	KTD33.0	M	3" & 80	3	400	800	22	8.5	297x266x654	65	2,252.00	1

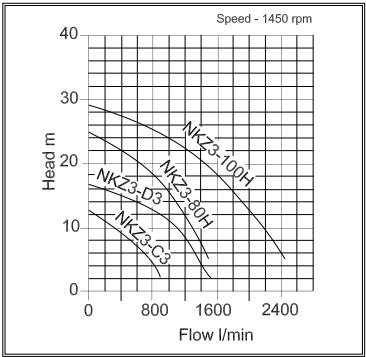
- Mines & quarries
- Construction
- Hire fleets
- Transfer
- Industry
- Processing



NKZ

AGITATOR

- Mines & quarries
- Construction
- Hire fleets
- Transfer
- Industry
- Processing



NKZ models are heavy duty drainage pumps, capable of large flows, which incorporate specifically designed 4 pole motors for wear resistance. The side discharge, spiral design and the rotating agitator facilitate the passage of sand, pulverized solids etc. without clogging. The design incorporates a motor frame and pump casing in grey cast iron. The 2.2 kW and 3.7kW pumps have impellers in ductile iron while 5.5kW and 11kW pumps are in chromium iron. The 2.2 kW and 3.7kW pumps have suction covers in grey cast iron while 5.5kW and 11kW pumps are in ductile iron. Heavy duty motors are fitted with internal overloads, which enable simple installation and direct connection to the power supply. Each model has a 420 stainless steel shaft is fitted with an ultra-hard wearing, double mechanical seal (inboard: silicon carbide-silicon carbide) in an oil chamber that has an oil lifter for positive seal lubrication in any position. The water and air cooling channel of the top outlet design allows the pump to operate for extended periods with little or no water. Maintenance is straightforward, with simple replacement of wearing parts without the need for a workshop or even special tools.

All models are supplied with 20 metres of heavy duty rubber power cable although IDS (individually screened cable) is available, at an extra cost, on most models, for quarry and mining applications. Each model is supplied with a hose connector in cast iron.



NKZ3-C3

item code	model	Manual or Auto	outlet (BSPM)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
10-10-1209	NKZ3-C3	M	3"	2.2	400	930	12.6	30	467x370x664	91	3,336.00	1
10-10-1009	NKZ3-D3	M	3"	3.7	400	1540	17.0	30	467x370x664	100	3,630.00	1
10-10-1018	NKZ3-80H	M	3"	5.5	400	1530	24.9	20	491x401x754	132	4,662.00	1
10-10-1205	NKZ3-100H	M	4"	11.0	400	2440	28.8	20	547x414x841	196	6,405.00	1



KRS2 models are heavy duty drainage pumps, capable of large flows, which incorporate specifically designed 4 pole motors and a built in agitator, to stir sand, bentonite, pulverized solids etc. into suspension for pumping. The design incorporates a motor frame and pump casing in grey cast iron, with the suction cover and impeller in chromium iron. Heavy duty motors are fitted with internal overloads, which enable simple installation and direct connection to the power supply. The 420 stainless steel shaft is fitted with an ultra-hard wearing, double mechanical seal (inboard: silicon carbide-silicon carbide) in an oil chamber that has an oil lifter for positive seal lubrication in any position. The water and air cooling channel of the top outlet design allows the pump to operate for extended periods with little or no water. Maintenance is straightforward, with simple replacement of wearing parts without the need for a workshop or even special tools.

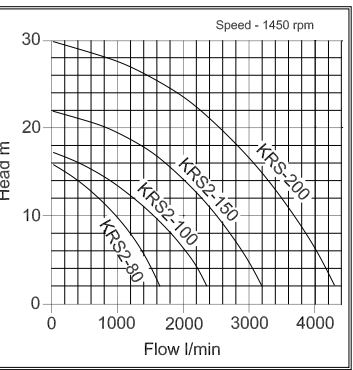
All models are supplied with 20 metres of heavy duty rubber power cable although IDS (individually screened cable) is available, at an extra cost, on all models, for quarry and mining applications. Each model is supplied with a hose connector in cast iron.



KRS2-100

item code	model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
10-10-1212	KRS2-80	M	80	4	400	1670	16	30	326x350x780	105	3,901.00	1
10-10-1001	KRS2-100	M	100	6	400	2350	17	30	373x415x773	145	4,365.00	1
10-10-1240	KRS2-150	M	150	9	400	3250	22	30	407x433x830	170	5,169.00	1
10-10-1239	KRS2-200	M	200	18	400	4300	31	30	530x576x1181	395	14,158.00	1

- Mines & quarries
- Construction
- Hire fleets
- Transfer
- Industry
- Processing



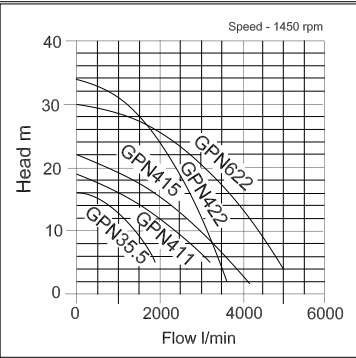
KRS2

AGITATOR

GPN

AGITATOR

- Mines & quarries
- Construction
- Hire fleets
- Transfer
- Industry
- Processing



item code	model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
10-10-1248	GPN35.5	M	80	5.5	400	1900	16	30	487x390x777	145	4,465.00	1
10-10-1107	GPN411	M	100	11	400	3250	19	30	617x450x860	217	6,399.00	1
10-10-1152	GPN415	M	100	15	400	4110	22	30	617x451x860	220	8,970.00	1
10-10-1008	GPN422	M	100	22	400	3700	34	30	725x572x1102	415	15,842.00	1
10-10-1165	GPN622	M	150	22	400	5000	30	30	725x572x1102	415	15,842.00	1

GPN35.5



item code	model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
10-10-1248	GPN35.5	M	80	5.5	400	1900	16	30	487x390x777	145	4,465.00	1
10-10-1107	GPN411	M	100	11	400	3250	19	30	617x450x860	217	6,399.00	1
10-10-1152	GPN415	M	100	15	400	4110	22	30	617x451x860	220	8,970.00	1
10-10-1008	GPN422	M	100	22	400	3700	34	30	725x572x1102	415	15,842.00	1
10-10-1165	GPN622	M	150	22	400	5000	30	30	725x572x1102	415	15,842.00	1

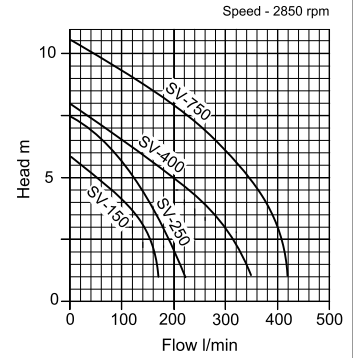
GPN35.5



SV

SOLIDS: 27mm to 37mm

- Cellars
- Sumps
- Dirty water
- Hire fleet
- Light sewage
- Effluent



The SV series is a range of portable, submersible pumps with vortex impellers, cast iron pump casings and 304 stainless steel motor frames.

The SV-150 and SV-250, with thermoplastic motorhead covers and impellers, offer free passage of suspended soft solids and fibrous material up to 27mm. These models have 410 stainless steel shafts, with a carbon ceramic mechanical seal, with single lip seal, in an oil chamber. They are suitable for a variety of domestic and industrial applications.

The SV-400 has a thermoplastic motor head cover while the SV-750 is in cast iron. Both these larger models feature cast iron impellers for fibrous material and hard solids from 35mm to 37mm. These two models have been designed for portable use as hire fleet pumps for the pumping of site water hence they have cast iron protective base plates and 410 stainless steel shafts, with a silicon carbide mechanical seal (complete with a lip seal) in an oil chamber. With excellent durability, at an economic price, they are suitable for a variety of heavy duty applications. A 89mm lever lock connection kit, with a galvanised iron extension pipe, is an optional extra.

All versions are available with optional pendant type float switches. SV-150V has a tube type float switch for narrow sump applications.

SV pumps are not recommended for ponds or water features. All models are supplied with 10 metres of heavy duty rubber power cable.



SV-150A

SV-150V

SV-400

item code	model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
15-10-1050	SV-150A	A	32	0.15	230	170	5.7	27	200x205x390	8.00	160.00	4
15-10-1048	SV-150V	A(V)	32	0.15	230	170	5.7	27	200x205x390	8.00	165.00	4
15-10-1043	SV-250	M	32	0.25	230	220	7.5	27	145x205x390	9.20	183.00	4
15-10-1057	SV-250A	A	32	0.25	230	220	7.5	27	145x205x390	9.45	203.00	4
15-10-1018	SV-400	M	50	0.4	110	350	9	35	160x215x420	11.30	230.00	2
15-10-1028	SV-400	M	50	0.4	230	350	9	35	160x215x420	11.30	230.00	2
15-10-1070	SV-400A	A	50	0.4	110	350	9	35	160x215x420	11.55	260.00	2
15-10-1023	SV-400A	A	50	0.4	230	350	9	35	160x215x420	11.55	260.00	2
15-10-1081	SV-750	M	80	0.75	110	420	11	37	165x265x440	17.15	347.00	2
15-10-1016	SV-750	M	80	0.75	230	420	11	37	165x265x440	17.15	347.00	2
15-10-1031	SV-750A	A	80	0.75	110	420	11	37	165x265x440	17.40	383.00	2
15-10-1083	SV-750A	A	80	0.75	230	420	11	37	165x265x440	17.40	383.00	2
26-85-1000	SV750 3"/89mm Lever lock connection kit (male c/w male BSP lever lock coupling, galvanised pipe nipple, galvanised socket (pt no:130080-LLK)										66.00	2

PU

SOLIDS: 35mm

- Industry
- Processing
- Light sewage
- Final effluent
- Fixed installations
- Water features

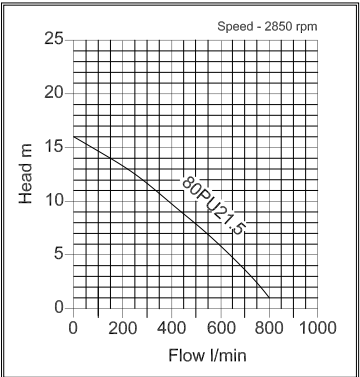
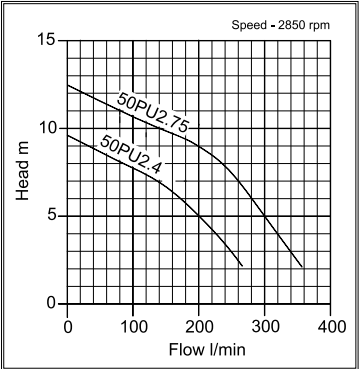


The **PU** series of sewage pumps, have 304 stainless steel motor frames and thermoplastic upper and lower casings for excellent corrosion and wear resistant performance. For ultimate safety, and to conform to Water Authority recommendations, all automatic versions have an integral transformer to give low voltage (24V) at the float end. The floats have a rounded shape to minimise false starting of the motor caused by water turbulence. Long term, trouble free operation is enhanced further with an integrated vent valve to prevent air locking. The 403 stainless steel shaft is fitted with an ultra hardwearing double mechanical seal (inboard: silicon carbide-silicon carbide) – running in an oil chamber and a vortex, thermoplastic impeller, giving excellent performance when pumping suspended soft solids and fibrous material. An auto-coupling set is available as an optional extra to allow the fitting of guide rails on all models. (See page 59).The high specification makes these units suitable for use by utilities and industry for portable use or fixed installations. Supplied with 10 metres of heavy duty rubber power cable.



50PUA2.4S

50PU2.4S



item code	model	Manual or Auto	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	on level (mm)	off level (mm)	Price (£)	code
10-10-1005	50PU2.4S	M	2"	0.40	110	270	9.5	35	162x236x360	-	-	515.00	1
10-10-1070	50PU2.4S	M	2"	0.40	230	270	9.5	35	162x236x360	-	-	515.00	1
10-10-1086	50PUA2.4S	A	2"	0.40	110	270	9.5	35	173x236x374	607	115	649.00	1
10-10-1120	50PUA2.4S	A	2"	0.40	230	270	9.5	35	173x236x374	607	115	649.00	1
10-10-1156	50PU2.4	M	2"	0.40	400	270	9.5	35	162x236x360	-	-	515.00	1
10-10-1164	50PUA2.4	A	2"	0.40	400	270	9.5	35	173x236x374	607	115	649.00	1
10-10-1189	50PU2.75S	M	2"	0.75	230	355	12.5	35	162x236x380	-	-	581.00	1
10-10-1139	50PUA2.75S	A	2"	0.75	230	355	12.5	35	173x236x394	627	115	727.00	1
10-10-1153	50PU2.75	M	2"	0.75	400	355	12.5	35	162x236x374	-	-	581.00	1
10-10-1111	50PUA2.75	A	2"	0.75	400	355	12.5	35	173x236x388	621	115	727.00	1
10-10-1235	80PU21.5	M	3"	1.50	400	800	16.0	35	295x196x475	-	-	987.00	1
Optional item 1: auto-coupling TOK-4P (motor sizes 0.40kW to 0.75kW)												190.00	1
Optional item 1: auto-coupling TOK2-65 (motor size 1.50kW)												292.00	1



BCV

SOLIDS: 50mm to 80mm

- Agriculture
- Industry
- Sewage treatment
- Pumping stations

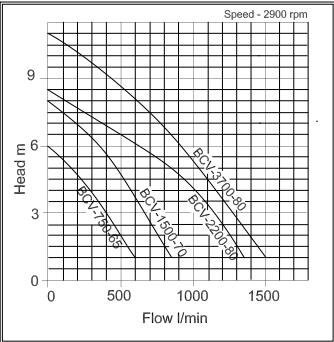
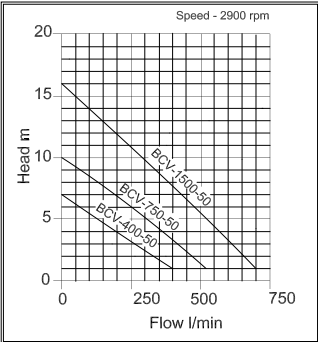


The **BCV** sewage pumps have vortex impellers within wide pump casings for pumping waste containing fibrous material and suspended solids from 50mm to 80mm. All models feature cast iron pump casings, impellers and head covers, except the **BCV400** which has a thermoplastic head cover. For increased wear resistance they have 410 stainless steel shafts with double mechanical seals (inboard: silicon carbide-silicon carbide) in an oil chamber. Quality of build, large free passage, massive flow and good head all incorporated at a cost effective price make this range popular in commercial and agricultural applications. They are not, however, recommended for ponds or water features. 0.40kW and 0.75kW have a one piece volute and outlet for free standing applications only, while the models 1.5kW to 3.7kW have a flanged outlet bend(which is included) to enable freestanding use or connection to a guide hook for guide rail applications. An auto-coupling kit, for guide rail use, is an optional extra (see page 60). This includes a pedestal, guide hook and top bracket, but not rails. Supplied with 10 metres of heavy duty rubber power cable.



BCV-1500A

BCV-400A



item code	model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code	optional item 1 auto-coupling
15-10-1041	BCV-400-50	M	50	0.40	110	380	7.5	50	146x222x430	11.7	287.00	1	n/a
15-10-1003	BCV-400-50	M	50	0.40	230	380	7.5	50	146x222x430	11.7	287.00	1	n/a
15-10-1088	BCV-400-50	M	50	0.40	400	380	7.5	50	146x222x430	11.7	287.00	1	n/a
15-10-1071	BCV-400-50A	A	50	0.40	110	380	7.5	50	146x222x430	11.8	310.00	1	n/a
15-10-1102	BCV-400-50A	A	50	0.40	230	380	7.5	50	146x222x430	11.8	310.00	1	n/a
15-10-1025	BCV-750-50	M	50	0.75	110	520	10	50	170x270x510	17.9	389.00	1	n/a
15-10-1100	BCV-750-50	M	50	0.75	230	520	10	50	170x270x510	17.9	389.00	1	n/a
15-10-1017	BCV-750-50	M	50	0.75	400	520	10	50	170x270x510	17.9	389.00	1	n/a
15-10-1024	BCV-750-50A	A	50	0.75	110	520	10	50	170x270x510	18.2	410.00	1	n/a
15-10-1080	BCV-750-50A	A	50	0.75	230	520	10	50	170x270x510	18.2	410.00	1	n/a
15-10-1014	BCV-750-65	M	3"	0.75	230	590	6	65	200x370x550	23.6	489.00	1	TOS-S3
15-10-1045	BCV-750-65	M	3"	0.75	400	590	6	65	200x370x550	23.6	489.00	1	TOS-S3
15-10-1035	BCV-750-65A	A	3"	0.75	230	590	6	65	152x274x480	24.6	534.00	1	TOS-S3
15-10-1087	BCV-1500-50	M	3"	1.50	230	700	16	50	210x387x560	33.3	592.00	1	TOS-S3
15-10-1072	BCV-1500-50	M	3"	1.50	400	700	16	50	210x387x560	33.3	592.00	1	TOS-S3
15-10-1002	BCV-1500-50 A	A	3"	1.50	230	700	16	50	210x387x560	34.2	626.00	1	TOS-S3
15-10-1052	BCV-1500-70	M	3"	1.50	230	850	8	70	220x390x620	33.3	705.00	1	TOS-L3 & TOS-L4
15-10-1059	BCV-1500-70	M	3"	1.50	400	850	8	70	220x390x620	33.3	705.00	1	TOS-L3 & TOS-L4
15-10-1033	BCV-1500-70A	A	3"	1.50	230	850	8	70	220x390x620	34.2	748.00	1	TOS-L3 & TOS-L4
15-10-1075	BCV-2200-80	M	3"	2.20	230	1350	8.5	80	245x490x690	71.1	983.00	1	TOS-L3 & TOS-L4
15-10-1089	BCV-2200-80	M	3"	2.20	400	1350	8.5	80	245x490x690	71.1	983.00	1	TOS-L3 & TOS-L4
15-10-1051	BCV-2200-80A	A	3"	2.20	230	1350	8.5	80	245x490x690	72.0	1,047.00	1	TOS-L3 & TOS-L4
15-10-1037	BCV-3700-80	M	3"	3.70	400	1500	11	80	245x490x690	81.4	1,197.00	1	TOS-L3 & TOS-L4

UY

SOLIDS: 80mm to 100mm

- Industry
- Pumping stations
- Sewage treatment



UY Series



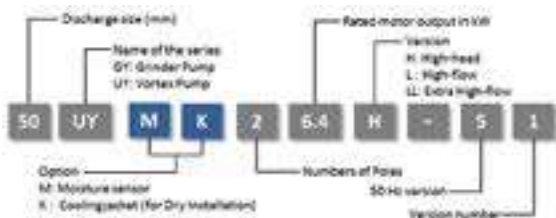
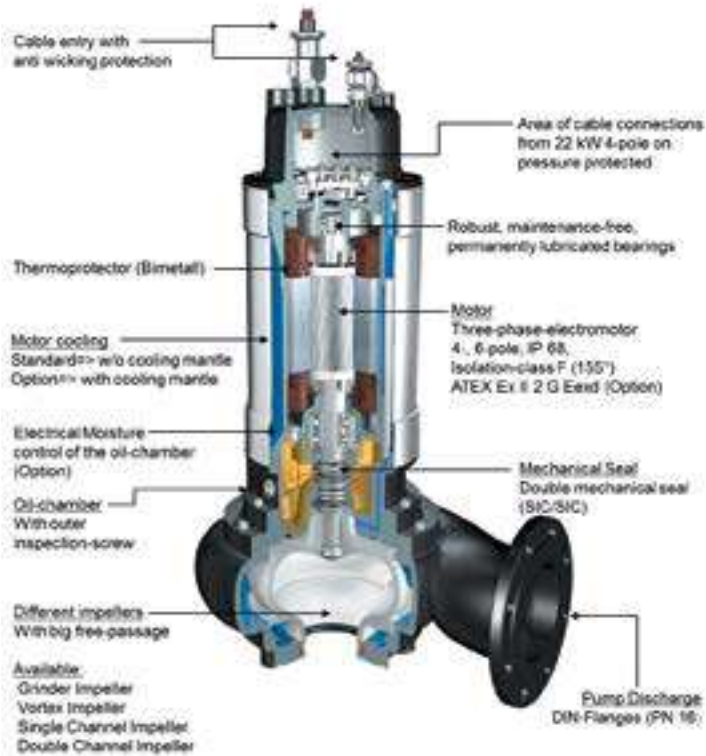
The **UY** series are vortex pumps by Tsurumi Manufacturing of Japan which form part of their new wastewater program expansion which will see their wastewater range double to 500 models. Motor sizes will range from 0.15kW up to 160kW.

The vortex impeller ensures that the wastewater can flow without clogging while pumping large or stringy material. Depending on their output, the motors are equipped with a capacitor, direct or star-delta starters. They have double slide ring seals on the inside, encapsulated ball bearings, thermal motor protection and individually cast electrical conductors.

Available options are dry mounting, oil chamber sensors, float switches (1 phase pumps only), ATEX and auto-coupling kits for guide rail mounting. They can also be combined with frequency converters to adapt to the mains supply.

The range currently available is summarised here. Please contact our sales department with details of your pumping application and we will offer our quotation accordingly.

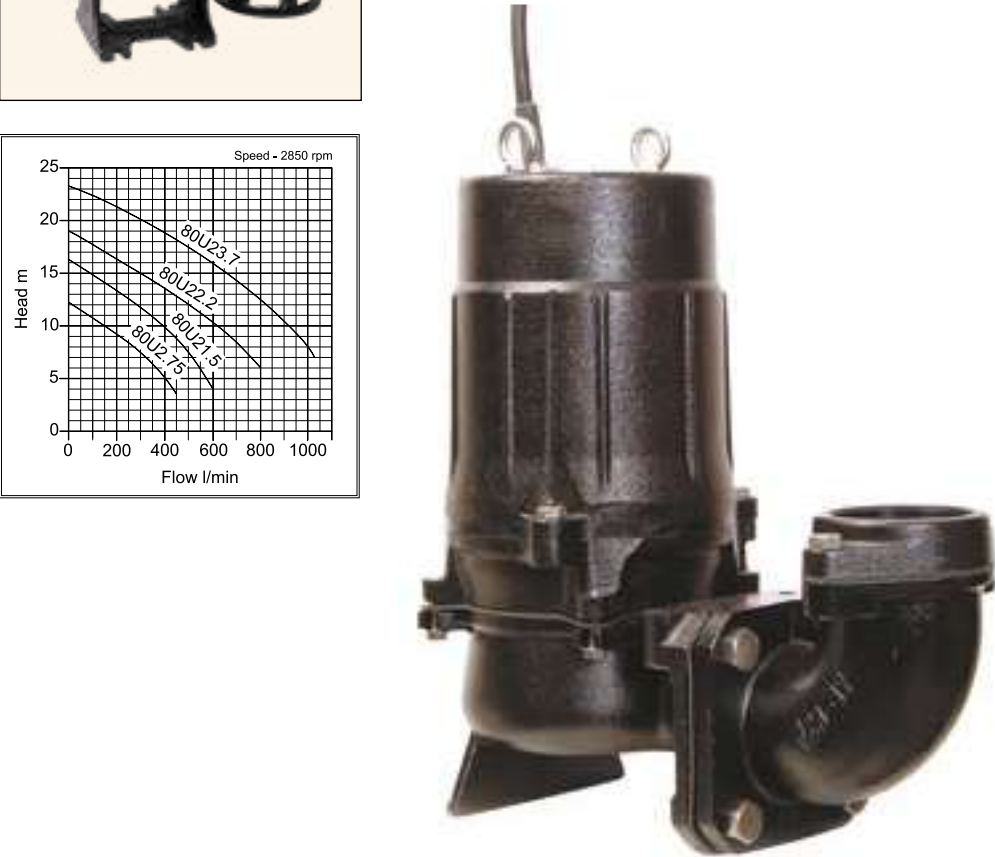
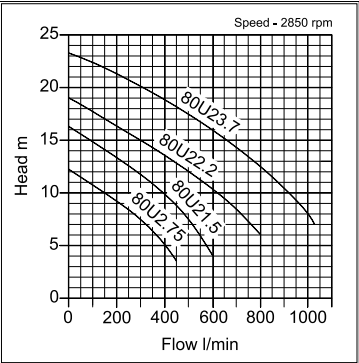
Coming soon: single channel impeller models.



80U2

SOLIDS: 46mm to 56mm

- Agriculture
- Industry
- Pumping stations
- Food processing



80U21.5
free-standing
(elbow is an optional extra)

item code	model	bore (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code	optional item 1 elbow	optional item 2 auto-coupling
10-10-1085	80U2.75	80	0.75	400	450	12	46	173x383x419	29	762.00	1	BEND 80	TOS3-65-80
10-10-1135	80U21.5	80	1.5	400	600	16	46	200x420x501	40	1,074.00	1	BEND 80	TOS3-65-80
10-10-1088	80U22.2	80	2.2	400	800	19	56	240x502x562	55	1,597.00	1	BEND 80	TOS3-65-80
10-10-1175	80U23.7	80	3.7	400	1025	23.5	56	234x502x565	62	1,950.00	1	BEND 80	TOS3-65-80



The **80U2** sewage pumps have vortex impellers, are of cast iron construction and provide excellent free passage for the uninterrupted flow of suspended solids and fibrous material found in municipal and industrial duties. They are particularly popular and effective in agricultural applications. Available in three-phase only. The 403 stainless steel shaft is fitted with an ultra hardwearing double mechanical seal (inboard: silicon carbide-silicon carbide), in an oil chamber. They are supplied with a bare delivery flange; elbows (for free-standing use) and auto-coupling sets (for guide rail applications), are optional extras (see page 59). Supplied with 10 metres of heavy duty rubber power cable.

When a Tsurumi sewage pump is being selected as a replacement for an existing Flygt pump installation, a guide hook adaptor is available as an optional extra (see page 59). This is suitable for use with all 3" and 4" sewage pumps and permits retro-fitting a Tsurumi to existing Flygt guide rail installations.



Flygt guide
hook adaptor
(optional extra)



UZ

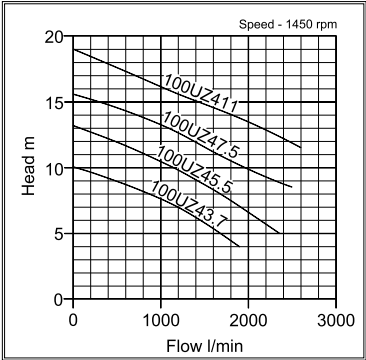
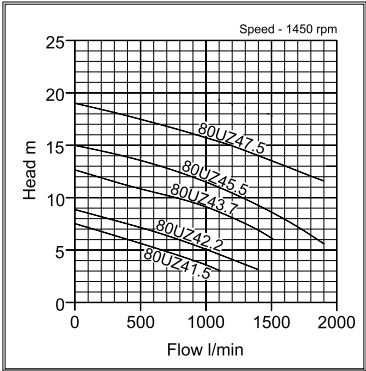
SOLIDS: 80mm to 100mm

- Agriculture
- Industry
- Pumping stations
- Sewage treatment



The **UZ** series of cast iron sewage pumps features a wide volute and a vortex impeller. These pumps have 4 pole motors to give improved longevity and wear resistance. The 11kW versions feature star-delta starting. They give solids handling up to 100mm and free passage of fibrous material, for efficient, reliable operation in pumping stations, sewage works and effluent processing. They are supplied with a bare delivery flange; elbows (for free-standing use) and auto-coupling sets (for guide rail applications), are optional extras (see page 59) The 403 stainless steel shaft is fitted with an ultra hardwearing double mechanical seal (inboard: silicon carbide-silicon carbide), in an oil chamber. Supplied with 10 metres of heavy duty rubber power cable.

When a Tsurumi sewage pump is being selected as a replacement for an existing Flygt pump installation, a guide hook adaptor is available as an optional extra (see page 59). This is suitable for use with all 3" and 4" sewage pumps and permits retro-fitting a Tsurumi to existing Flygt guide rail installations.



100UZ43.7
free-standing
(elbow is an optional extra)



Flygt guide
hook adaptor
(optional extra)

item code	model	bore (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code	optional item 1 elbow	optional item 2 auto-coupling
10-10-1190	80UZ41.5	80	1.5	400	1100	7.5	80	261x531x637	66	1,807.00	1	BEND 80 80	TOS3-80-80
10-10-1251	80UZ42.2	80	2.2	400	1400	9	80	261x531x637	66	1,881.00	1	BEND 80 80	TOS3-80-80
10-10-1198	80UZ43.7	80	3.7	400	1500	12.5	80	291x557x688	72	2,216.00	1	BEND 80 80	TOS3-80-80
10-10-1023	100UZ43.7	100	3.7	400	1900	10	100	314x628x737	79	2,216.00	1	BEND 100 100	TOS3-100-100
10-10-1034	80UZ45.5	80	5.5	400	1900	15	80	358x595x899	129	3,166.00	1	BEND 80 80	TOS3-80-80
10-10-1045	100UZ45.5	100	5.5	400	2350	13	100	358x652x939	145	3,166.00	1	BEND 100 100	TOS3-100-100
10-10-1099	80UZ47.5	80	7.5	400	1900	19	80	358x595x920	142	3,666.00	1	BEND 80 80	TOS3-80-80
10-10-1075	100UZ47.5	100	7.5	400	2500	15.5	100	358x652x960	158	3,666.00	1	BEND 100 100	TOS3-100-100
10-10-1048	100UZ411	100	11	400	2600	19	100	358x660x1021	178	5,122.00	1	BEND 100 100	TOS3-100-100

B

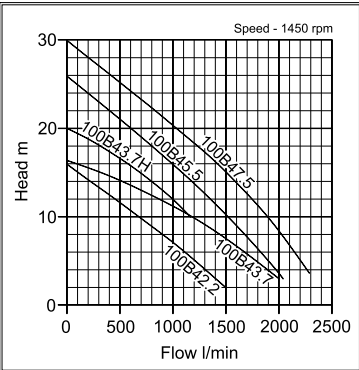
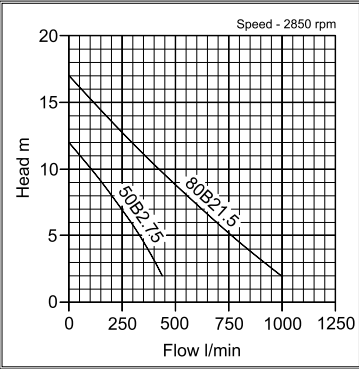
SOLIDS: 20mm to 53mm

- Industry
- Pumping stations
- Sewage treatment
- Food processing



The B series are single-channel impeller sewage pumps of a cast iron construction. They have excellent suspended solids handling and substantial flows and heads for use in municipal or industrial applications. Available in three phase only. The 403 (<1.5kW)/ 420 (>2.2kW) stainless steel shaft is fitted with an ultra hardwearing double mechanical seal (inboard: silicon carbide-silicon carbide), in an oil chamber. They are supplied with a bare delivery flange; elbows (for free-standing use) and auto-coupling sets (for guide rail applications), are optional extras (see page 59). Supplied with 10 metres of heavy duty rubber power cable.

When a Tsurumi sewage pump is being selected as a replacement for an existing Flygt pump installation, a guide hook adaptor is available as an optional extra (see page 59). This is suitable for use with all 3" and 4" sewage pumps and permits retro-fitting a Tsurumi to existing Flygt guide rail installations.



80B21.5
free-standing
(elbow is an optional extra)



Flygt guide
hook adaptor
(optional extra)

item code	model	bore (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code	optional item 1 elbow	optional item 2 auto-coupling
10-10-1121	50B2.75	50	0.75	400	440	12	20	250x405x436	25	799.00	1	BEND 50	TOS3-50
10-10-1117	80B21.5	80	1.5	400	1000	17	40	250x446x536	36	1,092.00	1	BEND 80	TOS3-80-80
10-10-1230	100B42.2	100	2.2	400	1500	16	45	331x569x616	70	1,817.00	1	BEND 80-100	TOS3-80-100
10-10-1211	100B43.7	100	3.7	400	2000	16	53	339x575x690	86	2,138.00	1	BEND 80-100	TOS3-80-100
10-10-1090	100B43.7H	100	3.7	400	1150	20	35	331x569x666	84	2,138.00	1	BEND 80-100	TOS3-80-100
10-10-1036	100B45.5	100	5.5	400	2050	26	40	400x687x824	147	3,229.00	1	BEND 100-100	TOS3-100-100
10-10-1025	100B47.5	100	7.5	400	2260	30	40	400x687x814	169	3,735.00	1	BEND 100-100	TOS3-100-100



The BZ sewage pumps are of cast iron construction and are fitted with shrouded single-channel impellers. This design provides substantial flows and enables the pump to pass 80mm solid particles without clogging, and provides reliable operation in pumping stations, sewage works and effluent processing. Pumping capacity exceeds many other pump brands of a similar design. These pumps have 4 pole motors to give improved longevity and wear resistance. The 11kW versions feature star-delta starting. Available in three-phase only. The 403 (<3.7kW)/ 420 (>5.5kW) stainless steel shaft is fitted with an ultra hardwearing double mechanical seal (inboard: silicon carbide-silicon carbide), in an oil chamber. They are supplied with a bare delivery flange; elbows (for free-standing use) and auto-coupling sets (for guide rail applications), are optional extras (see page 59). Supplied with 10 metres of heavy duty rubber power cable.

When a Tsurumi sewage pump is being selected as a replacement for an existing Flygt pump installation, a guide hook adaptor is available as an optional extra (see page 59). This is suitable for use with all 3" and 4" sewage pumps and permits retro-fitting a Tsurumi to existing Flygt guide rail installations.



Flygt guide
hook adaptor
(optional extra)

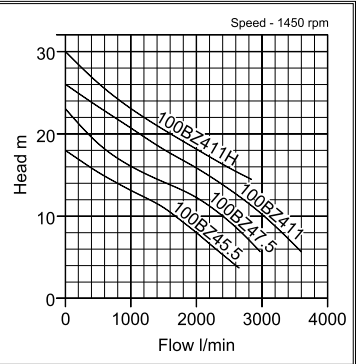
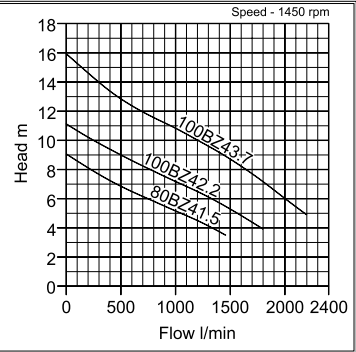


80BZ41.5
free-standing
(elbow is an optional extra)



- Industry
- Pumping stations
- Sewage treatment
- Food processing

SOLIDS: 80mm



item code	model	bore (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code	optional item 1 elbow	optional item 2 auto-coupling
10-10-1169	80BZ41.5	3"	1.50	400	1450	9	80	273x523x631	78	1,146.00	1	BEND 80	TOS3-80-80
10-10-1207	100BZ42.2	4"	2.20	400	1800	11	80	273x551x631	80	1,919.00	1	BEND 80-100	TOS3-80-100
10-10-1082	100BZ43.7	4"	3.70	400	2200	16	80	289x584x681	100	2,265.00	1	BEND 80-100	TOS3-80-100
10-10-1004	100BZ45.5	4"	5.50	400	2650	18	80	421x716x925	175	3,426.00	1	BEND 100-100	TOS3-100-100
10-10-1187	100BZ47.5	4"	7.50	400	2950	23	80	421x716x946	194	3,748.00	1	BEND 100-100	TOS3-100-100
10-10-1254	100BZ411H	4"	11.0	400	2850	30	80	431x727x1023	219	5,245.00	1	BEND 100-100	TOS3-100-100
10-10-1032	100BZ411	4"	11.0	400	3600	27	80	431x727x1023	219	5,245.00	1	BEND 100-100	TOS3-100-100

DSPK

1 & 3 PHASE CUTTER

- Domestic
- Industrial
- Basement systems
- Small pumping stations
- Foul waste tanks
- Fixed installations



DSPK-10A

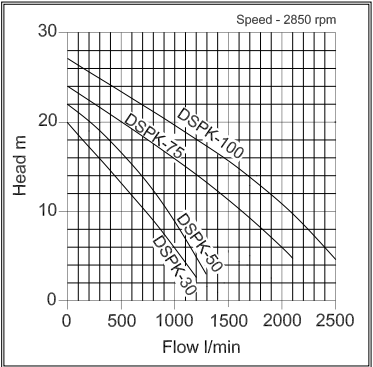
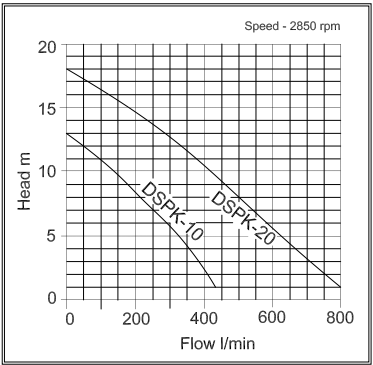
DSPK-20



The **DSPK** (formerly DSK) range of cutter pumps is for sewage and industrial applications where destructible solids need to be reduced to enable the reliable movement of the liquid.

They are constructed in cast iron and 304 stainless steel and are fitted with a tungsten carbide tipped, single channel, cast iron impeller which rotates against a serrated suction cover.

The 410 stainless steel shaft is fitted with a mechanical seal and oil seal, in an oil chamber. They are suitable for sewage in domestic and industrial applications, where the fragmented suspended solids are to be pumped over a short to medium distance. Supplied as standard free-standing, and optional auto coupling set is available for guide rail mounting. (see page 60). Single-phase models are available with or without a float switch. Supplied with 10 metres of heavy duty rubber power cable.



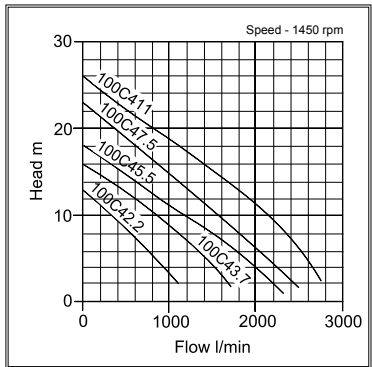
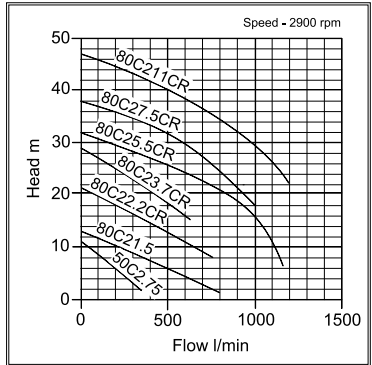
item code	model	Manual or Auto	outlet (mm)/ BSPF	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code	optional item 1 auto-coupling
15-10-1098	DSPK-10	M	50	0.75	110	430	13	20	183x250x487	21.0	463.00	1	TOS-SGH
15-10-1104	DSPK-10	M	50	0.75	230	430	13	20	183x250x487	21.0	463.00	1	TOS-SGH
15-10-1049	DSPK-10	M	50	0.75	400	430	13	20	183x250x487	21.0	463.00	1	TOS-SGH
15-10-1085	DSPK-10A	A	50	0.75	230	430	13	20	183x250x487	21.3	496.00	1	TOS-SGH
15-10-1063	DSPK-20	M	80	1.5	230	800	18	40	240x400x545	39.1	645.00	1	TOS-L3 & TOS-L4
15-10-1067	DSPK-20	M	80	1.5	400	800	18	40	240x400x545	39.1	645.00	1	TOS-L3 & TOS-L4
15-10-1029	DSPK-20A	A	80	1.5	230	800	18	40	240x400x546	39.6	682.00	1	TOS-L3 & TOS-L4
15-10-1015	DSPK-30	M	3"	2.2	400	1200	20	40	220x430x625	58.0	1,116.00	1	TOS-L3 & TOS-L4
15-10-1068	DSPK-50	M	3"	3.7	400	1300	22	40	430x430x655	60.0	1,158.00	1	TOS-L3 & TOS-L4
15-10-1078	DSPK-75	M	4"	5.5	400	2100	24	50	300x505x770	105.0	2,050.00	1	TOS-X4
15-10-1053	DSPK-100	M	4"	7.5	400	2500	27	65	300x505x815	117.0	2,330.00	1	TOS-X4



The **C** series, sewage cutter pumps are of a cast iron construction with a single channel, chromium iron impeller (with tungsten tips), which rotates against a serrated suction cover (in ductile iron) to cut solids before pumping.

They are suitable for effluent transfer, in municipal or industrial applications, where suspended solids need to be reduced in size. Available in three-phase only. The 403 (<1.5kW)/ 420 (>2.2kW) stainless steel shaft is fitted with an ultra hardwearing double mechanical seal (inboard: silicon carbide-silicon carbide), in an oil chamber. They are supplied with a bare delivery flange; elbows (for free-standing use) and auto-coupling sets (for guide rail applications), are optional extras (see page 59). Supplied with 10 metres of heavy duty rubber power cable.

When a Tsurumi sewage pump is being selected as a replacement for an existing Flygt pump installation, a guide hook adaptor is available as an optional extra (see page 59). This is suitable for use with all 3" and 4" sewage pumps and permits retro-fitting a Tsurumi to existing Flygt guide rail installations.



80C21.5
free-standing
(elbow is an optional extra)

item code	model	bore (mm)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code	optional item 1 elbow	optional item 2 auto-coupling
10-10-1126	50C2.75	50	0.75	400	340	11.5	21	250x405x415	24	813.00	1	BEND 50	TOS3-50
10-10-1046	80C21.5	80	1.5	400	800	13	37	250x446x536	36	1,111.00	1	BEND 80	TOS3-80-80
10-10-1047	80C22.2CR	80	2.2	400	750	21	20 x 31	260x519x611	70	1,784.00	1	BEND 80 80	TOSH-80
10-10-1232	100C42.2	100	2.2	400	1100	13	44	331x596x610	70	1,859.00	1	BEND 80-100	TOS3-80-100
10-10-1245	80C23.7CR	80	3.7	400	650	29	22 x 31	260x519x613	70	2,033.00	1	BEND 80 80	TOSH-80
10-10-1113	100C43.7	100	3.7	400	1700	16	60	333x599x690	86	2,185.00	1	BEND 80-100	TOS3-80-100
10-10-1246	80C25.5CR	80	5.5	400	1340	32	29 x 23	345x615x879	125	5,187.00	1	BEND 80 80	TOSH-80
10-10-1080	100C45.5	100	5.5	400	2290	18	40	400x687x824	140	3,168.00	1	BEND 100-100	TOS3-100-100
10-10-1081	80C27.5CR	80	7.5	400	1000	38	26 x 23	345x615x879	130	5,187.00	1	BEND 80 80	TOSH-80
10-10-1242	100C47.5	100	7.5	400	2500	23	40	400x687x814	159	3,670.00	1	BEND 100-100	TOS3-100-100
10-10-1243	80C211CR	80	11	400	1200	47	26 x 25	345x615x927	160	6,078.00	1	BEND 80 80	TOSH-80
10-10-1141	100C411	100	11	400	2750	26	50	431x710x1000	184	4,869.00	1	BEND 100-100	TOS3-100-100

*free-standing (including elbow)

C

3 PHASE CUTTER

- Industry
- Agriculture
- Pumping stations
- Sewage treatment



Flygt guide
hook adaptor
(optional extra)

GY

GRINDER

- Industry
- Pumping stations
- Sewage treatment



The 50GY series are grinder pumps by Tsurumi Manufacturing of Japan which form part of their new wastewater program expansion which will see their wastewater range double to 500 models. Motor sizes range from 0.15kW up to 160kW

The series comprises 12 electrical wastewater submersible pumps constructed in grey cast iron that can be installed free-standing or for guide rails. To ensure that the wastewater can flow without blockages, they use an open multi-vane impeller that turns at a speed of 2850 rpm. The grinder mechanism, with its stationary cutting ring and rotating blade, cuts the solids into very small pieces. This development, particularly for the larger models, enables the outlet diameter of the discharge to be only 50mm (2"). The cutting mechanism itself is a solid design made of just two parts and is therefore very maintenance-friendly. Depending on their output, the motors are equipped with a capacitor, direct or star-delta starters. They have double slide ring seals on the inside, encapsulated ball bearings, thermal motor protection and individually cast electrical conductors.

Available options are dry mounting, oil chamber sensors, float switches (1 phase pumps only), ATEX and auto-coupling kits for guide rail mounting. They can also be combined with frequency converters to adapt to the mains supply.

The range currently available is summarised here. Please contact our sales department with details of your pumping application and we will offer our quotation accordingly.



GY Series



model	outlet BSPM(mm)	Motor Output (kW)	volt	Poles	head (mtrs)	flow (l/min)	free passage (mm)	dry weight (kgs)	Length (mm)	Width (mm)	Height (mm)	Price (£)	code
50GY2.9-51	2"	0.9	400	2	20.80	330	-	33.0	461	190	496	P.O.A.	1
50GY21.1S-51	2"	1.1	230	2	20.40	312	-	31.7	461	190	496	P.O.A.	1
50GY21.5S-51	2"	1.5	230	2	30.50	195	-	38.5	501	223	618	P.O.A.	1
50GY21.6-51	2"	1.6	400	2	31.00	198	-	38.4	501	223	618	P.O.A.	1
50GY21.8S-51	2"	1.8	230	2	32.10	360	-	38.6	501	223	618	P.O.A.	1
50GY21.9-51	2"	1.9	400	2	33.00	353	-	38.5	501	223	618	P.O.A.	1
50GY23.1-51	2"	3.1	400	2	35.00	462	-	45.9	501	223	655	P.O.A.	1
50GY23.1H-51	2"	3.1	400	2	38.30	398	-	45.9	501	223	655	P.O.A.	1
50GY23.7-51	2"	3.7	400	2	46.70	355	-	57.4	533	250	695	P.O.A.	1
50GY24.4-51	2"	4.4	400	2	52.00	355	-	57.8	533	250	695	P.O.A.	1
50GYM26.4-51	50	6.4	400	2	42.00	512	-	107.2	732	297	771	P.O.A.	1
50GYM26.4H-51	50	6.4	400	2	52.00	512	-	107.5	732	297	771	P.O.A.	1
50GYM29.5-51	50	9.5	400	2	68.00	512	-	110.3	732	297	844	P.O.A.	1



OPTIONAL CONNECTIONS

BORE: 50MM to 100MM

- Guide rail
- Fixed installation
- Free standing
- Portable

Tsurumi discharge bends: in grey iron, square flange with a 90° elbow and female BSP outlet flange for free-standing applications. Supplied with fixings and gasket to join and seal the flange and fix it to the pump.

item code	type	Price (£)	Code
10-85-1003	Bend 50 (2" fBSP)	57.00	1
10-85-1008	Bend 80 (3" fBSP)	73.00	1
10-85-1009	Bend 80-80 (3" fBSP)	125.00	1
10-85-1006	Bend 80-100 (4" fBSP)	112.00	1
10-85-1001	Bend 100-100 (4" fBSP)	131.00	1



Bend 80

Tsurumi auto-couplings: in grey iron, for raising and lowering the pump without emptying the chamber, to ease inspection and maintenance. Set comprises guide support, guide hook, duck-foot bend and lifting chain. For dual rail installation.

item code	type	Price (£)	Code
10-85-1017	TOK4-P (2" fBSP)	190.00	1
10-85-1019	TOK2-65 (3" fBSP)	292.00	1
10-85-1002	TOS3-50 (2" fBSP)	328.00	1
10-85-1004	TOS3-65-80 (3" fBSP)	546.00	1
10-85-1011	TOS3-80-80 (3" fBSP)	429.00	1
10-85-1018	TOS3-80-80Y (3" fBSP)	717.00	1
10-85-1005	TOSH-80 (3" fBSP)	761.00	1
10-85-1015	TOS3-80-100 (4" fBSP)	474.00	1
10-85-1000	TOS3-100-100 (4" fBSP)	703.00	1



TOK4-P

TOS3-80-80

Flygt guide hook adaptors: manufactured by Tsurumi, grey cast iron, to enable the fitting of a Tsurumi sewage pump in an existing Flygt pumping station and avoid costly refitting.

item code	type	Price (£)	Code
10-85-1014	FLYGT ADAPTOR, 80 X 80 (3" X 3")	159.00	1
10-85-1012	FLYGT ADAPTOR, 80 X 100 (3" X 4")	186.00	1
10-85-1013	FLYGT ADAPTOR, 100 X 100 (4" X 4")	220.00	1



Adaptor

OPTIONAL CONNECTIONS

GUIDE RAIL KITS & FLANGES

- Guide rail
- Fixed installation
- Free standing
- Portable

APP auto-couplings: in grey iron, for raising and lowering the pump without emptying the chamber, to ease inspection and maintenance. Set comprises guide support, guide hook, duck-foot bend, female BSP outlet flange, with fixings and gaskets to join and seal the flanges. Single (TOS-G1) and dual rail installation. *TOS-X3 has a horizontal duck-foot to enable the elbow (and the fixings) from the pump to be utilised and not discarded. Alternative to TOS-L3 & TOS-L4.

item code	Code	Price (£)	Code
15-85-1006	TOS-G1 (1½" fBSP)	103.00	1
15-85-1001	TOS-SGH (2" fBSP)	193.00	1
15-85-1003	TOS-G3 (2½" fBSP)	203.00	1
15-85-1004	TOS-S3 (3" fBSP)	193.00	1
15-85-1008	TOS-X3* (3" fBSP)	193.00	1
15-85-1000	TOS-L3 (3" fBSP)	289.00	1
15-85-1002	TOS-L4 (4" fBSP)	289.00	1
15-85-1007	TOS-X4 (4" fBSP)	487.00	1



TOS-G1



TOS-S3



TOS-X3

Threaded flanges: DIN standard 2566 flange with female thread, PN10/16 in steel. Flange seals: PN10/16 in NBR.

part no	description	Price (£)	Code
13934003	DN40 x 1½" PCD110mm, Ø 16mm x 4 holes	33.00	1
13935003	DN50 x 2" PCD125mm, Ø 18mm x 4 holes	43.00	1
13936503	DN65 x 2½" PCD145mm, Ø 18mm x 4 holes	58.00	1
13938003	DN80 x 3" PCD160mm, Ø 20mm x 8 holes	71.00	1
139310003	DN100 x 4" PCD180mm, Ø 20mm x 8 holes	80.00	1

part no	description	Price (£)	Code
13944003	DN40 x 50mm x 92mm	3.20	1
13945003	DN50 x 61mm x 107mm	4.00	1
13946503	DN65 x 77mm x 127mm	4.90	1
13948003	DN80 x 90mm x 142mm	5.10	1
139410003	DN100 x 115mm x 162mm	5.70	1



GC

COMPACT GRINDER

- Domestic
- Light industrial
- Portability
- Basement systems
- Welfare units
- Portable sanitation



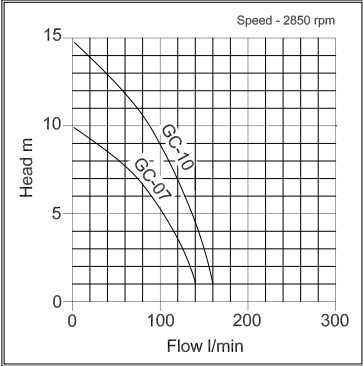
The GC-07 and GC-10 are innovative grinder pumps that are compact and incorporate a cutting system in a superior grade of stainless steel for excellent reliability. Designed for pumping sewage, containing fibrous material, into conventional drainage through a small bore pipe. Suitable for domestic and light industrial applications, where space, performance and price combine to be key areas of selection. The cutting system is in grade 440C stainless steel which provides the highest strength, hardness and wear resistance of all stainless alloys. The 410 stainless steel shaft has a double mechanical seal, while the strainer stand, motor head cover, motor frame and vortex impeller are in cast iron. Single phase motors have integral starting. Each model is supplied with 10 metres of heavy duty rubber power cable.



GC-07A



GC-10

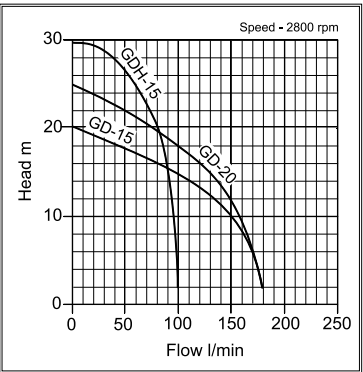


item code	model	Manual or Auto	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
15-10-1082	GC-07	M	32	0.38	230	140	10	170x215x340	12.9	299.00	1
15-10-1006	GC-07A	A	32	0.38	230	140	10	170x215x340	13.4	353.00	1
15-10-1101	GC-10	M	32	0.75	230	160	15	210x270x460	20.4	488.00	1
15-10-1084	GC-10	M	32	0.75	400	160	15	210x270x460	20.4	488.00	1
15-10-1055	GC-10A	A	32	0.75	230	160	15	210x270x460	20.8	543.00	1

GD • GDH

GRINDER

- Industry
- Agriculture
- Residential
- Pumping stations
- Fixed installations
- Sprinkling



The **GD** grinder pumps are of cast iron and 304 stainless steel construction. They are used in sewage stations and for servicing individual, or groups of, houses where drainage by gravity is not possible. They are ideally suited to applications where effluent is required to be pumped over a long distance, through a small bore pipe. The cutting mechanism is constructed of hard wearing chrome steel and is designed to pulverise sewage, soft solids or shreddable fibres. The high heads produced, with only limited horsepower motors, also make them suitable for agricultural disposal systems that feed sprinklers. In industrial applications, they are used for pumping fibrous material. The 410 stainless steel shaft has a double mechanical seal (in an oil chamber) in silicon carbide and carbon ceramic.

The models **GD-15** and **GD-20** are available free-standing or for guide rail mounting when supplied with the guide rail (auto-coupling) kit (see page 60). The **GDH-15** is available free standing only. Supplied with 10 metres of heavy duty rubber power cable.



item code	model	Manual or Auto	outlet BSPF	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code	optional item 1 auto-coupling
15-10-1077	GDH-15	M	1½"	1.1	230	100	30	240x170x510	25.75	599.00	1	n/a
15-10-1066	GDH-15	M	1½"	1.1	400	100	30	240x170x510	25.75	599.00	1	n/a
15-10-1060	GDH-15A	A	1½"	1.1	230	100	30	240x170x510	26.45	663.00	1	n/a
15-10-1001	GD-15A	A	1½"	1.1	230	210	20	240x185x520	28.35	664.00	1	TOS-G1
15-10-1027	GD-20	M	1½"	1.5	230	210	23	240x185x520	30.25	716.00	1	TOS-G1
15-10-1044	GD-20	M	1½"	1.5	400	210	23	240x185x520	30.25	716.00	1	TOS-G1
15-10-1021	GD-20A	A	1½"	1.5	230	210	23	240x185x520	30.7	748.00	1	TOS-G1



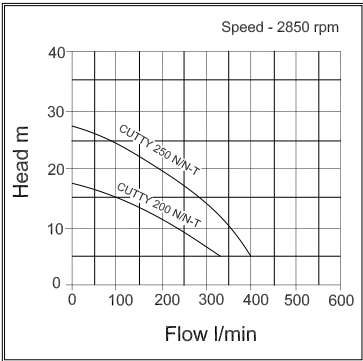
CUTTY

GRINDER

- Industry
- Agriculture
- Residential
- Pumping stations
- Fixed installations
- Sprinkling



The **CUTTY** series of grinder pumps are of cast iron construction. They are used in sewage stations and for servicing individual, or groups, of houses where drainage by gravity is not possible. They are ideally suited to applications where effluent is required to be pumped over a long distance, through a small bore pipe. They have cast iron impellers and cutting devices constructed in 304 stainless steel which are designed to pump and pulverise sewage, soft solids or shreddable fibres. The high heads produced, with only limited horsepower motors, also make them suitable for agricultural disposal systems that feed sprinklers. In industrial applications, they are used for pumping fibrous material. Each model has a 304 stainless steel shaft with a double mechanical seal (ceramic/graphite/NBR & silicon/silicon/NBR). Single phase models are supplied with an external starter box. They are available free-standing or for guide rail mounting when supplied with the auto-coupling accessory. Supplied with 10 metres of heavy duty rubber power cable.



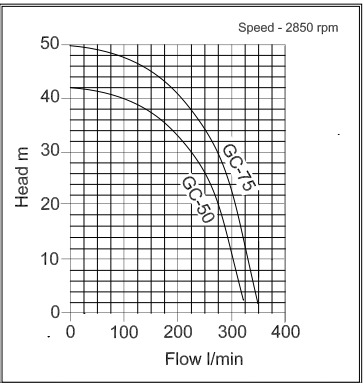
item code	model	Manual or Auto	outlet FBSP	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-10-1005	CUTTY 200/N	M	1½"	1.5	230	340	17	206x300x446	27	945.00	1
19-10-1002	CUTTY 200/N-T	M	1½"	1.5	400	340	17	206x300x446	27	718.00	1
19-10-1004	CUTTY 250/N	M	1½"	1.85	230	400	27	206x300x468	38	1,041.00	1
19-10-1000	CUTTY 250/N-T	M	1½"	1.85	400	400	27	206x300x468	38	814.00	1
19-85-1000	Optional item 1: auto-coupling									141.00	1

GC



HIGH HEAD GRINDER

- Industry
- Agriculture
- Residential
- Pumping stations
- Fixed installations
- Sprinkling



The GC-50 and GC-75 series of grinder pumps are of cast iron construction. They are used in sewage stations and for servicing groups of houses where drainage by gravity is not possible. They are ideally suited to applications where effluent is required to be pumped over a long distance, through a small bore pipe. The high heads produced, with only limited horsepower motors, also make them suitable for agricultural disposal systems that feed sprinklers. In industrial applications, they are used for pumping fibrous material. The pump stand, motor head cover, motor frame and vortex impeller are in cast iron. The 410 stainless steel shaft has a double mechanical seal (in an oil chamber). They are free-standing or for guide rail mounting when supplied with the auto-coupling accessory (see page 60). Supplied with 10 metres of heavy duty rubber power cable.



GC-50

item code	model	Manual or Auto	outlet BSPF	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code	optional item 1 auto-coupling
15-10-1106	GC-50	M	2½"	3.8	400	330	42	270x300x810	80	1,410.00	1	TOS-G3
15-10-1040	GC-75	M	2½"	5.6	400	350	50	270x300x810	88	1,806.00	1	TOS-G3

We stock a comprehensive range of drainage and sewage pumps accessories to make your system complete.

ESSENTIALS

ALWAYS IN STOCK

FLYGT GUIDE HOOK ADAPTORS



59

THREADED FLANGES



60

FLOAT SWITCHES



75

CONTROL PANELS



76-77

FLEXIBLE HOSE



160

GATE VALVES



173

SWING CHECK VALVES



174

PVC PRESSURE PIPE



178

PVC FITTINGS

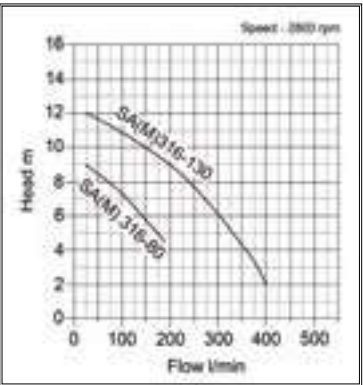


178-180

SA(M)

316 STAINLESS STEEL

- Industry
- Marine
- Processing
- Seawater



NEW

SEAWATER



SAM 316-80

item code	model	Manual or Auto	outlet BSPF	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-10-1007	SAM 316-80/S	A	2"	0.60	230	200	9	35	154x237x427	18.0	1,067.00	1
19-10-1008	SA 316-80	M	2"	0.60	400	200	9	35	155x237x427	18.0	1,040.00	1
19-10-1009	SAM 316-130/S	A	2"	1.00	230	400	12	35	155x237x427	20.0	1,234.00	1
19-10-1010	SA 316-200	M	2"	1.00	400	400	12	35	155x237x427	20.0	1,223.00	1



The SA(M) pumps feature all wetted parts in 316 grade cast and pressed stainless steel. This “marine grade” construction enables these pumps to perform well in sea water and salt water. They have double mechanical seals in silicon carbide, carbon ceramic and Viton. Supplied with 10 metres of heavy duty, rubber power cable. Available in single or three phase, motors are fitted with internal overloads, enabling simple installation and direct connection to a power supply. Single phase pumps are automatic operation only, with a pendant type level control switch.

316 stainless steel is used widely in marine applications, but its corrosion resistance in contact with seawater is limited, so it cannot be considered ‘corrosion proof’. The corrosion risks increase with the effects of chloride concentrations, evaporation, temperature, aeration etc, (working individually or together); hence, the guarantee period for these models relates to the mechanical operation and may not cover all seawater conditions. Please contact our sales department for guidance.



The SFQ series features all wetted parts in 316 grade (1.4436) cast stainless steel for industrial pumping of aggressive liquids. 316 is commonly known as “marine grade” hence these pumps are suitable for seawater and salt water, however, because of their cast construction, they are extremely resilient during prolonged use in these liquids and many chemical solutions. For added resistance, elastomers are in Viton rubber and the double mechanical seal (inboard and outboard: silicon carbide-silicon carbide) operates in a chamber of turbine oil. The heavy duty motors (1.5kW class E insulation, 3.7kW class F) are fitted with internal overloads, enabling simple installation and direct connection to the power supply. An open type impeller is capable of pumping up to 6mm solids diameter at 1.5kW and 15mm at 3.7kW. Supplied with 10 metres of heavy duty, neoprene rubber power cable.

316 stainless steel is used widely in marine applications, but its corrosion resistance in contact with seawater is limited, so it cannot be considered ‘corrosion proof’. The corrosion risks increase with the effects of chloride concentrations, evaporation, temperature, aeration etc, (working individually or together); hence, the guarantee period for these models relates to the mechanical operation and may not cover all seawater conditions. The selection of a pump for a chemical application must initially meet the basic corrosion resistant standards, however additional mechanical or physical properties in the duty may also need to be considered to achieve the overall service performance required. In each case please contact our sales department for guidance.

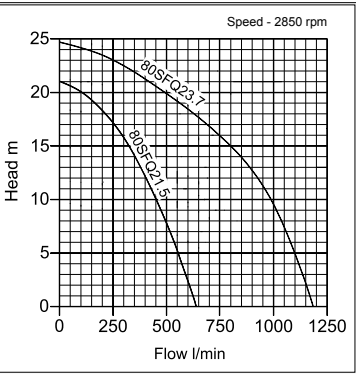


80SFQ21.5

item code	model	Manual or Auto	outlet (FBSP)	kW	volt	flow (l/min)	head (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
10-10-1067	80SFQ21.5	M	3"	1.5	400	645	21.0	6	221x329x484	36	2,895.00	1
10-10-1105	80SFQ23.7	M	3"	3.7	400	1180	24.6	15	257x359x552	52	5,517.00	1

80SFQ

- Industry
- Marine
- Processing
- Seawater
- Strong chemicals

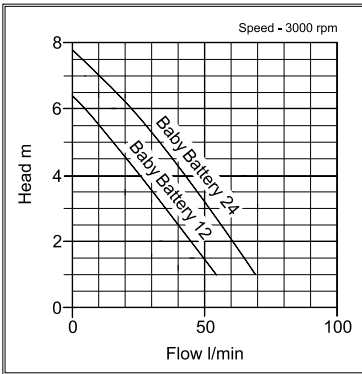


BABY BATTERY



LARGE FLOW

- Industry
- Processing
- Leisure
- Sumps & bilges
- Transfer
- Filling



The **Baby Battery** pumps are low voltage, D.C., plastic submersibles for battery operation only. They are water pumps for use mainly in boat bilges; however, they can be used for general drainage and transfer. They have a duty cycle of approximately 20 minutes and are supplied with 5 metres of PVC power cable, fitted with crocodile clips.



Baby Battery manual

Baby Battery auto

item code	model	Manual or Auto	outlet (mm)	volt (DC)	watt	amp	flow (l/min)	head (mtrs)	free passage (mm)	dia x h (mm)	dry weight (kgs)	Price (£)	code
22-10-1025	Baby Battery 12	M	25	12	175	14.0	55	6.3	1.7	Ø170x260	3.60	161.00	1
22-10-1038	Baby Battery 12	A	25	12	175	14.0	55	6.3	1.7	Ø170x260	3.60	170.00	1
22-10-1012	Baby Battery 24	M	25	24	220	8.8	69	7.8	1.7	Ø170x260	3.60	161.00	1
22-10-1026	Baby Battery 24	A	25	24	220	8.8	69	7.8	1.7	Ø170x260	3.60	170.00	1



DEFENCE RANGE

INSTANT REACTION

Persistent rainfall can cause floods at any time of the year. How well you defend your property from, and how quickly you recover from the impact of a flood, depends on how well prepared you are beforehand. The recommended strategy advised by Government agencies is that you should:

- 1) check if your property is in flood risk area by contacting your local authority or the Environment Agency. Sign up for free flood warnings.
- 2) create and practise a personal plan ("dry run") for the defence of your property from a flood.
- 3) not rely on local authorities or emergency services for help defending your property.

Whether or not you have prepared your property with permanent flood proofing such as flood boards, air-brick covers, one way drain pipe valves etc, it is highly likely that you will need other equipment to support these items and provide back-up if flood waters over-top and/or seep through defences.

It is vital then to create your own array of flood defence equipment that will help:

- a) enable you to react to warnings and prepare barriers quickly.
- b) give you time to react to possible water ingress (moving furniture, valuables etc).
- c) reduce stress.
- d) minimise the damage to your property.
- e) help you recover quicker after flooding.

Also prepare a flood kit of essential items such as your insurance documents, a torch, a wind-up or battery radio, warm clothing and blankets, a first aid kit, bottled water and non-perishable foods.

There are many flood defence products on the market that can help defend your property, but not one that can do this its own.

Each flood is different and how your property reacts to it can vary too depending on the time scale, severity, changing condition of the property etc.

We offer a range of flood defence kits that are designed around our range of water pumps and sand-less sandbags. **Floodmate** is an emergency pumping kit which has a powerful pump (capable of low level suction), hoses and **Hydrosacks** all contained in a carry case. **Hydrosacks** are a clean, lightweight and easy to fit alternative to sandbags for low level flooding.

It is likely that a flood may affect your power supply. During a flood it may be that the power supply in the area has already been turned off by the Distribution Network Operator for safety reasons. However, if flood-water is about to enter your property, and power appears still to be connected, you should turn off your electricity supply via your isolator switch or fuse unit... but only if safe to do so.

Floodmate Ultimate combines the **Floodmate** kit with a portable generator to maintain the electrical supply to your flood defences, powering the submersible pump and/or powering appliances around the property. To overcome problems associated with stale fuel optional extras include gas conversion kits and fuel additives. However, all flood defence products should be checked regularly as part of a "dry-run", so that they are, and you are, prepared to react quickly.

SAFETY ADVICE: generators should always be operated outdoors (petrol or gas driven), do not touch any electrical appliances, cables or equipment whilst you are standing in flood water, do not touch any appliances that have been immersed in water, be wary of flood levels and always be prepared to abandon your property if there is a risk to your personal wellbeing.



Flood Expo London ExCel



FLOODMATE

PUMP PACKAGE



FloodMate is an emergency pumping kit which has a powerful pump, two packs of Hydrosacks and discharge hoses for defending a property from low level flooding. Depending on which kit is selected, the pump is designed to pump water levels down to a level of between 3mm and 1mm. Hoses are light, easy to position and feature quick connections to enable fast deployment in an emergency. Supplied in a sturdy easy-carry case, there is sufficient space within to not only store the pumping equipment but keep other flood protection products e.g. emergency grab bags, emergency meals etc.

- Contents:**
- 1 x pump: BPS100, LSC1.4S, WX10 or TEM-25H
 - 1 x Phase 1 hose kit: 10 metres of 25mm (1") non-kink pipe c/w quick release connectors. For pumping near the property e.g. over window ledges, steps, walls, Hydrosacks, sandbags etc.
 - 1 x Phase 2 hose kit: 10 metres of 25mm (1") lay-flat pipe c/w quick release connectors. For pumping over flat surfaces e.g. over ground, away from the property.
 - 2 x Hydrosacks.
 - 1 x Easy carry case: c/w lid and 2 fastening straps (dimensions 400Wx600Lx 420H).

FloodMate 1:
1 x BPS100, 230 volt submersible pump. This has a 100watt motor ("uptake" for generator: 220 watt), weighs 3.5kgs(dry) and is supplied with a quick release hose connector, 10 metres of power cable and a plug for immediate use. It will pump approximately 40 litres per minute across 30 metres of level ground when using 25mm (1") hose. No initial priming required before starting, it will pump water down to 3mm, but it must not run dry. For the full specification of this pump see page 13.

FloodMate 2:
1 x LSC1.4, 230 volt submersible pump. This has a 480watt motor ("uptake" for generator: 590 watt), weighs 13.7kgs(dry) and is supplied with a quick release hose connector, 10 metres of power cable and a plug for immediate use. It will pump approximately 70 litres per minute across 30 metres of level ground with a 1 metre incline, when using 25mm (1") hose. Initial priming of the pump with water is required before starting, it will pump water down to 1mm and can run dry for long periods (e.g. overnight) without damage. For the full specification of this pump see page 29.

FloodMate 3:
1 x WX10 Honda engine driven pump, with a 1.5HP engine and weighs 6.1kgs (dry). This is supplied with a quick release discharge connector, a 4 metre, quick release suction hose, and a low level suction tool. It will pump approximately 80 litres per minute across 30 metres of level ground with a 1 metre incline, when using 25mm (1") hose. Initial priming of the pump with water is required before starting, It will pump water down to 3mm, but it must not run dry. Ideal for use when electricity is not available. For the full specification of this pump see page 134.

FloodMate 4:
This kit has all the contents of a Flood Mate 3 but the pump supplied is a Tsurumi TEM-25H. This has the same Honda engine as the WX10, but its weight is only 5kgs(dry). See page 135 for a full specification.



Phase 1 hose



Phase 2 hose

item code	description	price (£)	code
26-35-1017	Flood Mate 1	200.00	3
26-35-1009	Flood Mate 2	539.00	3
26-35-1011	Flood Mate 3	690.00	3
26-35-1010	Flood Mate 4	631.00	3
26-35-1019	Extra Phase 1 hose	24.00	3
26-35-1001	Extra Phase 2 hose	21.00	3



FLOOD-ULTIMATE

PUMP & POWER PACKAGE



Flood-UltiMate combines the FloodMate kit with a portable generator as "a bundle" to provide a continuous electrical supply to your flood defence kit, powering the submersible pump and/or powering appliances around your property. All the generators are compact, light-weight, super-quiet and feature inverter technology which enables them to provide the stability of power required to run the latest high tech electronics. 900 watt models have enough energy to run the submersible pump in each FloodMate power a light bulb and a radio or a small TV... to help get you through a flooding crisis. In addition to the submersible pump, the 1800 to 2000 watt models will operate more, and a wider range, of appliances* Generators, can be bought individually.

To overcome problems associated with stale fuel optional extras include gas conversion kits and fuel additives. Gas conversion kits are pre-fitted by our workshop prior to delivery.

- Flood-Ultimate 1:** FloodMate 1 kit with your choice of generator.
- Flood-Ultimate 1 GAS:** FloodMate 1 kit with your choice of generator which is supplied with a gas conversion kit.
- Flood-Ultimate 2:** FloodMate 2 kit with your choice of generator.
- Flood-Ultimate 2 GAS:** FloodMate 2 kit with your choice of generator which is supplied with a gas conversion kit.

* Power management: *care should be taken not to overload a generator and cause expensive damage which is not covered under any warranty. Total power requirements ("uptake"- input) of a device or devices should not exceed the maximum specified in the table below. e.g. BPS100 pump @ 220 watts + 2 x 100w light bulbs at 200 watts + a colour TV @ 250 watts = 670 watts. This demand is suitable for a 900 watt generator. If you add more appliances and the total uptake exceeds 900 watt then you will need to go up to a 1800 watt generator...or bigger. Please contact our sales department for advice on how to tailor your flood defence plans using a generator.*



Brand/Engine	Champion	Champion	Honda	Honda	SDMO Yamaha
Model	71001i	7230i	EU10i	EU20i	Pro 2000
engine (cc)	80	96	50	100	79
maximum power uptake (rated-watts)	900w	1900w	900w	1600w	2000w
Rated volts	230	230	230	230	230
sockets	1 x 230v	1 x 230v	1 x 230v 1 x 12v	2 x 230v 1 x 12v	1 x 230v 1 x 12v
fuel tank (ltr)	3.8	3.0	2.1	3.6	4.2
operating time at rated	4 hours +/-	4 hours +/-	3 hours & 54mins	4 hours	4 hours & 40 mins
l x w x h (mm)	490x335x415	490x335x415	451x242x379	512x290x425	555x365x495
dry weight (kgs)	18	25	13	20.7	22
dB(a) at 7 mtrs	53	53	52	52	51
warranty (years)	3	3	5	5	2
item code	26-35-1008	26-35-1007	26-35-1018	26-35-1021	26-35-1005
Generator only - price (£)	450.00	712.00	1,011.00	1,421.00	1,088.00
FloodUltimate 1 - price (£)	625.00	863.00	1,135.00	1,536.00	1,255.00
item code	26-35-1014	26-35-1013	26-35-1003	26-35-1016	26-35-1006
FloodUltimate 2 - price (£)	964.00	1,202.00	1,474.00	1,875.00	1,593.00
item code	26-35-1000	26-35-1020	26-35-1002	26-35-1012	26-35-1015
Fuel additive (125ML) - price (£) (26-35-1004)	17.00	17.00	17.00	17.00	17.00
Gas conversion kit - price (£)	n/a	n/a	175.00	175.00	n/a
Code	3	3	3	3	3



HYDROSACKS

SANDBAG ALTERNATIVE

The **Hydrosnake** and **Hydrosack** are a clean, easy to store and fit alternative to sandbags for low level flooding. They are constructed from a non-woven outer material with a super absorbent core. Before use, each one weighs less than 500g but once in contact with water it can weigh up to 20kgs when full to capacity of 20 litres. In this condition, it becomes effective in defending and redirecting floods and excess water. With contents of eco-friendly super-absorbent polymer and pulp, they are easily disposed of after use into the ground or for incineration.

The **HydroSnake** covers 120cm when activated, making the ideal barrier for low level flooding at warehouse doors, garden gates, sports fields, fire and emergency services. 2 per pack each one measures 145cm x 25cm.

The **HydroSack** covers 40cm when activated and is the design also includes handles for minimal contact and easy positioning of the barrier making it the perfect replacement of the traditional sandbag. 2 per pack each one measures 60cm x 48cm.



HydroSnake



HydroSack



item code	description	price per pack (£)	code
12-35-1002	Hydrosnake - 1 pack (2 snakes)	15.00	3
12-35-1003	Hydrosnake - 12 packs (24 snakes)	14.00	3
12-35-1000	Hydrosack - 1 pack (2 sacks)	15.00	3
12-35-1001	Hydrosack- 12 packs (24 sacks)	14.00	3



PRESSURE KITS

ACCESSORIES



A range of pressure equipment accessories.

Pressure vessels are WRAS approved and have interchangeable bladders. Horizontal, vertical and no mount options are available. A comprehensive selection of replacement bladders are available, with various braided hoses, multiway fittings, pressure gauges and switches.

PRESSURE VESSELS											
item code	type	capacity (litres)	orientation	tank (material)	bladder (material)	working pressure (BAR)	main connection (MBSP Gas)	Ø Dia x (H)igh or (L)ong (mm)	weight (kgs)	Price (£)	code
23-40-1014	ACS 2	2	no mount	steel	butyl	10	½"	Ø120x240H	1.4	24.00	4
23-40-1004	ACS 5	5	no mount	steel	butyl	10	¾"	Ø170x275H	1.8	28.00	4
23-40-1008	ACS CE 8	8	no mount	steel	butyl	8	¾"	Ø220x305H	2.5	32.00	4
23-40-1001	ACS CE 24	24	no mount	steel	EDPM	8	1"	Ø260x490H	4.6	43.00	4
23-40-1009	AFC/CAR CE 24	24	no mount	steel	butyl	16	¾"	Ø265x490H	6.8	86.00	4
23-40-1016	AFOSB CE 24	24	horizontal	steel	EDPM	8	¾"	Ø260x485L	5.3	46.00	4
23-40-1005	AFESB CE 60	60	horizontal	steel	EDPM	10	1"	Ø380x695L	11.8	128.00	4
23-40-1015	AFESB CE 100	100	horizontal	steel	EDPM	10	1"	Ø460x780L	15.3	174.00	4
23-40-1002	AFESB CE 200	200	horizontal	steel	EDPM	10	1½"	Ø590x960L	37.5	384.00	4
23-40-1003	AFESB CE 300	300	horizontal	steel	EDPM	10	1½"	Ø650x1150L	48.2	525.00	4
23-40-1000	AFE CE 60	60	vertical	steel	EDPM	10	1"	Ø380x830H	12.3	128.00	4
23-40-1012	AFE CE 100	100	vertical	steel	EDPM	10	1"	Ø460x880H	15.9	165.00	4
23-40-1010	AFE CE 200	200	vertical	steel	EDPM	10	1½"	Ø590x1100H	35.8	345.00	4
23-40-1017	AFE CE 300	300	vertical	steel	EDPM	10	1½"	Ø650x1250H	50.5	454.00	4
23-40-1013	AFE CE 500	500	vertical	steel	EDPM	10	1½"	Ø750x1600H	78.5	685.00	4
23-40-1007	AFE/CAR CE 100	100	vertical	steel	EDPM	16	1"	Ø460x880H	32.0	331.00	4
23-40-1011	AFE/CAR CE 200	200	vertical	steel	EDPM	16	1½"	Ø590x1100H	51.8	516.00	4
23-40-1006	AFE/CAR CE 300	300	vertical	steel	EDPM	16	1½"	Ø650x1250H	73.5	606.00	4

REPLACEMENT BLADDERS						
item code	type	capacity (litres)	material	weight (kgs)	Price (£)	code
23-65-1006	ACS 2	2	butyl	0.14	7.00	4
23-65-1002	ACS 5	5	butyl	0.14	8.00	4
23-65-1007	ACS 8	8	butyl	0.22	9.00	4
23-65-1011	ACS CE 24	24	EDPM	0.52	17.00	4
23-65-1010	AFOSB CE 24	24	EDPM	0.43	10.00	4
23-65-1005	AFESB CE 60	60	EDPM	0.86	57.00	4
23-65-1009	AFESB CE 100	100	EDPM	0.86	57.00	4
23-65-1000	AFESB CE 200	200	EDPM	2.69	125.00	4
23-65-1003	AFESB CE 300	300	EDPM	6.00	184.00	4
23-65-1008	AFE CE 60	60	EDPM	0.86	57.00	4
23-65-1001	AFE CE 100	100	EDPM	0.86	57.00	4
23-65-1004	AFE CE 200	200	EDPM	2.69	125.00	4
23-65-1013	AFE CE 300	300	EDPM	6.00	184.00	4
23-65-1012	AFE CE 500	500	EDPM	5.41	291.00	4

FLEXIBLE BRAIDED HOSE						
item code	connector	length (mm)	connection	weight (kgs)	Price (£)	code
12-65-1014	elbow	300	½"	0.3	7.00	4
12-65-1009	elbow	520	1"	0.6	13.00	4
12-65-1005	straight	600	1"	0.5	11.00	4
12-65-1012	elbow	650	1"	0.5	15.00	4
12-65-1006	straight	800	1"	0.6	12.00	4
12-65-1010	straight	1,000	1½"	1.4	37.00	4
12-65-1013	straight	1,500	1½"	1.5	48.00	4

PRESSURE GAUGES					
item code	Pressure (BAR)	connector position	weight (kgs)	Price (£)	code
12-65-1004	6	rear	0.1	6.00	4
12-65-1007	6	side	0.1	7.00	4
12-65-1003	12	side	0.1	7.00	4

BRASS MULTIWAY FITTINGS					
item code	connector	length (mm)	weight (kgs)	Price (£)	code
12-65-1008	3 way	1" x 1" x 1"	0.2	7.00	4
12-65-1001	5 way	1" x 1" x 1" x ¼" x ¼"	0.3	7.00	4

	PRESSURE SWITCHES					
item code	Type	pressure adjustment (BAR)	volts	weight (kgs)	Price (£)	code
12-65-1002	PM5	1 - 5	230	0.4	23.00	4
12-65-1011	PT5	1 - 5	400	0.4	23.00	4
12-65-1000	PM12	2 -12	230	0.4	23.00	4
12-65-1015	Fantini B12DN	5 -16	230	0.5	58.00	4

FLOAT SWITCHES



SEWAGE & WATER

- Industry
- Processing
- Pumping stations
- Oil & fat
- Clean water
- Pump manufacturing

Techno float switches are double (on and off) acting for emptying or filling applications. They have anti-shock polypropylene cases and PVC cables for use in clean water or inert water-based fluids.

- Operating & storage temperature: 50°C, Enclosure protection: IP68
- Switching current: 10 Amps (resistive), 4 Amps (inductive), 16 Amps (microswitch rating)
- Rated voltage: 250VAC, Angle of differential: +/-45°

Shuttle float switches are single acting (on or off) and designed for fitting directly to a submersible pump as either a component during manufacture or retro-fitting during a repair.

They have anti-shock polypropylene cases and Neoprene cables for use in wastewater. These high performance and extremely reliable switches feature self-cleaning contacts and three protective layers, which enable them to be condensation proof. They perform particularly well in light sewage, septic tank and dirty water applications that would not form a crust around the case hindering its movement.

- Operating temperature: 60°C, Storage temperature: 80°C, Enclosure protection: IP68
- Switching current: 10 Amps (resistive), 8 Amps (inductive), 21 Amps (microswitch rating)
- Rated voltage: 250VAC, Angle of differential: +/-45°

Drink float switches are single acting (on or off). They are approved in France for use in drinking water and hence hold ACS (Attestation De Conformite Sanitaire) certification. They have anti-shock polypropylene cases and PVC AD8 cables.

- Operating & storage temperature: 50°C, Enclosure protection: IP68
- Switching current: 10 Amps (resistive), 8 Amps (inductive), 21 Amps (microswitch rating)
- Rated voltage: 250VAC, Angle of differential: +/-45°

Titanio float switches are double acting (on and off) for emptying or filling applications. These high performance and extremely reliable switches feature self-cleaning contacts and three protective layers, which enable them to be condensation proof. The need for an external and awkward counterweight is unnecessary as this component is integrated within the case. This innovative design provides superior balance and stability in fluids containing suspended solids and sewage applications where turbulence creates problems for standard floats. They have anti-shock polypropylene cases and are available with PVC cables for most sewage applications. For improved resistance to the oils and fats found in many sewage and kitchen waste applications, switches with Neoprene cables are also available. These are not, however, suitable for liquids containing hydrocarbons.

- Operating & storage temperature: 50°C, Enclosure protection: IP68
- Switching current: 10 Amps (resistive), 4 Amps (inductive), 16 Amps (microswitch rating)
- Rated voltage: 250VAC, Angle of differential: +/-15°

Little EX float switches are double acting for emptying or filling applications. They comply with ATEX directives and are classified as IIC-T6-II-I-G. They are intended for use in potentially explosive atmospheres created by gases, mists and vapours. They have polyethylene cases with polyurethane cables for use in diesel oil, other hydrocarbons and the oils and fats present in kitchen waste. They are supplied with a counterweight.

- Operating & storage temperature: 40°C, Enclosure protection: IP68
- Switching current: 20 Amps (resistive), 8 Amps (inductive), 21 Amps (microswitch rating)
- Rated voltage: 250VAC, Angle of differential: +/-15°

Counterweights are constructed in hard polystyrene and are filled with sand. They are an optional extra for **Techno**, included with **Drink** and unnecessary with **Shuttle** and **Titanio**.



self cleaning contacts
(FAES models)



3 protective layers
(FAES models)



Techno



Shuttle



Drink



Titanio



Little EX

FLOAT SWITCHES

item code	type	cable material	length (mtr)	weight (kgs)	Price (£)	code
17-40-1008	Tecno	PVC	5	0.60	13.00	4
17-40-1011			10	1.20	19.00	4
17-40-1015			15	1.70	24.00	4
17-40-1023			20	2.30	31.00	4
17-40-1010			30	3.40	43.00	4
17-40-1021	Shuttle	Neop	0.5	0.20	16.00	4
17-40-1013			1	0.30	17.00	4
17-40-1014	Drink	PVC AD8	5	0.70	19.00	4
17-40-1000			10	1.30	32.00	4
17-40-1012			15	1.80	45.00	4
17-40-1016			20	2.40	60.00	4
17-40-1020			30	3.50	88.00	4
17-40-1003	Titanio	PVC	5	1.10	45.00	4
17-40-1018			10	1.60	53.00	4
17-40-1024			15	2.20	62.00	4
17-40-1022			20	2.80	72.00	4
17-40-1006			30	3.90	94.00	4
17-40-1007	Titanio	Neop	5	1.10	52.00	4
17-40-1009			10	1.60	69.00	4
17-40-1025			15	2.20	88.00	4
17-40-1019			20	2.80	109.00	4
17-40-1001			30	3.90	134.00	4
17-40-1004	Counterweight			0.13	1.00	4



item code	type	cable material	length (mtrs)	weight (kgs)	Price (£)	code
12-40-1008	Little EX5	Polyurethane	5	0.70	64.00	4
12-40-1002	Little EX10	Polyurethane	10	1.00	86.00	4
12-40-1012	Little EX20	Polyurethane	20	1.50	128.00	4

MULTI 1 • MULTI 2



ADJUSTABLE OVERLOADS

- Single pump
- Twin pump
- 1 phase
- 3 phase

Multi 1 and Multi 2 are electronic panels to control single or twin pumps (single or three phase), with enclosures in metal or thermoplastic. Both enclosures feature lateral door hinges (for hands free use), external fixing (no need to drill the enclosure) and are IP55. The closing system on thermoplastic enclosures is with two lateral screws, while the metal is with a key.

Standard features include:

- adjustable overloads
- low voltage transformers
- operation with float switches, pressure switches and probes
- hand/off/auto switches
- input for float activated audible alarm,
- maximum current protection with alarm
- minimum and maximum voltage protection with automatic reset and alarm
- lack and sequence of phases protection with automatic reset and alarm
- motor klixon overload protection with automatic reset and alarm
- Provision for start up capacitor
- Siren silencing button
- N°2 alarm outputs 12V DC max 200mA for siren and flashing Led lamp
- Alarm output max 5A NC-COM-NO (volt free)
- Auto changeover (Multi 2 only)

Warning: 110 volt panels should NOT be used with centre tap earth (CTE) transformers, as damage to the PCB will occur.

Basic Alarms are constructed in ABS plastic, with IP55 protection. They have audible warning alarms and electronic flashing beacons.



Multi 1 steel



Multi 1 thermoplastic

product code	type	enclosure material	current/PH - volts	motor power range (kW)	motor current range (amps)	single or twin pump control	audio alarm	visual alarm	w x l x h (mm)	weight (kgs)	Price (£)	code
16-40-1019	MULTI 1-P-110	plastic	1 - 110	0.37 - 1.1	2 - 18	Single	No	No	285x245x140	2.20	184.00	4
16-40-1020	MULTI 1-P-230	plastic	1 - 230	0.37 - 2.2	2 - 18	Single	No	No	285x245x140	2.20	139.00	4
16-40-1021	MULTI 2-P-230	plastic	1 - 230	0.37 - 2.2	2 - 18	Twin	No	No	285x245x140	2.20	159.00	4
16-40-1022	MULTI 2-P-230VA	plastic	1 - 230	0.37 - 2.2	2 - 18	Twin	Yes	Yes	285x245x140	2.70	266.00	4
16-40-1023	MULTI 1-P-400-10	plastic	3 - 400	0.37 - 7.5	0.5 - 16	Single	No	No	285x245x140	2.60	205.00	4
16-40-1024	MULTI 1-P-400-15	plastic	3 - 400	2.2 - 11	4 - 25	Single	No	No	345x285x165	3.30	239.00	4
16-40-1025	MULTI 2-P-400-10	plastic	3 - 400	0.37 - 7.5	0.5 - 16	Twin	No	No	285x245x140	2.80	261.00	4
16-40-1026	MULTI 2-P-400-10VA	plastic	3 - 400	0.37 - 7.5	0.5 - 16	Twin	Yes	Yes	285x245x140	3.30	368.00	4
16-40-1027	MULTI 2-P-400-15	plastic	3 - 400	2.2 - 11	4 - 25	Twin	No	No	380x300x150	4.20	384.00	4
16-40-1028	MULTI 2-P-400-15VA	plastic	3 - 400	2.2 - 11	4 - 25	Twin	Yes	Yes	380x300x150	4.70	491.00	4
16-40-1029	BASIC ALARM P-230A	plastic	1 - 230	n/a	n/a	n/a	Yes	No	180x140x140	0.80	36.00	4
16-40-1030	BASIC ALARM P-230VA	plastic	1 - 230	n/a	n/a	n/a	Yes	Yes	180x140x140	0.80	98.00	4
16-40-1031	BASIC ALARM P-12A	plastic	DC-12	n/a	n/a	n/a	Yes	No	180x140x80	0.70	36.00	4
16-40-1032	BASIC ALARM P-12VAL12	plastic	DC-12	n/a	n/a	n/a	Yes	Yes	180x140x80	0.70	98.00	4
16-40-1033	MULTI 1-M3-110	steel	1 - 110	0.37 - 1.1	2 - 18	Single	No	No	300x300x150	7.30	268.00	4
16-40-1034	MULTI 1-M3-230	steel	1 - 230	0.37 - 2.2	2 - 18	Single	No	No	300x300x150	7.30	223.00	4
16-40-1035	MULTI 2-M3-230	steel	1 - 230	0.37 - 2.2	2 - 18	Twin	No	No	300x300x150	7.30	245.00	4
16-40-1036	MULTI 2-M3-230VA	steel	1 - 230	0.37 - 2.2	2 - 18	Twin	Yes	Yes	300x300x150	7.80	352.00	4
16-40-1037	MULTI 1-M4-110	steel	1 - 110	0.37 - 1.1	2 - 18	Single	No	No	400x300x150	8.80	291.00	4
16-40-1038	MULTI 1-M4-230	steel	1 - 230	0.37 - 2.2	2 - 18	Single	No	No	400x300x150	8.80	245.00	4
16-40-1039	MULTI 2-M4-230	steel	1 - 230	0.37 - 2.2	2 - 18	Twin	No	No	400x300x150	8.80	268.00	4
16-40-1040	MULTI 2-M4-230VA	steel	1 - 230	0.37 - 2.2	2 - 18	Twin	Yes	Yes	400x300x150	9.30	375.00	4
16-40-1041	MULTI 1-M4- 400-10	steel	3 - 400	0.37 - 7.5	0.5 - 16	Single	No	No	400x300x150	9.20	311.00	4
16-40-1042	MULTI 1-M4-400-15	steel	3 - 400	2.2 - 11	4 - 25	Single	No	No	400x300x150	9.40	339.00	4
16-40-1043	MULTI 2-M4-400-10	steel	3 - 400	0.37 - 7.5	0.5 - 16	Twin	No	No	400x300x150	9.40	368.00	4
16-40-1044	MULTI 2-M4-400-10VA	steel	3 - 400	0.37 - 7.5	0.5 - 16	Twin	Yes	Yes	400x300x150	9.90	475.00	4
16-40-1045	MULTI 2-M4-400-15	steel	3 - 400	2.2 - 11	4 - 25	Twin	No	No	400x300x150	10.10	482.00	4
16-40-1046	MULTI 2-M4-400-15VA	steel	3 - 400	2.2 - 11	4 - 25	Twin	Yes	Yes	400x300x150	10.60	589.00	4



SIMPLEX • DUPLEX

ADJUSTABLE OVERLOADS

- Single pump
- Twin pump
- 1 phase
- 3 phase

Simplex and Duplex are electronic panels to control single or twin pumps, which are single or three phase. Constructed in thermoplastic with IP55 protection.

Standard features include:

- adjustable overloads
- low voltage transformers
- operation with float switches and probes
- hand/off/auto switches
- input for float activated audible alarm,
- maximum current protection with alarm
- motor klixon overload protection with automatic reset and alarm
- Provision for start up capacitor
- Alarm output max 5A NC-COM-NO (volt free)
- Auto changeover (Duplex only)

Warning: 110 volt panels should NOT be used with centre tap earth (CTE) transformers, as damage to the PCB will occur.

The LS1 alarms are constructed in thermoplastic with IP55 enclosures. They have audible warning alarms (90dB at 1 metre) with optional electronic flashing beacon



Duplex-AV



Duplex 0.37-2.2kW

product code	type	enclosure material	current/ PH - volts	motor power range (kW)	motor current range (amps)	single or twin pump control	audio alarm	visual alarm	w x l x h (mm)	weight (kgs)	Price (£)	code
16-40-1016	SIMPLEX UP-M/3	plastic	1 - 110	0.37 - 1.5	2-16	Single	No	No	240x170x340	1.50	200.00	4
16-40-1005	SIMPLEX UP-M/3 AV	plastic	1 - 110	0.37 - 1.5	2-16	Single	Yes	Yes	240x170x340	1.60	291.00	4
16-40-1015	SIMPLEX UP-M/3	plastic	1 - 230	0.37 - 2.2	2-16	Single	No	No	240x170x340	1.50	150.00	4
16-40-1017	SIMPLEX UP-M/3 AV	plastic	1 - 230	0.37 - 2.2	2-16	Single	Yes	Yes	240x170x340	1.60	241.00	4
16-40-1003	DUPLEX UP-M/3	plastic	1 - 230	0.37 - 2.2	2-16	Twin	No	No	240x170x340	4.00	182.00	4
16-40-1002	DUPLEX UP-M/3 AV	plastic	1 - 230	0.37 - 2.2	2-16	Twin	Yes	Yes	240x170x340	4.10	273.00	4
16-40-1014	SIMPLEX UP-T/10	plastic	3 - 400	0.55 - 7.5	2-15	Single	No	No	240x170x340	2.50	198.00	4
16-40-1000	SIMPLEX UP-T/10-AV	plastic	3 - 400	0.55 - 7.5	2-15	Single	Yes	Yes	240x170x340	2.60	289.00	4
16-40-1010	SIMPLEX UP-T/15	plastic	3 - 400	7.5 -11	16-24	Single	No	No	240x170x340	3.00	214.00	4
16-40-1018	SIMPLEX UP-T/15-AV	plastic	3 - 400	7.5 -11	16-24	Single	Yes	Yes	240x170x340	3.10	305.00	4
16-40-1004	DUPLEX UP-T/10	plastic	3 - 400	0.55-7.5	2-15	Twin	No	No	240x170x340	6.50	273.00	4
16-40-1008	DUPLEX UP-T/10 AV	plastic	3 - 400	0.55- 7.5	2-15	Twin	Yes	Yes	240x170x340	6.60	364.00	4
16-40-1007	DUPLEX UP-T/15	plastic	3 - 400	7.5 - 11	16-24	Twin	No	No	300x150x420	6.50	477.00	4
16-40-1012	DUPLEX UP-T/15 AV	plastic	3 - 400	7.5 - 11	16-24	Twin	Yes	Yes	300x150x420	6.60	568.00	4
16-40-1011	LS1-220A ALARM	plastic	1 - 230	n/a	n/a	N/A	Yes	No	160x140x160	0.50	41.00	4
16-40-1009	LS1-220AV ALARM	plastic	1 - 230	n/a	n/a	N/A	Yes	Yes	160x140x160	0.50	102.00	4
16-40-1006	LS1-24A ALARM	plastic	DC - 24	n/a	n/a	N/A	Yes	No	160x140x160	0.50	41.00	4
16-40-1013	LS1-24AV ALARM	plastic	DC - 24	n/a	n/a	N/A	Yes	Yes	160x140x160	0.50	102.00	4

FLOAT & LEVEL SWITCHES



BRIO

FLOAT & PROBE TYPE

- 1ph pump control
- Portable duties
- Fixed installations
- Small sumps
- Shallow water

The **Pendant** float switch has a 370mm long, H07RN-F 1.5mm² rubber cable, with an integral gland, for fitting to many single phase contractor pumps by Tsurumi and APP.

The **Agma** is a more compact design of float switch that has a mechanism that operates within a tube. It has an integral gland for fitting to some single phase pumps by Tsurumi and APP. Supplied with 10 metres of rubber cable.

The **Sensor** is an electronic float switch with stainless steel probes encapsulated in impact resistant moulded rubber. When the probes touch water, the pump will start and continue to operate for one minute after the water falls below it. However, if the water touches the probe within this time, the “stop” signal is cancelled and the pump continues to run until the water is cleared. It has an integral gland, for fitting to LB480, LB800 and LSC1.4S Tsurumi pumps. It is suited to portable applications, but the compact design and precise level control also makes it suitable for fixed installations and narrow or shallow sumps. As an optional extra, two types of extension kit are available to enable pumping even further down from the encapsulated probes: 70mm and 170mm nearer to the floor (but not beyond the pump’s specified lowest running water level).

NB This product is electronic, so damage may occur from the high current and high voltage applied during a portable appliance test. We recommend bypassing the switch, for a visual inspection only, during a test.

The **Remex** is a float switch for filling, emptying and alarm duties for all types of electrically driven pumps for operation in liquids up to 70C°. It is simple in construction and easy to fit. The float switch is IP44. Floats and weights are in A.B.S. thermoplastic and the cord length is 0.9 metres.

The **SwitchH₂O** has been designed specifically for use with the LSC1.4S residue pump utilizing a **Simplex** control panel (optional extra-see page 75) for controlling low water levels. 3 probes, in 304 stainless steel, are set in an epoxy-resin filled holder and they represent on, off and common. “On” must be cut to a position 50mm to 15mm, from the base of the pump and the “off” cut to a position from 40mm to 5mm from the base of the pump. In any application, these two probes must have a minimum difference of 10mm. “Common” must always be below the level of the “off” probe. It is supplied with 10 metres of low voltage, PVC power cable.

Probes, used in conjunction with **probe wire**, and controlled by a **Simplex** control panel (see page 77), are used for precise water level control. A probe can control the water level down to 5mm. Probes are also necessary when there is insufficient space available for traditional pendant or tube float switches to operate. A minimum of three probes is required: on/off/common. Suitable for use with single and three phase pumps.



Remex



Pendant



Agma



Sensor



Probe



SwitchH₂O and panel
(typical arrangement)

item code	model	unit	dry weight (kgs)	Price (£)	code
12-40-1013	Pendant	each	0.32	41.00	1
12-40-1021	Agma	each	1.50	55.00	1
10-40-1003	Sensor (110 volts)	each	0.60	236.00	1
10-40-1001	Sensor (230 volts)	each	0.60	236.00	1
10-40-1002	Sensor extention kit, 70mm	each	0.15	13.00	1
10-40-1000	Sensor extention kit, 170mm	each	0.64	63.00	1
12-40-1016	Remex	each	0.75	59.00	1
16-40-1001	SwitchH ₂ O (exc. panel)	each	0.53	66.00	1
17-40-1002	Probe	each	0.05	6.80	1
17-40-1017	Probe wire	per metre	0.004	0.70	1

The **Brio** uses the same system and has the same features as **Logicpress** (see page 80), however, the initial cut in pressure can be altered (by removing the cover and turning the adjuster) between 1.5 and 3.5 bar and it can be operated vertically or horizontally. It is also has a pressure gauge, which allows the starting pressure value and system pressure to be checked. It can be used in conjunction with shower pumps in installations where there is a negative head, i.e. the shower head is above the water level in the cold water tank, and also where the pumps are supplying several outlets at once e.g. body jets, or domestic water supplies. It also has a built in timer which will automatically try to reset itself every 30 minutes in the event of a previous shut down due to lack of water. Suitable for pumps with 230v motors that do not exceed 1.5kW and 110v motors that do not exceed 0.75kW. Reset device not available on 110v.



Brio 2000M

ELECTRONIC CONTROL

- Industry
- Domestic
- Processing
- Submersibles
- Jet pumps

item code	model	in/out (BSPM)	volt	amps (max)	flowrate (max l/ min)	temp (max C°)	min-max pressure	pump start pressure/ operating range*	w x l x h (mm)	dry weight (kgs)	Price (£)	code
17-40-1005	Brio 2000M	1"	110-230	12	80	65	1 - 10 bar	1 - 3.5 bar	100x160x100	0.70	73.00	4

LOGIC FLOW • LOGICPRESS

ELECTRONIC CONTROL

Logicpress electronic pressure switches will start a pump immediately when a valve in the pipe system is opened and stop the pump immediately when the valve is closed. They will keep a constant system pressure and reduce the effects of water hammer. Electronic pressure switches can be fitted to any surface mounted pump, or in the delivery line of any submersible that operates within the rated pressure, flow and motor specifications. This range is manufactured by Trevitech of Italy who also produce the Watertech models Presscontrol, Presscontrol TIME and Mascontrol.

Logicpress and Logicpress(M) have these user and system features:

Automatic reset function: pump protection from dry running but with automatic reset, enabling the pump to operate normally again during a condition where the lack of water may have only been temporary. In this situation, a conventional pressure controller (e.g. Presscontrol) would switch off and the system would require a manual reset, which could cause inconvenience. Both devices are designed to make 10 attempts to start over a 24 hour period. On the 10th attempt, if the condition still exists i.e. it is not temporary, it switches off. A system inspection and manual reset is then required.

Daily pump test function: if for any reason the pump remains idle for 24 consecutive hours, both devices are designed to start up the pump for about 5 seconds. This helps to avoid various problems associated with pumps inactive for long periods.

Dual voltage: Both devices are designed to be operated at 110v or 230v. Also suitable for 400v 3PH (with a contactor)

Optional pressure gauge: Both devices can be supplied with a factory fitted, pressure gauge, or this can be supplied separately for retro-fitting. Models with this fitted have suffix “(M)” and as a spare part it is called “Manometer”.

Logicpress: This is the same product as the Presscontrol, but with the extra features described above. The column of water between the switch and the highest outlet must not exceed 15 metres (1.5bar) – the “restart pressure value setting” - otherwise the system pressure may not fall to the pre-set “cut in” pressure and the system will not restart. This value is pre-set at factory, so no additional programming is required, or possible, during installation. Minimum flow required inwards is 1 litre per minute. It must be operated vertically. Optional pressure gauge (M).



- Standard features are:
- integral dry run pump protection
 - external re-set switches
 - power black-out auto reset
 - pump status LEDs
 - integral non-return valves
 - 400v 3PH options
 - IP65



item code	model	in/out (BSPM)	volt	amps max	max flowrate (l/min)	temp max C°	max operating pressure (bar)	pump start pressure (bar)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
20-40-1004	Logicflow	1"	110-230	16 • 8	166	65	16	1.5	130x75x100	0.35	37.00	4
20-40-1014	Logicpress	1"	110-230	20 • 10	166	65	12	1.5	140x190x110	1.00	66.00	4
20-40-1009	Logicpress(M)	1"	110-230	20 • 10	166	65	12	1.5	190x190x110	1.10	76.00	4
20-40-1011	Logicpress SET	1"	230	10	166	65	12	1.5 - 2.0 - 2.5	140x190x110	1.01	80.00	4
20-40-1005	Logicpress SET(M)	1"	230	10	166	65	12	1.5 - 2.0 - 2.5	190x190x110	1.10	89.00	4
20-40-1024	Logicpress PLUS	1¼"	110-230	16 • 16	200	65	12	1.5	211x251x175	1.50	138.00	4
20-40-1025	Logicpress 3PHASE PLUS	1¼"	400	6	200	65	12	1.5	205x272x175	1.05	345.00	4
20-40-1023	Optional extra, for retrofitting, Manometer pressure gauge c/w O ring								50x35x45	0.09	11.00	4

LOGIC SP-STP-TP

VARIABLE FREQUENCY DRIVE



The Logic SP-STP-TP series, by Trevi Engineering, is a pump management range that controls and protects surface pumps and submersible pumps. These controllers integrate the energy improvement efficiencies of variable frequency drive technology within a simple to use, plug and play, module while maintaining pressure and flow in a system. In addition to the day to day savings of reduced energy consumption, further economies are made during install as pressure sets fitted with a Logic controller do not require expansion tanks, check valves, pressure gauges or expensive control panels. When used on multi-pump booster sets, they will provide an integral and automatic pump changeover to guarantee even wear of the pumps, reducing the risk of pump failure and costly downtime. The pumps will operate at a variable speed to ensure the correct flow of water at the set pressure.

Housed within a robust thermoplastic casing, Logic is water cooled which enables costly dry running situations to be detected and then prevented. The effects of water hammer are also reduced. Set up and adjustment is fast and easy, with one page of instructions enough for installation, programming and maintenance. There is also a list of status codes to interpret system faults. To commission, just input the amp rating of the pump with the required pressures and the system is ready. The user friendly digital display indicates all the necessary data to check a system instantly and, in the case of a fault, understand the problem (from the status code indicated) without physical intervention of the system.

Two versions of each model are available: the standard model is for single pump control while the Logic SP-STP-TP (COM) is for multiple pump control and is equipped with interface and communication cable to enable communication between each controller. Each controller is supplied with 1.5 metres of cable for connection to the mains supply and 1.5 metres of cable for connection to the pump. Each version is available as part of a package within a pressure set or a booster set (contact our sales department for more information).

- Domestic property
- Commercial property
- Building services
- Processing
- Rainwater harvesting
- Water distribution



Logic VFD controller

model	SP 8.5	SP 11	SP 13	STP 8.5	STP 11	TP 6	TP 9	TP 12	TP 16
Voltage/Motor (phase)	single - single	single - single	single - single	single - three	single - three	three - three	three - three	three - three	three - three
Mains voltage (phase - volts)	1 - 230	1 - 230	1 - 230	1 - 230	1 - 230	3 - 400	3 - 400	3 - 400	3 - 400
Voltage fluctuations (+/- %)	15	15	15	15	15	15	15	15	15
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Maximum pump current (amps)	8.5	11.0	13.0	8.5	11.0	6.0	9.0	12.0	16.0
Maximum pump motor power (kW/HP)	1.3/1.7	1.5/2.0	2.2/3.0	1.9/2.5	2.2/3.0	2.2/3.0	3.0/4.0	5.5/7.5	7.5/10.0
Soft start	yes	yes	yes	no	no	no	no	no	no
Maximum operating pressure (bar)	16	16	16	16	16	16	16	16	16
Adjustable system pressure (bar)	2 ÷ 12	2 ÷ 12	2 ÷ 12	2 ÷ 12	2 ÷ 12	2 ÷ 12	2 ÷ 12	2 ÷ 12	2 ÷ 12
Adjustable cut-in pressure (bar)	1 ÷ 11	1 ÷ 11	1 ÷ 11	1 ÷ 11	1 ÷ 11	1 ÷ 11	1 ÷ 11	1 ÷ 11	1 ÷ 11
Minimum flow (ltrs/min)	1	1	1	1	1	1	1	1	1
Maximum operating temperature (C)	60	60	60	60	60	60	60	60	60
Protection (IP)	65	65	65	65	65	65	65	65	65
Digital manometer	yes	yes	yes	yes	yes	yes	yes	yes	yes
Digital ammeter	yes	yes	yes	yes	yes	yes	yes	yes	yes
Dry run protection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Timed auto re-arm	yes	yes	yes	yes	yes	yes	yes	yes	yes
Anti-jamming function	yes	yes	yes	yes	yes	yes	yes	yes	yes
Protection fuse	yes	yes	yes	yes	yes	yes	yes	yes	yes
Short circuit protection between phases	yes	yes	yes	yes	yes	yes	yes	yes	yes
Short circuit protection between phases & earth	yes	yes	yes	yes	yes	yes	yes	yes	yes
Over current protection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Voltage surge protection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Over temperature protection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Pressure sensor fault protection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Remote ON/OFF connection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Float/ probe switch control connections	yes	yes	yes	yes	yes	yes	yes	yes	yes
Remote alarm connection	yes	yes	yes	yes	yes	yes	yes	yes	yes
Accululation	yes	yes	yes	yes	yes	yes	yes	yes	yes
Check valve	yes	yes	yes	yes	yes	yes	yes	yes	yes
Pipe connections - factory fitted (BSPM)	1" x 1"	1¼" x 1¼"	1¼" x 1¼"	1" x 1"	1¼" x 1¼"	1¼" x 1¼"	1¼" x 1¼"	1¼" x 1¼"	1¼" x 1¼"
Pipe connections - interchangeable (BSPM)	1¼" x 1¼"	1½" x 1½"	1½" x 1½"	1¼" x 1¼"	1½" x 1½"	1½" x 1½"	1½" x 1½"	1½" x 1½"	1½" x 1½"
Dimensions w x l x h (mm)	260x285x312	260x285x312	260x285x312	260x285x312	260x285x312	260x320x312	260x320x312	260x320x312	260x320x312
Weight (kgs)	5.00	5.00	5.00	5.00	5.00	7.00	7.00	7.00	7.00
Price (£) - single device control version	505.00	579.00	664.00	606.00	675.00	774.00	1,021.00	1,095.00	1,201.00
Item code	20-40-1016	20-40-1017	20-40-1007	20-40-1021	20-40-1020	20-40-1002	20-40-1001	20-40-1010	20-40-1012
Price (£) - communication "COM" version	550.00	623.00	709.00	651.00	720.00	819.00	1,066.00	1,140.00	1,245.00
Item code	20-40-1008	20-40-1013	20-40-1022	20-40-1019	20-40-1003	20-40-1006	20-40-1000	20-40-1015	20-40-1018
code	1	1	1	1	1	1	1	1	1

WATER METERS



CLASS A & B ACCURACY

- Industry
- Domestic
- Agriculture
- Dirty water
- Clean water
- Drinking water

The **Alfa** is designed for cold water metering in domestic and industrial applications. It has a single-jet turbine, with an epoxy coated brass body and a super dry dial for frost resistant operation. The internal, wetted components conform to EEC drinking water directive 75/33 and it is certified to Class B for accuracy. It can be operated horizontally or vertically. It is fitted with an integral strainer to prevent entry of large particles and a tamper evident wire lock and seal. Remote meter reading can be achieved by specifying the optional extras of pulse output and LCD counter.

The **Beta** is designed for cold water metering in domestic and industrial applications. It has a multi-jet turbine, with an epoxy coated brass body (cast iron on the Beta 50) and a super dry dial for frost resistant operation. The internal, wetted, components conform to EEC drinking water directive 75/33 and it is certified to Class B for accuracy. It can be operated horizontally or vertically. It is fitted with an integral strainer to prevent entry of large particles and a tamper evident wire lock and seal. Remote meter reading can be achieved by specifying the optional extras of pulse output and LCD counter.

The **Delta** is designed for metering of cold water that contains sand, dirt and solids, however, an additional coarse strainer is required "up stream" from the inlet. It is particularly suitable for irrigation applications, where high flow rates occur. It has a paddle wheel turbine which relies on a full bore flow to provide an accurate measurement. It has an epoxy coated cast iron body and a super dry dial for frost resistant operation. It is certified to Class A for accuracy and can be operated horizontally or vertically. Mounting flanges are DIN standard PN16. It is supplied with a tamper evident wire lock and seal. Remote meter reading can be achieved by specifying the optional extras of pulse output and LCD counter.

The **Omega** is designed for metering of cold water that contains some small solids. It is suitable for water distribution and industrial applications, where low flow rates occur, and pipes may not be completely filled. It has a helix turbine, with an epoxy coated cast iron body and a super dry dial for frost resistant operation. It is certified to Class B for accuracy and can be operated horizontally or vertically. Mounting flanges are DIN standard PN16. It is supplied with an integral strainer to prevent entry of large particles and a tamper evident wire lock and seal. Remote meter reading can be achieved by specifying the optional extras of pulse output and LCD counter.



Alfa



Beta



Delta



Omega

item code	model	bore (BSPM/flange)	max flow (m ³ /hr)	continuous (m ³ /hr)	min flow (ltr/hour)	length (mm)	dry weight (kgs)	Price (£)	code
12-40-1006	Alfa 13	½"	3	3	31	110	0.8	40.00	1
12-40-1023	Alfa 20	¾"	5	4	50	130	1	53.00	1
12-40-1020	Beta 25	1"	8	6	79	260	1.2	143.00	1
12-40-1014	Beta 32	1¼"	13	10	125	260	2.3	159.00	1
12-40-1027	Beta 40	1½"	20	16	200	300	4.2	311.00	1
12-40-1026	Beta 50	2"	31	25	313	300	9.6	374.00	1
12-40-1022	Delta 50	50-DN50	63	79	3150	200	11.7	340.00	1
12-40-1017	Delta 80	80-DN80	125	100	5000	225	14.3	392.00	1
12-40-1024	Delta 100	100-DN100	200	160	8000	250	17.6	449.00	1
12-40-1011	Delta 150	150-DN150	500	400	20000	300	26.8	634.00	1
12-40-1009	Omega 50	50-DN50	50	40	500	200	12.4	492.00	1
12-40-1007	Omega 80	80-DN80	79	63	788	225	17	596.00	1
12-40-1015	Omega 100	100-DN100	125	100	1250	250	18	833.00	1
12-40-1019	Omega 150	150-DN150	313	250	3125	300	38	1,063.00	1
12-40-1018	Omega 200	200-DN200	500	400	5000	350	50.8	1,183.00	1
12-40-1005	Optional extra: pulse output, Alfa and Beta							40.00	1
12-40-1001	Optional extra: pulse output, Delta & Omega							80.00	1
12-40-1010	Optional extra: LCD counter (battery powered, panel mounted)...use in conjunction with pulse output.							132.00	1



FL

AUTOMATIC PUMPS

The FL series of water demand pumps will automatically turn on and off when a tap or valve tap is opened and closed. They are self-priming with a maximum suction lift of 2 metres. They can run dry, without damage, and can handle liquids up to 54°C. The motors have a 90% duty cycle during an operating period of 4.5 hours. Suitable for a variety of applications and processes e.g. vehicle mounted sprayers, chemical transfer/injection (check selection with our sales department for compatibility), portable water systems, automotive systems, showers, washing, marine, leisure, etc. (N.B. 12V & 24V DC versions are for battery use only). Each model includes a pre-filter as a backup safety device to prevent solid particles from entering the pump and damaging the diaphragm.



FL40

item code	model	inlet	outlet	volt	check valve (material)	diaphragm (material)	max pressure (bar)	max flow (l/min)	dia x l (mm)	dry weight (kgs)	Price (£)	code
12-15-1005	FL-40	13mm	13mm & ½" mBSP	12 DC	EPDM	santoprene®	3.0	17.0	ø75 x 280	2.50	66.00	1
12-15-1010	FL-40	13mm	13mm & ½" mBSP	24 DC	EPDM	santoprene®	3.0	17.0	ø75 x 280	2.50	66.00	1
12-15-1011	FL-41	13mm	13mm & ½" mBSP	110	EPDM	santoprene®	3.0	17.0	ø75 x 280	2.50	85.00	1
12-15-1018	FL-43	13mm	13mm & ½" mBSP	230	EPDM	santoprene®	3.0	17.0	ø75 x 280	2.50	85.00	1

ENM • ENT

BI-DIRECTIONAL FLOW

- Industry
- Hire fleets
- Red diesel
- Seawater
- Chemicals
- Light oils



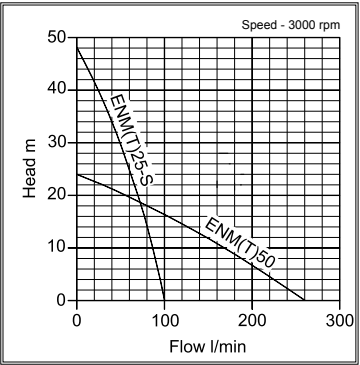
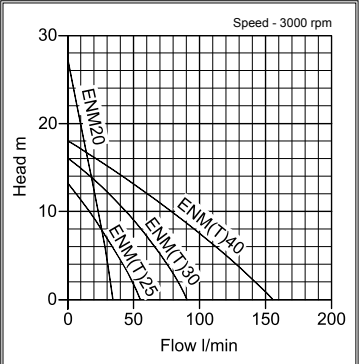
ENM25



ENM25 in frame



ENM pumps are self-priming and have bronze bodies and single impellers. They have 316 stainless steel shafts, fitted with NBR lip seals (Viton® is available at extra cost). The IP44 motors have a forward and reverse switch for filling and emptying duties. They are also available in 3 phase as ENT pumps. They are designed mainly for pumping clean liquids at temperatures up to a maximum of 90°C, but can also handle very small soft solids, in suspension. Maximum recommended suction lift, with a foot valve, is 6 metres. These are good, general-purpose, portable pumps for circulating and transfer of water, sea-water, juices, gas oil (“red diesel”), bio-fuel, transformer oil and mild chemicals. However, THEY MUST NOT PUMP DERV (“white diesel”), petrol, solvents or products with a low flash point. All models are supplied free-standing, so for ease of handling and added protection, a full frame is a worthy investment as an optional extra.



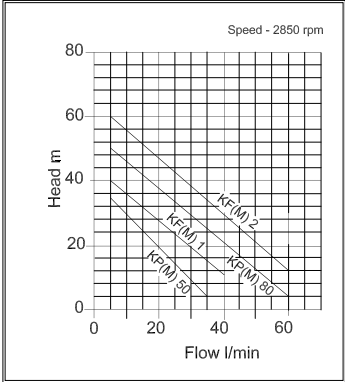
item code	model	inlet (mm)	outlet (mm)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
12-15-1004	ENM20	20	20	0.37	110	35	27	120x248x190	5.90	152.00	1
12-15-1022	ENM20	20	20	0.37	230	35	27	120x248x190	5.90	152.00	1
12-15-1003	ENM25	25	25	0.45	110	55	13	141x318x190	9.00	213.00	1
12-15-1008	ENM25	25	25	0.45	230	55	13	141x318x190	9.00	213.00	1
12-15-1017	ENT25	25	25	0.45	400	55	13	141x318x190	9.00	213.00	1
12-15-1002	ENM30	30	30	0.75	110	90	16	162x376x209	11.90	273.00	1
12-15-1020	ENM30	30	30	0.75	230	90	16	162x376x209	11.90	273.00	1
12-15-1015	ENT30	30	30	0.75	400	90	16	162x376x209	11.90	273.00	1
12-15-1013	ENM40	40	40	0.90	110	155	18	162x376x209	13.80	304.00	1
12-15-1019	ENM40	40	40	0.90	230	155	18	162x376x209	13.80	304.00	1
12-15-1007	ENT40	40	40	0.90	400	155	18	162x376x209	13.80	304.00	1
12-15-1014	ENM50	50	50	1.50	230	260	24	202x431x236	20.70	446.00	1
12-15-1012	ENT50	50	50	1.50	400	260	24	202x431x236	20.70	446.00	1
12-15-1000	ENM25-S	25	25	1.50	110	100	48	202x355x236	15.30	274.00	1
12-15-1021	ENM25-S	25	25	1.50	230	100	48	202x355x236	15.30	274.00	1
12-15-1023	ENT25-S	25	25	1.50	400	100	48	202x355x236	15.30	274.00	1
12-85-1067	Optional extra: full protection frame (type: FR001)...to fit models 20 & 25.							250x310x270	3.20	53.00	2
12-85-1060	Optional extra: full protection frame (type: FR002)...to fit models 30, 40, 50 & 25S.							295x375x300	3.90	58.00	2



The KF(M) and KP(M) pumps are non self-priming, peripheral centrifugal pumps that have frontal and radial suction ports with cast iron pump bodies. They have brass impellers and 304 stainless steel shafts, which are fitted with carbon-ceramic-NBR mechanical seals. All motors have IP44 protection. Single phase motors incorporate an overload protection device. They are able to develop high heads in domestic and industrial applications such as sprinkling, circulation, feeding pressurized boilers etc. They are designed for pumping clean water only, at liquid temperatures up to 60°C. These pumps should not be allowed to run dry, but by fitting an optional pressure controller (see pages 79 to 81) they can be protected from this and also start and stop them automatically. With the addition of a foot-valve, they are capable of a suction lift of 8 metres.



KF



KPM50

KF(M) • KP(M)

CAST IRON

- Industry
- Processing
- Domestic
- Boosting
- Welfare units
- Boiler feed



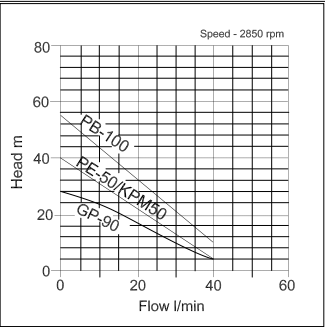
item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1018	KPM50	1"	1"	0.37	230	35	35	120x255x144	5.70	68.00	4
19-15-1027	KP50	1"	1"	0.37	400	35	35	120x255x144	5.70	68.00	4
19-15-1080	KPM80	1"	1"	0.60	230	50	60	135x295x161	9.50	101.00	4
19-15-1215	KP80	1"	1"	0.60	400	50	60	135x295x161	9.50	101.00	4
19-15-1185	KFM1	1"	1"	0.37	230	40	40	120x250x154	5.80	118.00	4
19-15-1057	KF1	1"	1"	0.37	400	40	40	120x250x154	5.80	118.00	4
19-15-1068	KFM2	1"	1"	0.60	230	60	60	135x275x172	9.50	149.00	4
19-15-1253	KF2	1"	1"	0.60	400	60	60	135x275x172	9.50	149.00	4

PE • PB • GP



BRONZE • STAINLESS STEEL

- Industry
- Processing
- Domestic
- Boosting
- Welfare units
- Boiler feed



The **PE50BR(T)** pump, part of the Obart Select range, is a non self-priming, peripheral centrifugal pump that has a frontal suction port, with a bronze pump body. It has a brass impeller and a 416 stainless steel shaft, which is fitted with a carbon-ceramic-NBR mechanical seal. It is able to develop high heads in domestic and industrial applications such as potable use, sprinkling, circulation, feeding pressurized boilers etc. IP44 motor protection. It is designed for pumping clean liquids only, at liquid temperatures up to 90°C.

The **KPM50BR** pump, by Speroni, is a non self-priming, peripheral centrifugal pump that has a frontal suction port, with a bronze pump body. It has a brass impeller and a 304 stainless steel shaft, which is fitted with a carbon-ceramic-NBR mechanical seal. It is able to develop high heads in domestic and industrial applications such as potable use, sprinkling, circulation, feeding pressurized boilers etc. IP44 motor protection. It is designed for pumping clean liquids only, at liquid temperatures up to 90°C.

The **PB100** pump, part of the Obart Select range, is a non self-priming, peripheral centrifugal pump that has a radial suction port, with a bronze pump body. It has a brass impeller and a 420 stainless steel shaft, which is fitted with a carbon-ceramic-NBR mechanical seal. It is able to develop a high head in domestic and industrial applications such as potable use, sprinkling, circulation, feeding pressurized boilers etc. IP44 motor protection. It is designed for pumping clean liquids only, at liquid temperatures up to 60°C.

The **GP90(S)** pump, by APP, is a non self-priming, peripheral centrifugal pump constructed of high grade materials to give excellent endurance in aggressive, high pressure, applications or just for potable use. It is also available in a range of voltages, for many industrial duties but at a price that will suit domestic applications too. It has a frontal suction port with a 304 stainless steel pump body. It also has a 304 stainless steel impeller and a 410 stainless steel shaft, which is fitted with a hard faced, abrasion resistant, silicon carbide mechanical seal. Elastomers are in Viton. IP45 motor protection. Suitable for liquid temperatures up to 60°C. It is available as a fixed speed booster set, see page 128.

All motors have aluminium motor housing and pressed steel or plastic fan covers. Single phase motors incorporate an overload protection device. These pumps should not be allowed to run dry, but by fitting an optional pressure controller (see pages 79 - 81) they can be protected from this and also start and stop it automatically. With the addition of a foot-valve, they are capable of suction lifts of 8 metres.



item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
15-15-1001	GP90(S)	1"	1"	0.20	110	40	28	170x252x168	6.50	186.00	4
15-15-1002	GP90(S)	1"	1"	0.20	230	40	28	170x252x168	6.50	186.00	4
15-15-1003	GP90(S)	1"	1"	0.20	400	40	28	170x252x168	6.50	186.00	4
19-15-1289	KPM50BR	1"	1"	0.37	230	40	40	120x255x144	6.50	156.00	4
12-15-1001	PE50BR	1"	1"	0.37	230	40	40	120x260x153	6.40	179.00	4
12-15-1009	PE50BRT	1"	1"	0.37	400	40	40	120x260x153	5.70	179.00	4
12-15-1006	PB100	1"	1"	1.00	230	40	55	155x273x169	7.70	287.00	4
12-15-1016	PB100	1"	1"	1.00	400	40	55	155x273x169	7.70	282.00	4



The **AKM60** is a self-priming, peripheral centrifugal pump with a cast iron body. It has a brass impeller, 304 stainless steel shaft and a carbon-ceramic-NBR mechanical seal. The motor has IP44 protection and incorporates an overload protection device. Being able to develop a high head, with a relatively small motor, it is well suited to domestic and industrial applications such as sprinkling, circulation, feeding pressurized boilers etc. It is designed for pumping clean water only, at liquid temperatures up to 60°C. This pump should not be allowed to run dry, but by fitting an optional pressure controller (see pages 79 to 81) it can be protected from this and also start and stop them automatically. It is capable of self-priming up to 7 metres.

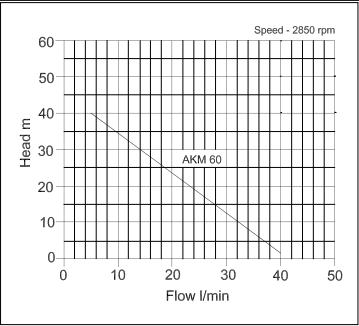


AKM60

AKM60

SELF-PRIMING

- Industry
- Processing
- Domestic
- Boosting
- Circulating

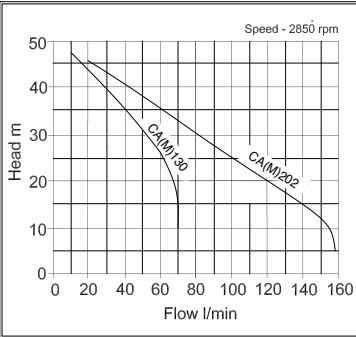
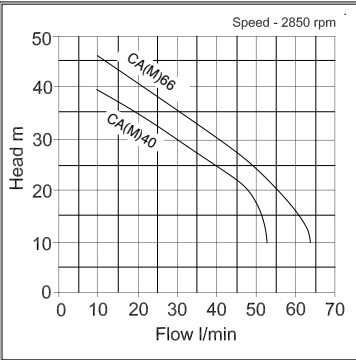


item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1102	AKM60	1"	1"	0.45	230	40	40	120x240x190	7.50	92.00	4

CA(M)

CAST IRON

- Industrial
- Process
- Boosting
- Wash-down
- Irrigation
- Transfer



The **CA(M)** series are single stage, self-priming “jet” pumps with cast-iron bodies. Sizes 0.60kW to 1.0kW have impellers in thermoplastic and motor supports in aluminium, while 1.1kW and 1.5kW are in 304 stainless steel and cast iron respectively. Venturis in all models are in thermoplastic. They have stainless steel shafts, fitted with carbon ceramic and NBR mechanical seals and have IP44 motors. Single phase motors incorporate an overload protection device. They are designed for pumping clean water only at a maximum temperature of 35°C. They should not be allowed to run dry, but by fitting an optional pressure controller (see pages 79 - 81) they can be protected from this and gives an automatic start and stop. Maximum recommended suction lift, when primed, is 8 metres. The pumps offer a wide pressure range for industrial boosting purposes, while their low operating noise, low power consumption also make them popular for a variety of domestic and horticultural applications.



CAM40



CAM202

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1149	CAM40	1"	1"	0.60	230	52	39	162x328x193	9.1	127.00	1
19-15-1089	CAM66	1"	1"	0.70	230	64	47	176x373x210	12.5	153.00	1
19-15-1269	CA66	1"	1"	0.70	400	64	47	176x373x210	12.5	153.00	1
19-15-1242	CAM130	1"	1"	1.00	230	70	48	176x421x194	15.5	172.00	1
19-15-1245	CA130	1"	1"	1.00	400	70	48	176x421x194	15.5	172.00	1
19-15-1235	CAM202	1½"	1"	1.50	230	158	46	236x570x274	40.0	290.00	1
19-15-1264	CA202	1½"	1"	1.50	400	158	46	236x570x274	40.0	279.00	1



KS

DOMESTIC

- Domestic
- Light industry
- Boosting
- Wash-down
- Irrigation
- Transfer

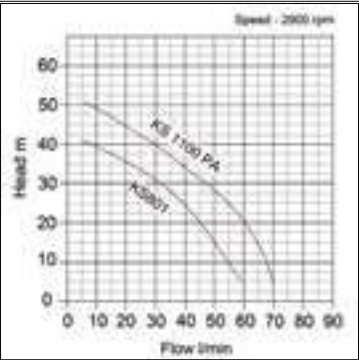


The **KS801** is a portable, single stage, self-priming “jet” pump with a thermoplastic body, venturi and impeller. The stainless steel shaft is fitted with a carbon ceramic and NBR mechanical seal. The IP44 motor has water resistant rocker switch and has overload protection. It is designed for pumping clean water only, at a maximum temperature of 35°C. It should not be allowed to run dry, but by fitting an optional pressure controller (see pages 79 - 81) it can be protected from this and also start and stop automatically. Maximum recommended suction lift, when primed, is 8 metres. For best results we recommend that a foot-valve and strainer should be fitted to the end of the suction hose. This is included with our 4 metre and 7 metre suction kits. These are available as an optional extra and include a pump coupling which is factory fitted to the hose for a vital, airtight connection. Fitted as standard with a carrying handle and a 2 metre rubber power lead. This pump is ideal for transfer and irrigation duties in domestic and light industrial applications.



KS801

Suction Kit



The **KS1100/PA** is a portable, single stage, self-priming “jet” pump specifically designed for pumping sea-water. The threaded inlet, outlet and shaft are in 316 stainless steel with a silicon carbide and viton mechanical seal, a pump body in polypropylene, with the impeller and diffuser in noryl. Maximum suction lift is 8 metres and it can pump liquids with a maximum temperature of 35°C. The motor is IP44 has overload protection and is fitted with rocker switch a 2 metre power lead. General purpose PVC hoses and pipe fittings perform well in sea-water, but suitable metal valves and accessories should be selected with care for their compatibility.

316 stainless steel is used widely in marine applications, but its corrosion resistance in contact with seawater is limited, so it cannot be considered ‘corrosion proof’. The corrosion risks increase with the effects of chloride concentrations, evaporation, temperature, aeration etc, (working individually or together); hence, the guarantee period for these models relates to the mechanical operation and may not cover all seawater conditions. Please contact our sales department for guidance.



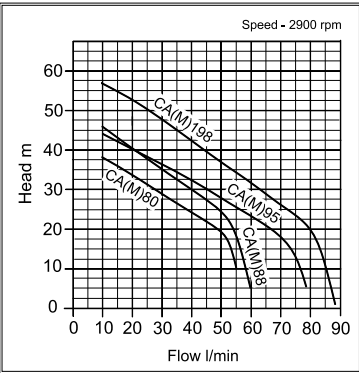
KS1100/PA

item code	model	inlet (BSPM)	outlet (BSPM)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1213	KS801	1"	1"	0.60	230	58	42	235x385x290	7.50	146.00	4
19-85-1002	Optional extra: 4 metre suction kit c/w foot valve and strainer								1.25	24.00	1
19-85-1001	Optional extra: 7 metre suction kit c/w foot valve and strainer								1.80	32.00	1
19-15-1296	KS1100/PA	1"	1"	0.86	230	70	50	209x415x284	11.00	244.00	1

CA(M)

STAINLESS STEEL

- Industry
- Processing
- Boosting
- Wash-down
- Irrigation
- Transfer



The **CA(M)** series are single stage, self-priming “jet” pumps with 304 stainless steel bodies and impellers (**CA(M)80**: thermoplastic). Motor supports are in aluminium, with venturis in thermoplastic. They have stainless steel shafts, fitted with carbon ceramic and NBR mechanical seals and have IP44 motors. Single phase motors incorporate an overload protection device. They are designed for pumping clean water only at a maximum temperature of 35°C. They should not be allowed to run dry, but by fitting an optional pressure controller (see pages 79-81) they can be protected from this and also start and stop them automatically. (The **CA(M)80** and **CA(M)88**, when fitted with a **Logicpress** (see page 80), are available with an optional steel protection frame for portable use). Maximum recommended suction lift, when primed, is 8 metres. The pumps offer a wide pressure range for industrial boosting purposes, while their low operating noise, low power consumption also make them popular for a variety of domestic and horticultural applications.



item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1209	CAM80	1"	1"	0.60	110	55	38	166x320x180	6.10	160.00	4
19-15-1204	CAM80	1"	1"	0.60	230	55	38	166x320x180	6.10	160.00	4
19-15-1000	CA80	1"	1"	0.60	400	55	38	166x320x180	6.10	160.00	4
19-15-1238	CAM88	1"	1"	0.75	110	60	46	184x370x200	9.90	210.00	4
19-15-1254	CAM88	1"	1"	0.75	230	60	46	184x370x200	9.90	210.00	4
19-15-1207	CA88	1"	1"	0.75	400	60	46	184x370x200	9.90	210.00	4
19-15-1053	CAM95	1"	1"	0.75	110	78	44	206x415x212	10.00	231.00	4
19-15-1218	CAM95	1"	1"	0.75	230	78	44	206x415x212	10.00	231.00	4
19-15-1097	CA95	1"	1"	0.75	400	78	44	206x415x212	10.00	231.00	4
19-15-1085	CAM198	1½"	1"	1.10	230	87	56	206x432x230	13.50	307.00	4
19-15-1278	CA198	1½"	1"	1.10	400	87	56	206x432x230	13.50	307.00	4
12-85-1026	Optional extra: full protection frame (FR005) to fit CA(M)80 & CA(M)88 (with or without Logicpress)							295x375x400	4.10	58.00	2



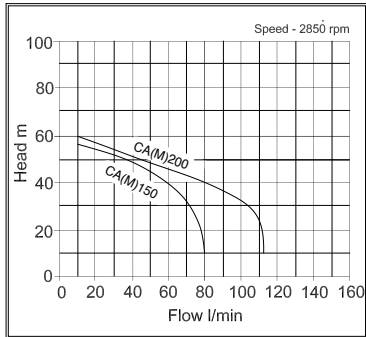
The **CA(M)** series are twin impeller, self-priming centrifugal pumps with bodies, ejectors and motor supports in cast iron. Impellers and venturis are in thermoplastic. They have stainless steel shafts, fitted with carbon ceramic and NBR mechanical seals and have IP44 motors. Single phase motors incorporate an overload protection device. They are designed for pumping clean water only at a maximum temperature of 35°C. They should not be allowed to run dry. The pumps offer a wide pressure range for industrial boosting purposes, while their low operating noise, low power consumption also make them popular for a variety of domestic and horticultural applications. They are capable of self-priming up to 9 metres, but can go up to 35 metres by fitting the ejector (supplied) to a double hose and foot-valve.



CA(M)

TWIN IMPELLER

- Industrial
- Process
- Wash-down
- Horticulture
- Transfer

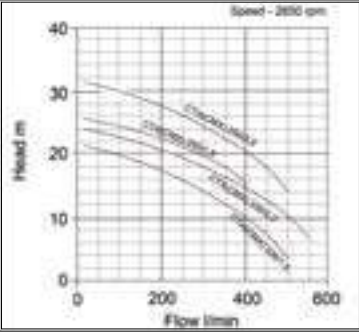
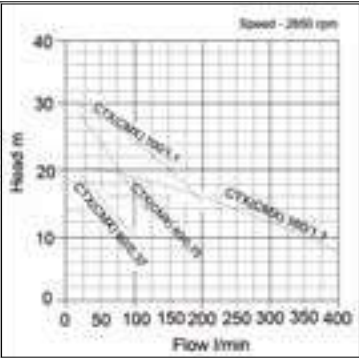


item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1178	CAM150	1½"	1"	1.10	230	80	58	220x605x240	28.0	350.00	1
19-15-1217	CA150	1½"	1"	1.10	400	80	58	220x605x240	28.0	334.00	1
19-15-1258	CAM200	1½"	1"	1.50	230	112	60	220x605x240	29.0	369.00	1
19-15-1056	CA200	1½"	1"	1.50	400	112	60	220x605x240	29.0	341.00	1

C(M)X • C(T)X

SINGLE IMPELLER

- Industry
- Agriculture
- Processing
- Transfer
- Water supply
- Light chemicals



CMX 60/0.37

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1265	CMX 60/0.37	1 1/4"	1"	0.37	230	100	19	216x333x227	10	221.00	1
19-15-1037	CTX 60/0.37	1 1/4"	1"	0.37	400	100	19	216x333x227	10	221.00	1
19-15-1266	CMX 60/0.75	1 1/4"	1"	0.75	230	120	29	216x333x227	14	244.00	1
19-15-1172	CTX 60/0.75	1 1/4"	1"	0.75	400	120	29	216x333x227	14	244.00	1
19-15-1138	CMX 100/1.1	1 1/4"	1"	1.1	230	200	30	216x360x227	16	319.00	1
19-15-1233	CTX 100/1.1	1 1/4"	1"	1.1	400	200	30	216x360x227	16	297.00	1
19-15-1059	CMX 160/1.1	1 1/2"	1 1/4"	1.1	230	400	21	216x371x238	16	329.00	1
19-15-1262	CTX 160/1.1	1 1/2"	1 1/4"	1.1	400	400	21	216x371x238	16	308.00	1
19-15-1117	CMX 250/1.5	1 1/2"	1 1/4"	1.5	230	400	25	216x371x238	20	340.00	1
19-15-1038	CTX 250/1.5	1 1/2"	1 1/4"	1.5	400	400	25	216x371x238	20	319.00	1
19-15-1105	CMX 250/2.2	1 1/2"	1 1/4"	2.2	230	500	31	216x418x245	23	393.00	1
19-15-1202	CTX 250/2.2	1 1/2"	1 1/4"	2.2	400	500	31	216x418x245	23	382.00	1
19-15-1047	CMX 330/1.5	2"	1 1/4"	1.5	230	500	21	216x371x238	20	340.00	1
19-15-1095	CTX 330/1.5	2"	1 1/4"	1.5	400	500	21	216x371x238	20	319.00	1
19-15-1230	CMX 330/2.2	2"	1 1/4"	2.2	230	550	24	216x418x245	23	393.00	1
19-15-1122	CTX 330/2.2	2"	1 1/4"	2.2	400	550	24	216x418x245	23	382.00	1



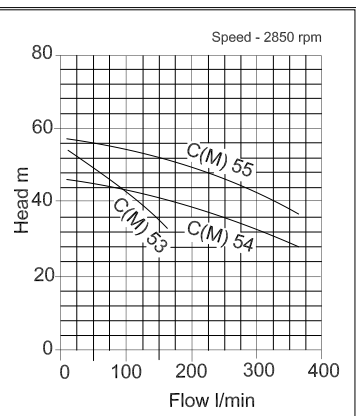
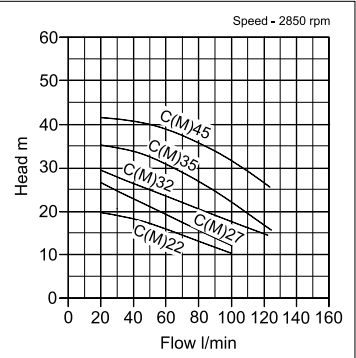
The C(M) series pumps are non-self priming, single-stage, mono-bloc centrifugal pumps with cast iron pump bodies and brass impellers (0.37kW to 0.75kW in thermoplastic). Motor supports are in aluminium (1.1kW and 1.5kW in cast iron) and they have stainless steel shafts, fitted with carbon ceramic and NBR mechanical seals. Motor protection is IP44 (0.37kW to 0.75kW) and IP55 (1.1kW to 4.0kW). Single phase motors incorporate an overload protection device. They are designed for pumping clean water only, at temperatures up to a maximum of 60°C (1.1kW to 4kW: 90°C). With the addition of a foot-valve, they are capable of a suction lift of 7 metres. They are designed for many domestic, industrial and agricultural applications.



CM22

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1034	CM22	1"	1"	0.37	230	100	20	164x260x205	7.50	125.00	1
19-15-1275	C22	1"	1"	0.37	400	100	20	164x260x205	7.50	125.00	1
19-15-1223	CM27	1"	1"	0.55	230	100	27	186x300x229	8.70	145.00	1
19-15-1006	C27	1"	1"	0.55	400	100	27	186x300x229	8.70	145.00	1
19-15-1065	CM32	1"	1"	0.75	230	125	29	186x300x229	11.10	159.00	1
19-15-1263	C32	1"	1"	0.75	400	125	29	186x300x229	11.10	159.00	1
19-15-1261	CM35	1 1/4"	1"	1.1	230	140	36	222x365x305	21.80	301.00	1
19-15-1188	C35	1 1/4"	1"	1.1	400	140	36	222x365x305	21.80	295.00	1
19-15-1189	CM45	1 1/4"	1"	1.5	230	140	43	222x365x305	22.40	341.00	1
19-15-1048	C45	1 1/4"	1"	1.5	400	140	43	222x365x305	22.40	329.00	1
19-15-1096	CM53	1 1/4"	1"	2.2	230	140	53	224x410x305	27.00	445.00	1
19-15-1168	C53	1 1/4"	1"	2.2	400	140	53	224x410x305	27.00	433.00	1
19-15-1032	CM54	2"	1 1/4"	3.0	230	360	46	256x485x323	40.00	811.00	1
19-15-1144	C54	2"	1 1/4"	3.0	400	360	46	256x485x323	40.00	719.00	1
19-15-1025	CM55	2"	1 1/4"	4.0	230	360	56	256x475x323	42.00	848.00	1
19-15-1163	C55	2"	1 1/4"	4.0	400	360	56	256x475x323	42.00	737.00	1

- Industry
- Agriculture
- Processing
- Transfer
- Mixing
- Circulating



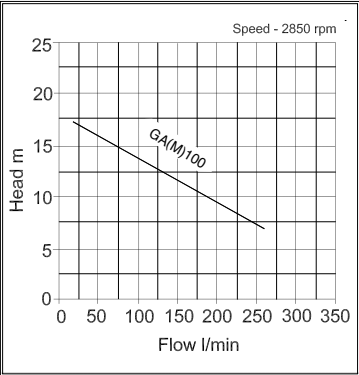
C(M)

SINGLE IMPELLER

GA(M)100

OPEN IMPELLER

- Industry
- Agriculture
- Horticulture
- Transfer
- Circulating



GA(M)100 is a non self-priming, single-stage, centrifugal pump with a cast iron pump body. It has an open impeller in brass and a motor shaft in 304 stainless steel. It is fitted with a carbon ceramic and NBR mechanical seal. Motor frame and supports are in cast iron. Motor protection is IP44. Single phase motors incorporate an overload protection device. It is designed for irrigation and general circulation in industrial applications. It can pump non-aggressive liquids, which are slightly dirty, up to a maximum of 60°C. With the addition of a foot-valve, it is capable of an 8 metre suction lift.



GAM100

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1071	GAM100	1½"	1½"	0.75	230	260	17	182x311x232	15.0	170.00	1
19-15-1224	GA100	1½"	1½"	0.75	400	260	17	182x311x232	15.0	170.00	1



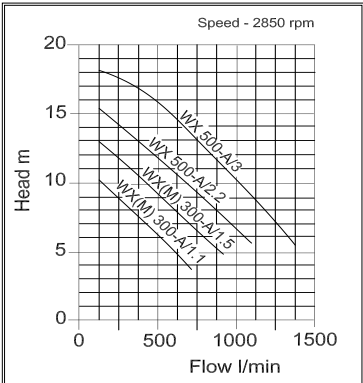
The WX(M)-A series are non self-priming, single-stage, centrifugal pumps with 304 stainless steel pump bodies, open impellers and motor shafts. They are fitted with silicon carbide and Viton mechanical seals. Motor frame and supports are in aluminium and the fan covers are in steel. Motor protection is IP55. Single phase motors incorporate an overload protection device. They are designed for food processing and cleaning applications which need the conveyance of residual suspended solids, washing of food and containers and general circulation. They can pump liquids up to a maximum of 90°C and liquids that are moderately aggressive and abrasive. They are designed for many industrial and agricultural applications.



WX 500-A/3

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1141	WXM 300-A/1.1	2"	2"	1.10	230	700	10.50	193x378x265	16.00	333.00	1
19-15-1049	WX 300-A/1.1	2"	2"	1.10	400	700	10.50	193x378x265	16.00	311.00	1
19-15-1162	WXM 300-A/1.5	2"	2"	1.50	230	900	13.00	193x378x265	17.50	363.00	1
19-15-1222	WX 300-A/1.5	2"	2"	1.50	400	900	13.00	193x378x265	17.50	328.00	1
19-15-1112	WX 500-A/2.2	2½"	2"	2.20	400	1100	15.00	193x415x242	22.00	405.00	1
19-15-1022	WX 500-A/3	2½"	2"	3.00	400	1400	18.00	193x432x242	23.00	449.00	1

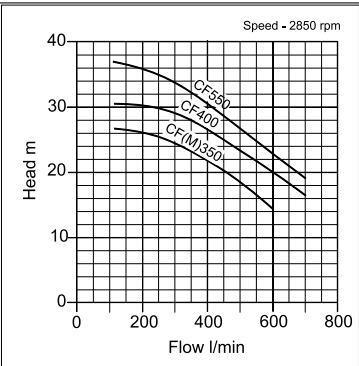
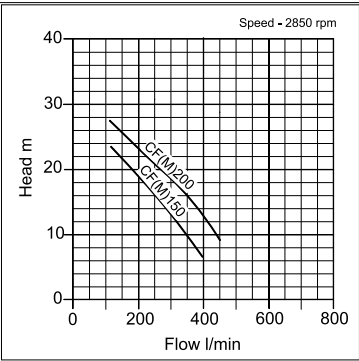
- Industry
- Agriculture
- Processing
- Transfer
- Circulating
- Light chemicals



CF(M)

SINGLE IMPELLER

- Industry
- Agriculture
- Processing
- Transfer
- Mixing
- Circulating



The CF(M) pumps are non-self priming, single-stage, mono-bloc, centrifugal pumps. Pump bodies, impellers and motor supports are in cast iron*. They have stainless steel shafts, fitted with ceramic graphite and NBR mechanical seals. Motor protection is IP55. Single phase motors incorporate an overload protection device. They are designed for pumping clean water only, at temperatures up to a maximum of 90°C. With the addition of a foot-valve, they are capable of a suction lift of 7 metres. They are designed for many domestic, industrial and agricultural applications. *1.1 kW & 1.5 kW (400 volts) models are available with brass impellers at an extra cost.

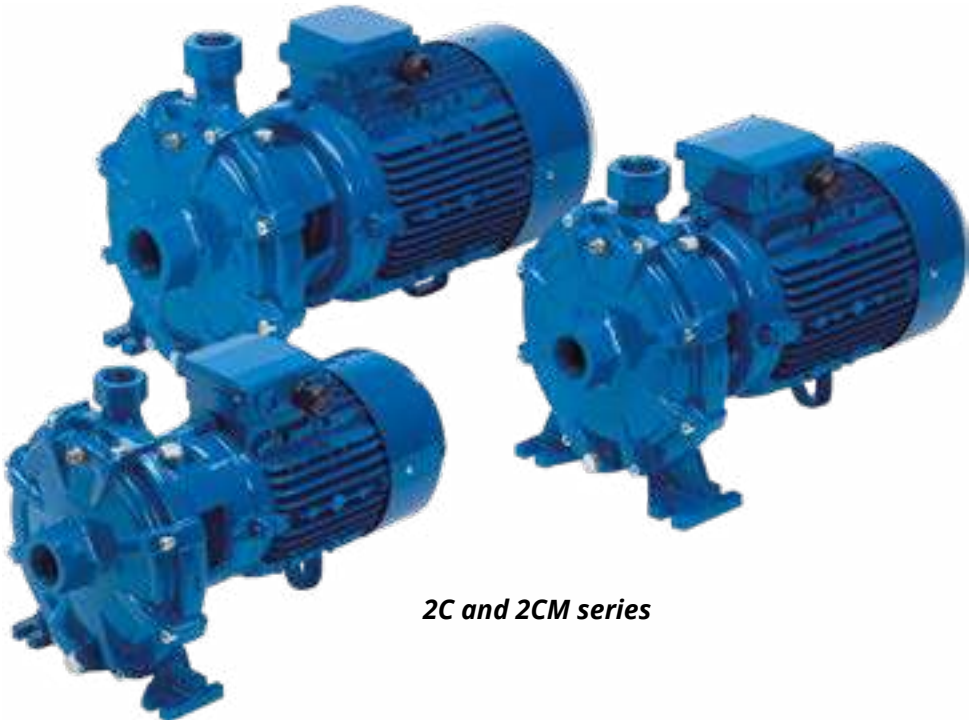


CF(M) series

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1293	CFM150(BR)	2"	2"	1.1	230	400	24	220x394x286	22.20	381.00	1
19-15-1228	CF150	2"	2"	1.1	400	400	24	220x394x286	22.20	336.00	1
19-15-1151	CFM200(BR)	2"	2"	1.5	230	450	27	220x394x286	24.20	421.00	1
19-15-1241	CF200	2"	2"	1.5	400	450	27	220x394x286	24.20	350.00	1
19-15-1042	CFM350	3"	2"	2.2	230	600	27	235x430x309	28.90	492.00	1
19-15-1276	CF350	3"	2"	2.2	400	600	27	235x430x309	28.90	470.00	1
19-15-1203	CF400	3"	2"	3.0	400	700	31	235x496x309	31.20	591.00	1
19-15-1125	CF550	3"	2"	4.0	400	700	37	235x496x309	38.10	624.00	1



The 2C(M) series are non-self priming, twin-stage, mono-bloc, centrifugal pumps. Pump bodies and motor supports are in cast iron with impellers in brass. They have stainless steel shafts, fitted with ceramic graphite and NBR mechanical seals. Motor protection is IP55. Single phase motors incorporate an overload protection device. They are designed for pumping clean water only, at temperatures up to a maximum of 90°C. With the addition of a foot-valve, they are capable of a suction lift of 7 metres. Suitable for sprinkling and pressurisation in industrial and agricultural applications.

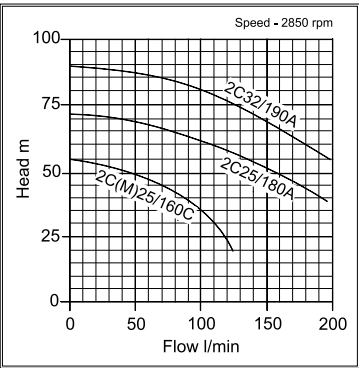
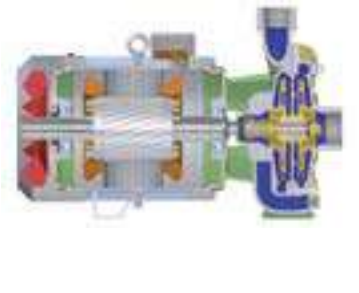


2C and 2CM series

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1280	2CM 25/160C	1¼"	1"	1.1	230	125	56	222x400x265	23.00	385.00	1
19-15-1111	2C 25/160C	1¼"	1"	1.1	400	125	56	222x400x265	23.00	376.00	1
19-15-1183	2C 25/180A	1¼"	1"	3.0	400	200	73	246x440x290	41.00	689.00	1
19-15-1267	2C 32/190A	1½"	1½"	4.0	400	200	88	272x495x340	53.00	794.00	1

TWIN IMPELLER

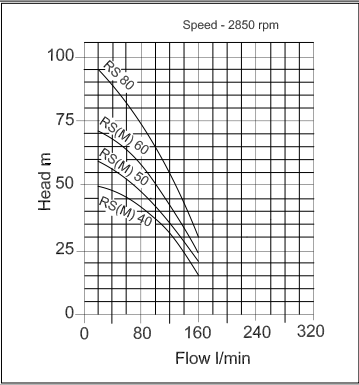
- Industry
- Agriculture
- Processing
- Supply
- Mixing
- Irrigation



RS(M)

HORIZONTAL MULTISTAGE

- Pressurisation units
- Fire fighting
- Washing
- Condensate
- Cooling
- Water supply



RSM 60

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1046	RSM 40	1½"	1"	1.50	230	160	49	194x514x242	22.00	409.00	1
19-15-1201	RS40	1½"	1"	1.50	400	160	49	194x514x242	22.00	398.00	1
19-15-1052	RSM 50	1½"	1"	1.90	230	160	59	194x543x242	23.00	441.00	1
19-15-1281	RS 50	1½"	1"	1.90	400	160	59	194x543x242	23.00	430.00	1
19-15-1079	RSM 60	1½"	1"	2.20	230	160	71	194x572x242	24.00	467.00	1
19-15-1143	RS 60	1½"	1"	2.20	400	160	71	194x572x242	24.00	457.00	1
19-15-1074	RS 80	1½"	1"	3.00	400	160	95	194x630x242	25.00	505.00	1

RSM 60



The RA(M) are self-priming, multi-stage, horizontal centrifugal pumps with 304 stainless steel pump casings, cast iron pump bodies and cast iron motor supports. Impellers and diffusers are in thermoplastic. They have 304 stainless steel shafts, fitted with carbon ceramic (models 3-4-5) or silicon carbide (models 40-50) and NBR mechanical seals. Motor frame and supports are in aluminium and the fan covers are in steel. Motor protection is IP44 (models 3-4-5) or IP55 (models 40-50). Single phase motors incorporate an overload protection device. They can develop high pressures and lifts from comparatively small motors and operate virtually silent, hence they are suitable for many domestic, industrial and horticultural applications. With the addition of a foot-valve, they are capable of suction lifts of 7 metres. They are designed for pumping clean water only up to a maximum of 35°C. They should not be allowed to run dry, but by fitting an optional pressure controller (see pages 80 to 81) they can be protected from this and also start and stop them automatically.



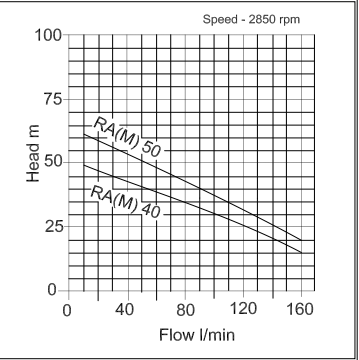
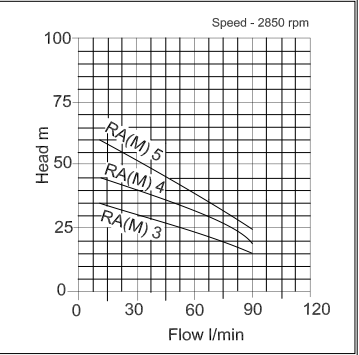
RAM 4

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1198	RAM 3	1"	1"	0.60	230	90	34	180x398x185	13.00	210.00	1
19-15-1009	RAM 4	1"	1"	0.70	230	90	45	180x422x185	14.00	229.00	1
19-15-1120	RAM 5	1"	1"	1.10	230	90	60	180x446x185	15.00	245.00	1
19-15-1160	RA 5	1"	1"	1.10	400	90	60	180x446x185	15.00	245.00	1
19-15-1106	RAM 40	1½"	1"	1.50	230	160	49	194x533x242	22.00	436.00	1
19-15-1167	RA 40	1½"	1"	1.50	400	160	49	194x533x242	22.00	425.00	1
19-15-1137	RAM 50	1½"	1"	1.90	230	160	61	194x562x242	23.00	467.00	1
19-15-1173	RA 50	1½"	1"	1.90	400	160	61	194x562x242	23.00	457.00	1

RA(M)

HORIZONTAL MULTISTAGE

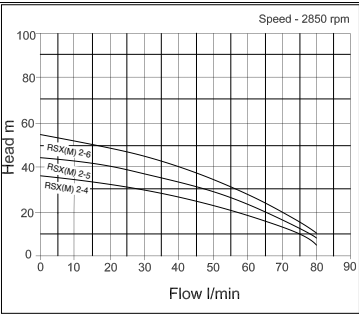
- Pressurisation units
- Fire fighting
- Washing
- Condensate
- Cooling
- Water supply



RSX(M)2

HORIZONTAL MULTISTAGE

- Pressurisation units
- Sprinklers
- Irrigation
- Washing
- Cooling
- Water supply



RSX(M)2 are non self-priming, multi-stage, horizontal centrifugal pumps with all the components that are in contact with the liquid constructed in 304 stainless steel. Mechanical seals are carbon ceramic and NBR. Motor protection is IP55. Single phase motors incorporate an overload protection device. They can develop high pressures and lifts from comparatively small motors and operate virtually silent, hence they are suitable for many domestic, industrial and horticultural applications. With the addition of a foot-valve, they are capable of suction lifts of 7 metres. They are designed for pumping clean water only up to a maximum of 35°C. They are particularly suitable for systems to be controlled by pressure controllers and inverter drives (see pages 79 to 81).



RSXM2-4

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1205	RSXM2-4	1"	1"	0.55	230	80	36	143x362x216	9.5	278.00	1
19-15-1023	RSX2-4	1"	1"	0.55	400	80	36	143x362x216	9.5	278.00	1
19-15-1133	RSXM2-5	1"	1"	0.55	230	80	45	143x380x216	9.5	298.00	1
19-15-1100	RSX2-5	1"	1"	0.55	400	80	45	143x380x216	9.5	298.00	1
19-15-1040	RSXM2-6	1"	1"	0.75	230	80	55	143x398x216	10.5	333.00	1
19-15-1220	RSX2-6	1"	1"	0.75	400	80	55	143x398x216	10.5	333.00	1



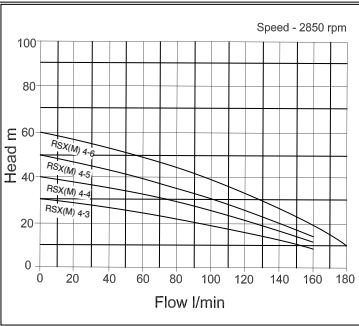
RSX(M)4 are non self-priming, multi-stage, horizontal centrifugal pumps with all the components that are in contact with the liquid constructed in 304 stainless steel. Mechanical seals are carbon ceramic and NBR. Motor protection is IP55. Single phase motors incorporate an overload protection device. They can develop high pressures and lifts from comparatively small motors and operate virtually silent, hence they are suitable for many domestic, industrial and horticultural applications. With the addition of a foot-valve, they are capable of suction lifts of 7 metres. They are designed for pumping clean water only up to a maximum of 35°C. They are particularly suitable for systems to be controlled by pressure controllers and inverter drives (see pages 79 to 81).



RSXM4-4

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1272	RSXM4-3	1 1/4"	1"	0.55	230	160	30	143x362x216	10.0	276.00	1
19-15-1184	RSX4-3	1 1/4"	1"	0.55	400	160	30	143x362x216	10.0	276.00	1
19-15-1294	RSXM4-4	1 1/4"	1"	0.75	230	160	40	143x389x216	10.5	299.00	1
19-15-1208	RSX4-4	1 1/4"	1"	0.75	400	160	40	143x389x216	10.5	295.00	1
19-15-1169	RSXM4-5	1 1/4"	1"	0.75	230	160	50	143x416x216	11.0	354.00	1
19-15-1210	RSX4-5	1 1/4"	1"	0.75	400	160	50	143x416x216	11.0	350.00	1
19-15-1086	RSXM4-6	1 1/4"	1"	1.10	230	180	60	143x443x216	12.0	385.00	1
19-15-1150	RSX4-6	1 1/4"	1"	1.10	400	180	60	143x443x216	12.0	374.00	1

- Pressurisation units
- Sprinklers
- Irrigation
- Washing
- Cooling
- Water supply



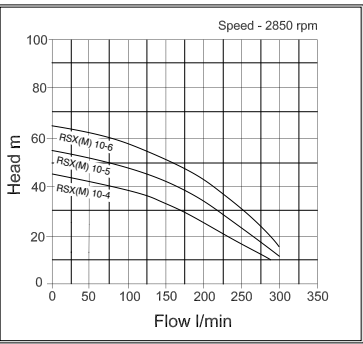
RSX(M)10

HORIZONTAL MULTISTAGE

- Pressurisation units
- Sprinklers
- Irrigation
- Washing
- Cooling
- Water supply



RSX(M)10 are non self-priming, multi-stage, horizontal centrifugal pumps with all the components that are in contact with the liquid constructed in 304 stainless steel. Mechanical seals are carbon ceramic and NBR. Motor protection is IP55. Single phase motors incorporate an overload protection device. They can develop high pressures and lifts from comparatively small motors and operate virtually silent, hence they are suitable for many domestic, industrial and horticultural applications. With the addition of a foot-valve, they are capable of suction lifts of 7 metres. They are designed for pumping clean water only up to a maximum of 35°C. They are particularly suitable for systems to be controlled by pressure controllers and inverter drives (see pages 79 to 81).



RSXM10-4

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1248	RSXM10-4	1½"	1½"	1.50	230	280	44	165x442x254	19.0	527.00	1
19-15-1259	RSX10-4	1½"	1½"	1.50	400	280	44	165x442x254	19.0	489.00	1
19-15-1237	RSXM10-5	1½"	1½"	2.20	230	300	54	170x515x235	27.0	673.00	1
19-15-1083	RSX10-5	1½"	1½"	2.20	400	300	54	170x515x235	27.0	574.00	1
19-15-1170	RSX10-6	1½"	1½"	3.00	400	300	65	170x562x235	30.0	687.00	1



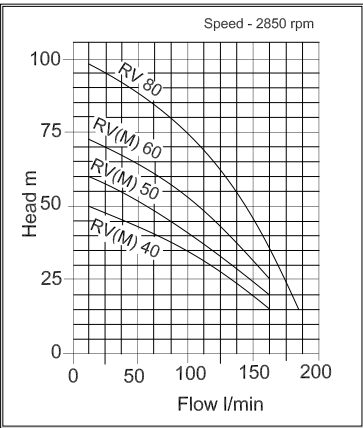
The RV(M) are non self-priming, vertical multi-stage pumps with 304 stainless steel pump casings, cast iron pump bodies and cast iron motor supports. Impellers and diffusers are in thermoplastic. They have 304 stainless steel shafts, fitted with carbon ceramic and NBR mechanical seals. Motor frame and supports are in aluminium and the fan covers are in steel. Motor protection is IP55. Single phase motors incorporate an overload protection device. They can develop high pressures and lifts from comparatively small motors and operate virtually silent, hence they are suitable for many domestic, industrial and horticultural applications. They are designed for pumping clean water only up to a maximum of 35°C. They should not be allowed to run dry, but by fitting an optional pressure controller (see pages 80 and 81) they can be protected from this and also start and stop them automatically.



RVM 50

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1127	RVM 40	1¼"	1"	1.50	230	160	50	181x247x525	26.00	465.00	1
19-15-1132	RV 40	1¼"	1"	1.50	400	160	50	181x247x525	26.00	454.00	1
19-15-1243	RVM 50	1¼"	1"	1.85	230	160	60	181x247x554	27.00	483.00	1
19-15-1064	RV 50	1¼"	1"	1.85	400	160	60	181x247x554	27.00	473.00	1
19-15-1227	RVM 60	1¼"	1"	2.20	230	160	73	181x247x583	28.00	511.00	1
19-15-1017	RV 60	1¼"	1"	2.20	400	160	73	181x247x583	28.00	500.00	1
19-15-1214	RV 80	1¼"	1"	3.00	400	180	98	181x247x641	32.00	547.00	1

- Pressurisation units
- Fire fighting
- Washing
- Condensate
- Cooling
- Water supply



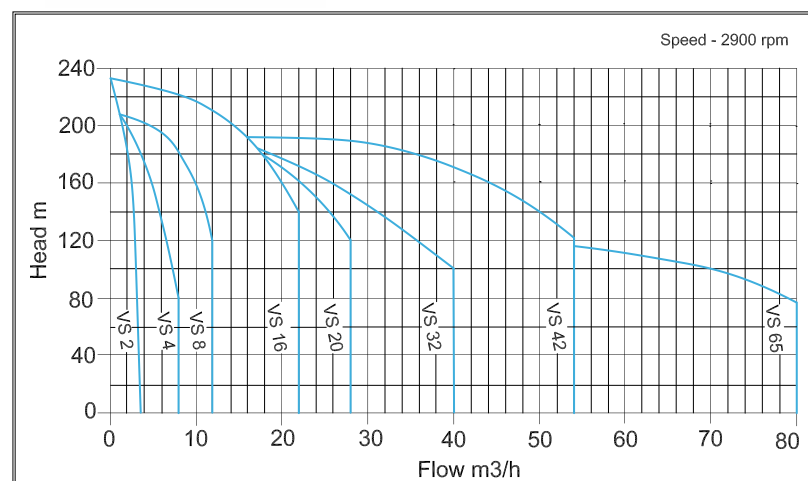
VS SERIES

VERTICAL MULTISTAGE

- Pressurisation units
- Sprinkler systems
- Irrigation
- Hot water circulation
- Washing systems
- Condensate



Pumps within the **VS series** can be controlled and protected using **Logic SP-STP-TP** controllers (see page 81). Using variable frequency drive technology, these controllers ensure the correct flow of water at the set pressure, while reducing energy consumption. When used on multi-pump booster sets, they will provide integral and automatic pump changeover to guarantee even pump wear.



The **VS** series are vertical multi-stage pumps with all the components that are in contact with the liquid constructed in 304 stainless steel. External supports are in cast-iron. The mechanical seals are silicon/silicon/Viton. They have 2 pole motors, with class F insulation and IP55 protection. Single phase motors incorporate an overload protection device. They will pump clean water up to temperatures of 110°C. They are designed for medium and large water supply applications often found in commercial, municipal and industrial applications.

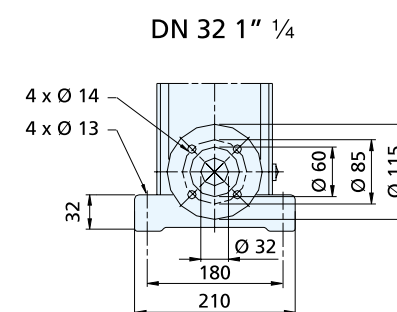
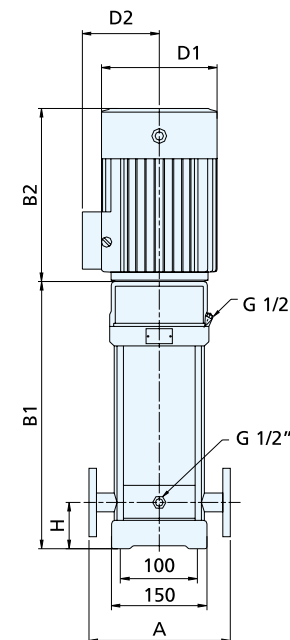
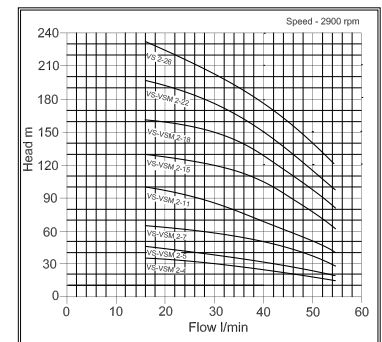
The coverage chart here enables a preliminary pump selection to narrow down the choice of pumps that will satisfy the system requirements. Curves and specifications of these pumps are found on subsequent pages.



VS 2

VERTICAL MULTISTAGE

- Pressurisation units
- Sprinkler systems
- Irrigation
- Hot water circulation
- Washing systems
- Condensate

**VS2-11**

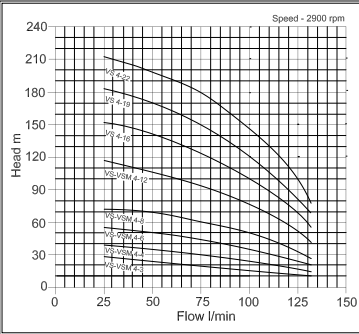
product code	model	Flange/BSP	kW	volt	flow (l/min)	head (mtrs)	A	H	B1	B2	B1 + B2	D1	D2	weight (kgs)	price (£)	code
19-15-1291	VSM2-4	DN32/1¼"	0.55	230	56	36	250	75	294	210	504	148	117	34	555.00	1
19-15-1206	VS2-4	DN32/1¼"	0.55	400	56	36	250	75	294	210	504	148	117	34	532.00	1
19-15-1126	VSM2-5	DN32/1¼"	0.55	230	56	45	250	75	312	210	522	148	117	35	580.00	1
19-15-1119	VS2-5	DN32/1¼"	0.55	400	56	45	250	75	312	210	522	148	117	35	556.00	1
19-15-1177	VSM2-7	DN32/1¼"	0.75	230	56	63	250	75	358	245	603	170	142	40	699.00	1
19-15-1273	VS2-7	DN32/1¼"	0.75	400	56	63	250	75	358	245	603	170	142	40	678.00	1
19-15-1270	VSM2-11	DN32/1¼"	1.10	230	56	98	250	75	430	245	675	170	142	41	825.00	1
19-15-1067	VS2-11	DN32/1¼"	1.10	400	56	98	250	75	430	245	675	170	142	41	768.00	1
19-15-1159	VSM2-15	DN32/1¼"	1.50	230	56	134	250	75	512	290	802	190	155	48	949.00	1
19-15-1292	VS2-15	DN32/1¼"	1.50	400	56	134	250	75	512	290	802	190	155	48	882.00	1
19-15-1010	VSM2-18	DN32/1¼"	2.20	230	56	161	250	75	566	290	856	190	155	55	1,004.00	1
19-15-1007	VS2-18	DN32/1¼"	2.20	400	56	161	250	75	566	290	856	190	155	55	935.00	1
19-15-1190	VSM2-22	DN32/1¼"	2.22	230	56	197	250	75	638	290	928	190	155	58	1,086.00	1
19-15-1274	VS2-22	DN32/1¼"	2.20	400	56	197	250	75	638	290	928	190	155	58	1,031.00	1
19-15-1232	VS2-26	DN32/1¼"	3.00	400	56	232	250	75	720	315	1035	197	165	65	1,132.00	1

VS 4

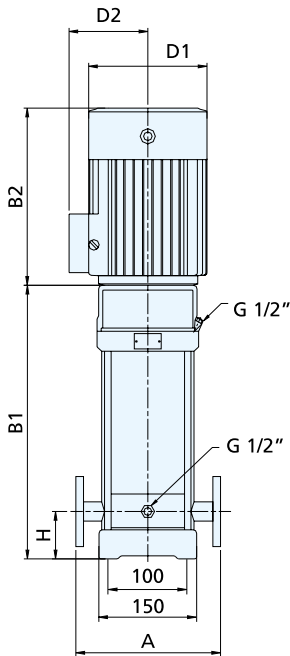


VERTICAL MULTISTAGE

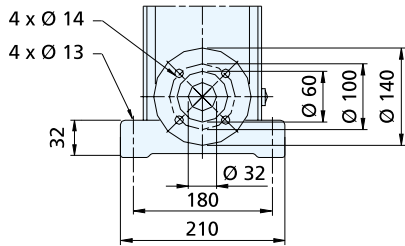
- Pressurisation units
- Sprinkler systems
- Irrigation
- Hot water circulation
- Washing systems
- Condensate



VS4-8



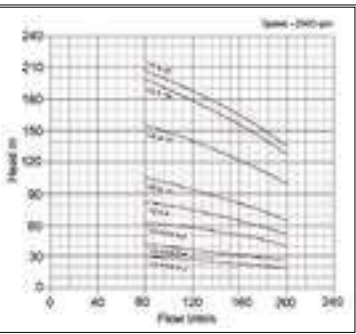
DN 32 1" 1/4



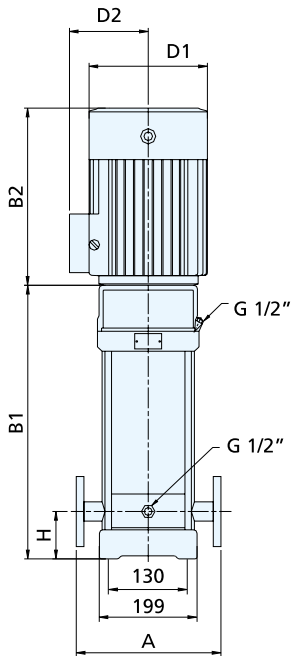
VS 8

VERTICAL MULTISTAGE

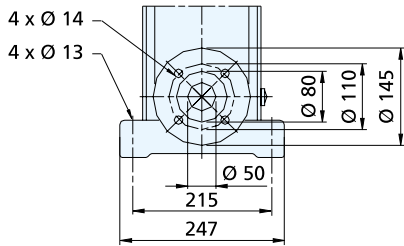
- Pressurisation units
- Sprinkler systems
- Irrigation
- Hot water circulation
- Washing systems
- Condensate



VS8-6



DN 40 1" 1/2



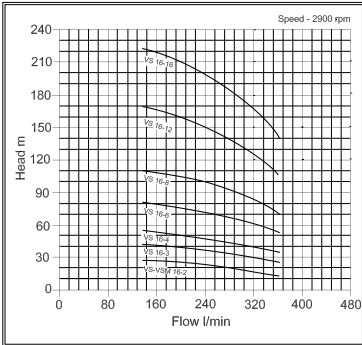
item code	model	Flange/BSP	kW	volt	flow (l/min)	head (mtrs)	A	H	B1	B2	B1 + B2	D1	D2	weight (kgs)	price (£)	code
19-15-1019	VSM4-3	DN32/1 1/4"	0.55	230	133	28	250	75	303	210	513	148	148	35	511.00	1
19-15-1077	VS4-3	DN32/1 1/4"	0.55	400	133	28	250	75	303	210	513	148	148	35	485.00	1
19-15-1092	VSM4-4	DN32/1 1/4"	0.75	230	133	38	250	75	340	245	585	170	142	39	625.00	1
19-15-1014	VS4-4	DN32/1 1/4"	0.75	400	133	38	250	75	340	245	585	170	142	39	611.00	1
19-15-1031	VSM4-6	DN32/1 1/4"	1.10	230	133	56	250	75	394	245	639	170	142	41	754.00	1
19-15-1021	VS4-6	DN32/1 1/4"	1.10	400	133	56	250	75	394	245	639	170	142	41	701.00	1
19-15-1050	VSM4-8	DN32/1 1/4"	1.50	230	133	74	250	75	458	290	748	190	155	51	871.00	1
19-15-1182	VS4-8	DN32/1 1/4"	1.50	400	133	74	250	75	458	290	748	190	155	51	797.00	1
19-15-1288	VSM4-12	DN32/1 1/4"	2.20	230	133	114	250	75	566	290	856	190	155	61	956.00	1
19-15-1078	VS4-12	DN32/1 1/4"	2.20	400	133	114	250	75	566	290	856	190	155	61	889.00	1
19-15-1142	VS4-16	DN32/1 1/4"	3.00	400	133	152	250	75	684	315	999	197	165	65	1,047.00	1
19-15-1024	VS4-19	DN32/1 1/4"	4.00	400	133	183	250	75	765	335	1100	230	188	81	1,318.00	1
19-15-1091	VS4-22	DN32/1 1/4"	4.00	400	133	211	250	75	846	335	1181	230	188	82	1,477.00	1

item code	model	Flange/BSP	kW	volt	flow (l/min)	head (mtrs)	A	H	B1	B2	B1 + B2	D1	D2	weight (kgs)	price (£)	code
19-15-1145	VSM8-3	DN40/1 1/2"	1.10	230	200	30	280	80	377	245	622	170	142	50	858.00	1
19-15-1295	VS8-3	DN40/1 1/2"	1.10	400	200	30	280	80	377	245	622	170	142	50	802.00	1
19-15-1116	VSM8-4	DN40/1 1/2"	1.50	230	200	41	280	80	417	290	707	190	155	62	944.00	1
19-15-1240	VS8-4	DN40/1 1/2"	1.50	400	200	41	280	80	417	290	707	190	155	62	871.00	1
19-15-1191	VSM8-6	DN40/1 1/2"	2.20	230	200	62	280	80	477	290	767	190	155	63	1,055.00	1
19-15-1192	VS8-6	DN40/1 1/2"	2.20	400	200	62	280	80	477	290	767	190	155	63	988.00	1
19-15-1051	VS8-8	DN40/1 1/2"	3.00	400	200	83	280	80	547	315	862	197	165	74	1,231.00	1
19-15-1033	VS8-10	DN40/1 1/2"	4.00	400	200	104	280	80	607	335	942	230	188	88	1,568.00	1
19-15-1035	VS8-15	DN40/1 1/2"	5.50	400	200	155	280	80	807	430	1237	260	208	120	2,059.00	1
19-15-1147	VS8-19	DN40/1 1/2"	7.50	400	200	197	280	80	867	430	1297	260	208	122	2,368.00	1
19-15-1029	VS8-20	DN40/1 1/2"	7.50	400	200	208	280	80	927	430	1357	260	208	124	2,420.00	1

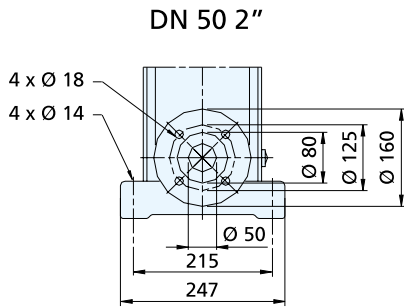
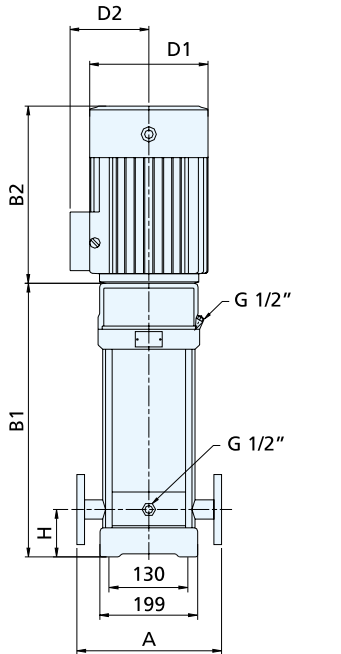
VS 16

VERTICAL MULTISTAGE

- Pressurisation units
- Sprinkler systems
- Irrigation
- Hot water circulation
- Washing systems
- Condensate



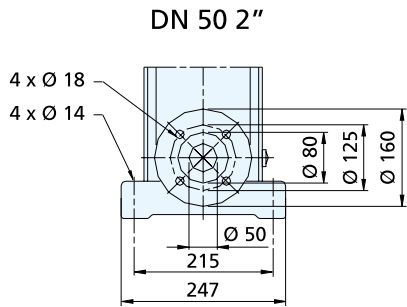
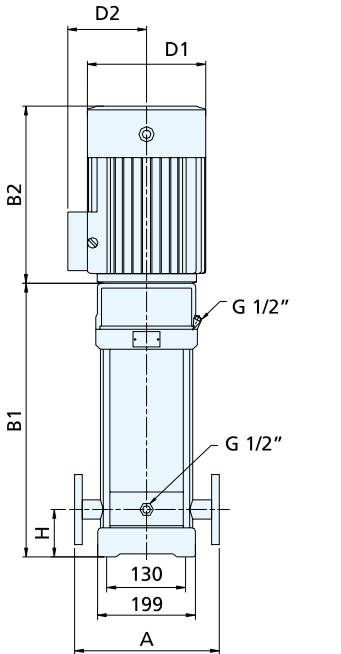
VS16-4



item code	model	Flange/BSP	kW	volt	flow (l/min)	head (mtrs)	A	H	B1	B2	B1 + B2	D1	D2	weight (kgs)	price (£)	code
19-15-1166	VSM16-2	DN50/2"	2.20	230	366	27	300	90	397	290	687	190	155	60	1,096.00	1
19-15-1268	VS16-2	DN50/2"	2.20	400	366	27	300	90	397	290	687	190	155	60	1,014.00	1
19-15-1041	VS16-3	DN50/2"	3.00	400	366	41	300	90	452	315	767	197	165	75	1,200.00	1
19-15-1114	VS16-4	DN50/2"	4.00	400	366	54	300	90	497	335	832	230	188	85	1,362.00	1
19-15-1028	VS16-6	DN50/2"	5.50	400	366	82	300	90	607	430	1037	260	208	110	1,743.00	1
19-15-1176	VS16-8	DN50/2"	7.50	400	366	110	300	90	697	430	1127	260	208	120	1,950.00	1
19-15-1030	VS16-12	DN50/2"	11.00	400	366	166	300	90	965	490	1455	330	255	205	2,662.00	1
19-15-1246	VS16-16	DN50/2"	15.00	400	366	222	300	90	1145	490	1635	330	255	238	3,169.00	1



SPERONI



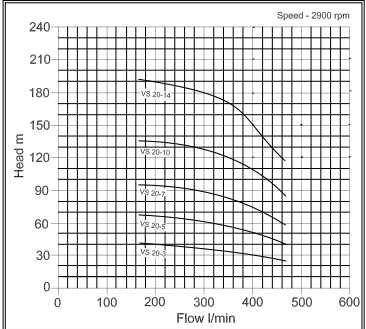
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19-15-1108	VS20-3	DN50/2"	4.00	400	466	41	300	90	452	335	787	230	188	57	1,658.00	1
19-15-1194	VS20-5	DN50/2"	5.50	400	466	67	300	90	562	430	992	260	208	74	2,038.00	1
19-15-1045	VS20-7	DN50/2"	7.50	400	466	95	300	90	652	430	1082	260	208	84	2,341.00	1
19-15-1099	VS20-10	DN50/2"	11.00	400	466	136	300	90	875	490	1365	330	255	145	2,757.00	1
19-15-1234	VS20-14	DN50/2"	15.00	400	466	192	300	90	1055	490	1545	330	255	165	3,538.00	1



VS20-3

VERTICAL MULTISTAGE

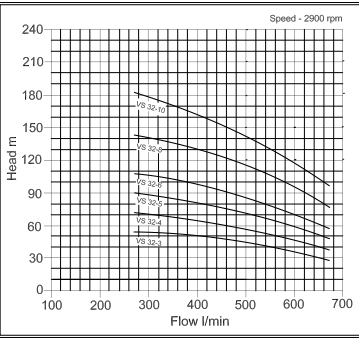
- Pressurisation units
- Sprinkler systems
- Irrigation
- Hot water circulation
- Washing systems
- Condensate



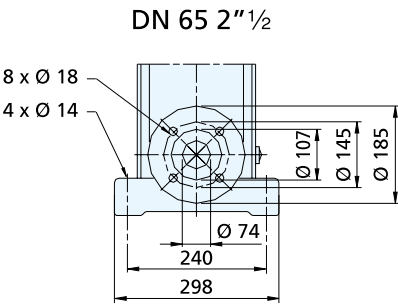
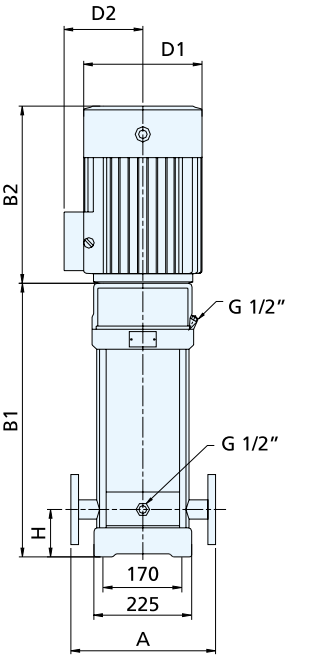
VS 32

VERTICAL MULTISTAGE

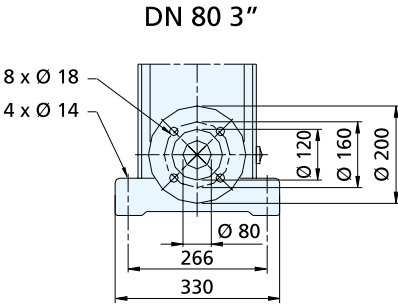
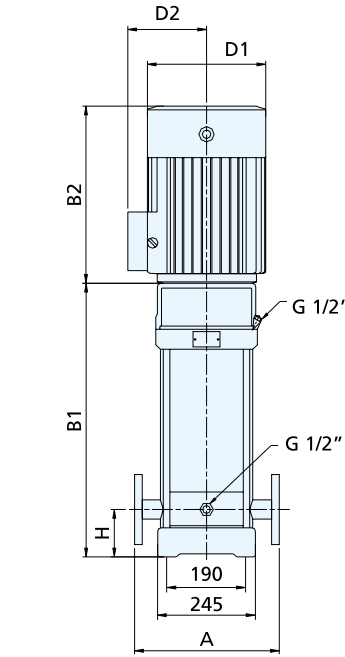
- Pressurisation units
- Sprinkler systems
- Irrigation
- Hot water circulation
- Washing systems
- Condensate



VS32-3



DN 65 2 1/2"



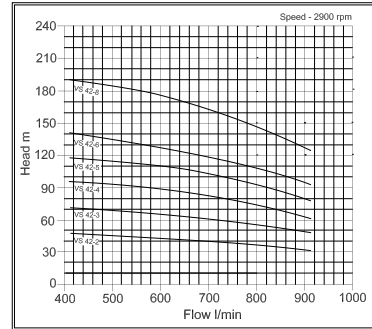
DN 80 3"



VS42-2

VERTICAL MULTISTAGE

- Pressurisation units
- Sprinkler systems
- Irrigation
- Hot water circulation
- Washing systems
- Condensate



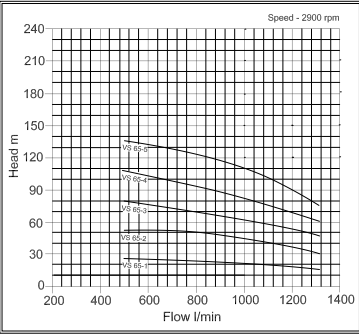
item code	model	Flange/ BSP	kW	volt	flow (l/min)	head (mtrs)	A	H	B1	B2	B1 + B2	D1	D2	weight (kgs)	price (£)	code
19-15-1277	VS32-3	DN65/2 1/2"	5.50	400	666	54	320	105	645	430	1075	260	208	140	2,276.00	1
19-15-1090	VS32-4	DN65/2 1/2"	7.50	400	666	72	320	105	715	430	1145	260	208	150	2,434.00	1
19-15-1121	VS32-5	DN65/2 1/2"	11.00	400	666	90	320	105	890	490	1380	330	255	220	2,836.00	1
19-15-1131	VS32-6	DN65/2 1/2"	11.00	400	666	108	320	105	960	490	1450	330	255	230	2,936.00	1
19-15-1197	VS32-8	DN65/2 1/2"	15.00	400	666	144	320	105	1100	490	1590	330	255	258	3,496.00	1
19-15-1236	VS32-10	DN65/2 1/2"	18.50	400	666	182	320	105	1240	550	1790	330	255	290	4,090.00	1

item code	model	Flange/ BSP	kW	volt	flow (l/min)	head (mtrs)	A	H	B1	B2	B1 + B2	D1	D2	weight (kgs)	price (£)	code
19-15-1072	VS42-2	DN80/3"	7.50	400	916	48	365	140	641	430	1071	260	208	130	2,730.00	1
19-15-1239	VS42-3	DN80/3"	11.00	400	916	71	365	140	826	490	1316	330	255	205	3,519.00	1
19-15-1225	VS42-4	DN80/3"	15.00	400	916	95	365	140	906	490	1396	330	255	215	4,858.00	1
19-15-1005	VS42-5	DN80/3"	18.50	400	916	119	365	140	986	550	1536	330	255	235	5,587.00	1
19-15-1130	VS42-6	DN80/3"	22.00	400	916	143	365	140	1066	590	1656	360	285	274	6,526.00	1
19-15-1199	VS42-8	DN80/3"	30.00	400	916	190	365	140	1226	660	1886	400	310	340	7,402.00	1

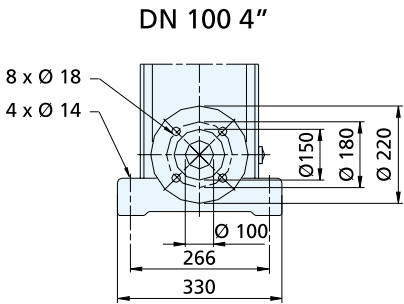
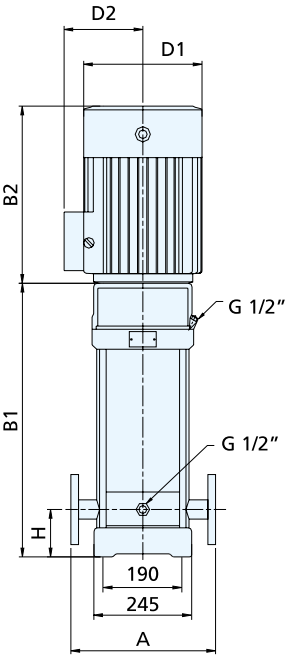
VS 65

VERTICAL MULTISTAGE

- Pressurisation units
- Sprinkler systems
- Irrigation
- Hot water circulation
- Washing systems
- Condensate



VS65-1

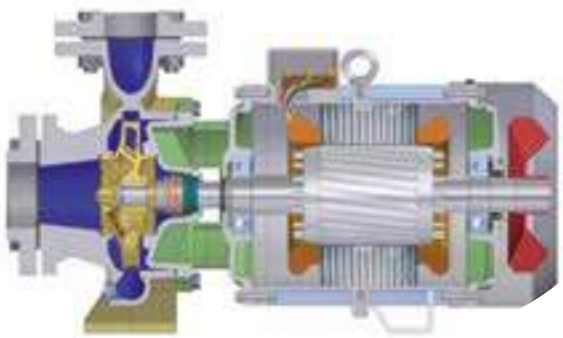


STANDARDISED ENBLOC (EN733 – DIN24255)

CS SERIES

The CS series are single-stage, mono-bloc, centrifugal pumps. The pump bodies, motor supports and counter-flanges are in cast iron and the range is manufactured in accordance with dimensional standards DIN-EN 733 (formerly DIN 24255), UNI 7467 and NF E44-111. This design permits “back pull out” i.e. for ease of maintenance, the pump body can be removed without disconnecting it from the pipework. It also allows the unit to be installed in any position except with the inlet facing down. Counter-flanges (optional extra) conform to UNI 2236 PN10 standards. They have stainless steel shafts, fitted with ceramic graphite and NBR mechanical seals. They have 2 pole motors, with class F insulation and IP55 protection.

They are designed for pumping clean water, at temperatures up to a maximum of 90°C (ambient 40 °C). With the addition of a foot-valve, they are capable of a suction lift of up to 7 metres. They are designed for hot and cold water circulation, water supply and transfer in industrial and agricultural applications.



- Industry
- Agriculture
- Processing
- Hot water
- Transfer
- Circulation



CS SERIES

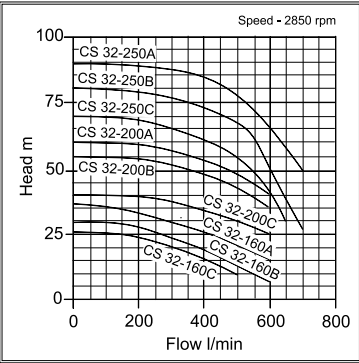
item code	model	Flange/ BSP	kW	volt	flow (l/min)	head (mtrs)	A	H	B1	B2	B1 + B2	D1	D2	weight (kgs)	price (£)	code
19-15-1179	VS65-1	DN100/4"	5.50	400	1333	27	365	140	561	430	991	260	208	110	2,624.00	1
19-15-1186	VS65-2	DN100/4"	11.00	400	1333	53	365	140	754	490	1244	330	255	155	3,436.00	1
19-15-1070	VS65-3	DN100/4"	18.50	400	1333	80	365	140	836	550	1386	330	255	205	5,126.00	1
19-15-1044	VS65-4	DN100/4"	22.00	400	1333	107	365	140	919	590	1509	360	285	260	6,220.00	1
19-15-1181	VS65-5	DN100/4"	30.00	400	1333	136	365	140	1001	660	1661	400	310	345	6,576.00	1

CS 32

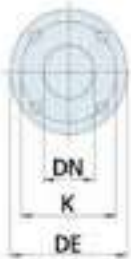
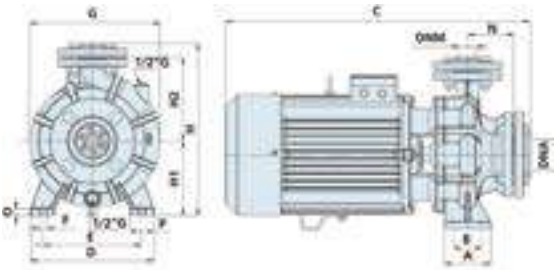


STANDARDISED ENBLOC (EN733 – DIN24255)

- Industry
- Agriculture
- Processing
- Hot water
- Transfer
- Circulation



CS 32-200 A



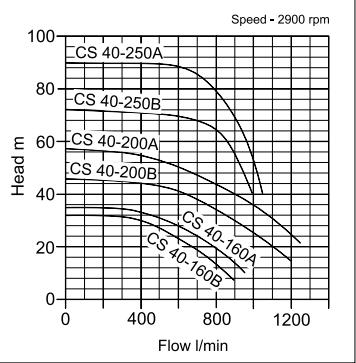
DIMENSIONS (MM)				
DN	DE	K	holes	
			qty	Ø
32	140	100	4	18
50	165	125	4	18

item code	model (3PH 230V-400V)	output (kW)	flow (l/min)	head (mtrs)	DNM	DNA	A	B	C	D	E	F	G	H	H1	H2	N	O	P	weight (kgs)	price (£)	code
19-15-1229	CS 32-160 C	1.5	500	26	32	50	100	70	480	240	190	15	240	322	132	160	80	13.5	50	36	522.00	1
19-15-1103	CS 32-160 B	2.2	600	29	32	50	100	70	480	240	190	15	240	322	132	160	80	13.5	50	39	532.00	1
19-15-1226	CS 32-160 A	3	600	37	32	50	100	70	510	240	190	15	240	322	132	160	80	13.5	50	42	554.00	1
19-15-1148	CS 32-200 C	4	600	40	32	50	100	70	530	240	190	15	273	370	160	180	80	15	50	52	698.00	1
19-15-1012	CS 32-200 B	5.5	600	55	32	50	100	70	630	240	190	15	273	370	160	180	80	15	50	63	919.00	1
19-15-1101	CS 32-200 A	7.5	600	60	32	50	100	70	630	240	190	15	273	370	160	180	80	15	50	69	953.00	1
19-15-1287	CS 32-250 C	9.2	670	70	32	50	125	95	745	320	250	15	335	445	180	225	100	18	65	83	1,177.00	1
19-15-1231	CS 32-250 B	11	700	80	32	50	125	95	745	320	250	15	335	445	180	225	100	18	65	90	1,237.00	1
19-15-1290	CS 32-250 A	15	700	88	32	50	125	95	745	320	250	15	335	445	180	225	100	18	65	120	1,701.00	1

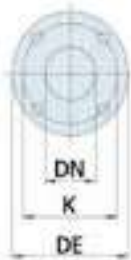
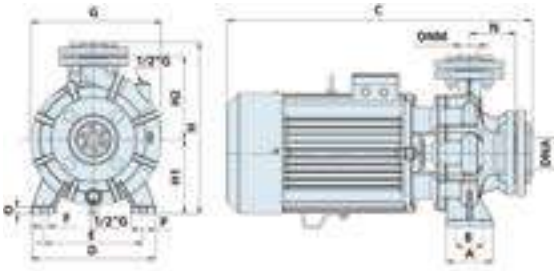


STANDARDISED ENBLOC (EN733 – DIN24255)

- Industry
- Agriculture
- Processing
- Hot water
- Transfer
- Circulation



CS 40-200 A



DIMENSIONS (MM)				
DN	DE	K	holes	
			qty	Ø
40	150	110	4	18
65	185	145	4	18

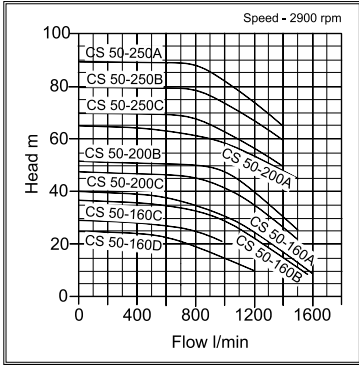
item code	model (3PH 230V-400V)	output (kW)	flow (l/min)	head (mtrs)	DNM	DNA	A	B	C	D	E	F	G	H	H1	H2	N	O	P	weight (kgs)	price (£)	code
19-15-1282	CS 40-160 B	3	900	32	40	65	100	70	550	240	190	15	240	322	132	160	80	15	50	47	656.00	1
19-15-1087	CS 40-160 A	4	970	34	40	65	100	70	550	240	190	15	240	322	132	160	80	15	50	50	677.00	1
19-15-1252	CS 40-200 B	5.5	1200	46	40	65	100	70	640	265	212	15	281	370	160	180	100	15	50	65	926.00	1
19-15-1094	CS 40-200 A	7.5	1230	57	40	65	100	70	640	265	212	15	281	370	160	180	100	15	50	71	956.00	1
19-15-1247	CS 40-250 B	11	1000	72	40	65	125	95	745	320	250	15	335	435	180	225	100	18	65	91	1,219.00	1
19-15-1171	CS 40-250 A	15	1050	90	40	65	125	95	745	320	250	15	335	435	180	225	100	18	65	121	1,736.00	1

CS 50

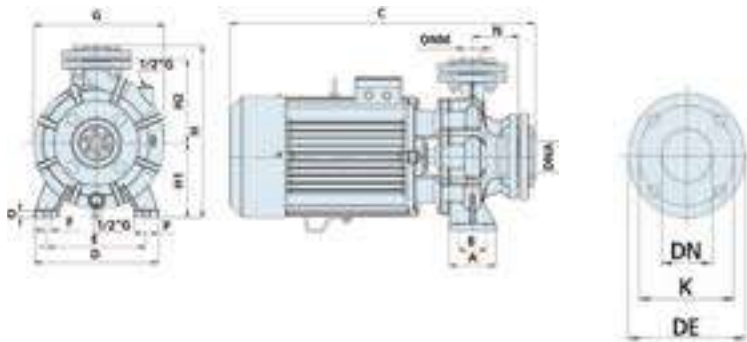


STANDARDISED ENBLOC (EN733 – DIN24255)

- Industry
- Agriculture
- Processing
- Hot water
- Transfer
- Circulation



CS 50-250 C



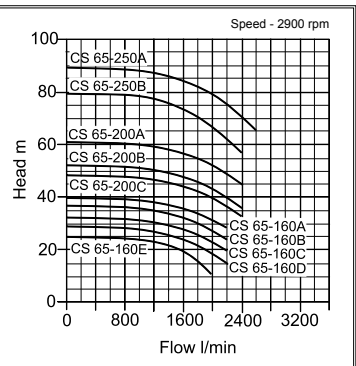
DIMENSIONS (MM)				
DN	DE	K	holes	
			qty	Ø
50	165	125	4	18
65	185	145	4	18

item code	model (3PH 230V-400V)	output (kW)	flow (l/min)	head (mtrs)	DNM	DNA	A	B	C	D	E	F	G	H	H1	H2	N	O	P	weight (kgs)	price (£)	code
19-15-1221	CS 50-160 D	3	1200	25	50	65	100	70	570	265	212	15	268	372	160	180	100	15	50	50	656.00	1
19-15-1066	CS 50-160 C	4	1000	30	50	65	100	70	570	265	212	15	268	372	160	180	100	15	50	60	680.00	1
19-15-1011	CS 50-160 B	5.5	1600	37	50	65	100	70	650	265	212	15	268	372	160	180	100	15	50	65	922.00	1
19-15-1098	CS 50-160 A	7.5	1600	40	50	65	100	70	650	265	212	15	268	372	160	180	100	15	50	71	967.00	1
19-15-1129	CS 50-200 C	9.2	1500	48	50	65	100	70	745	265	212	15	335	425	160	200	100	18	50	82	1,124.00	1
19-15-1054	CS 50-200 B	11	1500	52	50	65	100	70	745	265	212	15	335	425	160	200	100	18	50	89	1,184.00	1
19-15-1251	CS 50-200 A	15	1500	65	50	65	100	70	745	265	212	15	335	425	160	200	100	18	50	122	1,628.00	1
19-15-1073	CS 50-250 C	15	1400	70	50	65	125	95	750	320	250	15	340	435	180	225	100	18	65	125	1,702.00	1
19-15-1016	CS 50-250 B	18.5	1400	80	50	65	125	95	795	320	250	15	340	435	180	225	100	18	65	140	1,863.00	1
19-15-1256	CS 50-250 A	22.5	1400	90	50	65	125	95	825	320	250	15	360	455	180	225	100	18	65	149	2,058.00	1

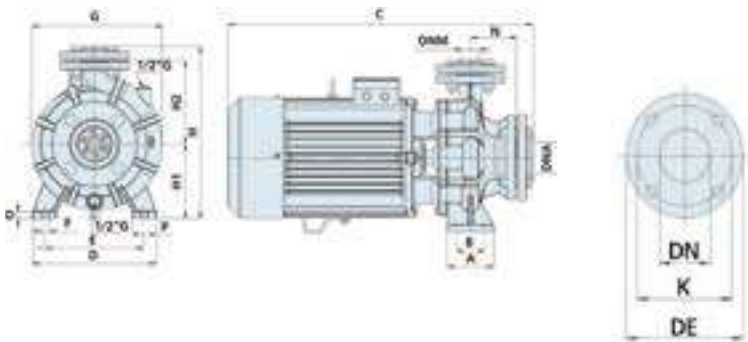


STANDARDISED ENBLOC (EN733 – DIN24255)

- Industry
- Agriculture
- Processing
- Hot water
- Transfer
- Circulation



CS 65-160 C



DIMENSIONS (MM)				
DN	DE	K	holes	
			qty	Ø
65	185	145	4	18
80	200	160	8	18

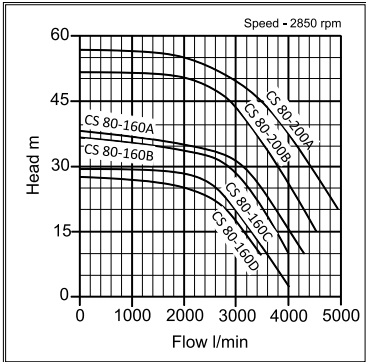
item code	model (3PH 230V-400V)	output (kW)	flow (l/min)	head (mtrs)	DNM	DNA	A	B	C	D	E	F	G	H	H1	H2	N	O	P	weight (kgs)	price (£)	code
19-15-1039	CS 65-160 E	5.5	2000	25	65	80	125	95	610	280	212	15	295	395	160	200	100	18	65	70	951.00	1
19-15-1015	CS 65-160 D	7.5	2200	29	65	80	125	95	610	280	212	15	295	395	160	200	100	18	65	80	1,002.00	1
19-15-1113	CS 65-160 C	9.2	2200	33	65	80	125	95	750	280	212	15	340	425	160	200	100	18	65	84	1,125.00	1
19-15-1286	CS 65-160 B	11	2200	36	65	80	125	95	750	280	212	15	340	425	160	200	100	18	65	90	1,184.00	1
19-15-1058	CS 65-160 A	15	2200	40	65	80	125	95	750	280	212	15	340	425	160	200	100	18	65	120	1,615.00	1
19-15-1002	CS 65-200 C	15	2400	48	65	80	125	95	745	320	250	15	335	445	180	225	100	18	65	122	1,639.00	1
19-15-1088	CS 65-200 B	18.5	2400	53	65	80	125	95	790	320	250	15	335	445	180	225	100	18	65	138	1,831.00	1
19-15-1187	CS 65-200 A	22.5	2400	61	65	80	125	95	825	320	250	15	360	455	180	225	100	18	65	148	1,995.00	1
19-15-1076	CS 65-250 B	30	2400	79	65	80	160	120	825	360	280	18	370	485	200	250	100	18	85	235	4,415.00	1
19-15-1180	CS 65-250 A	37	2600	89	65	80	160	120	825	360	280	18	370	485	200	250	100	18	85	250	4,738.00	1

CS 80

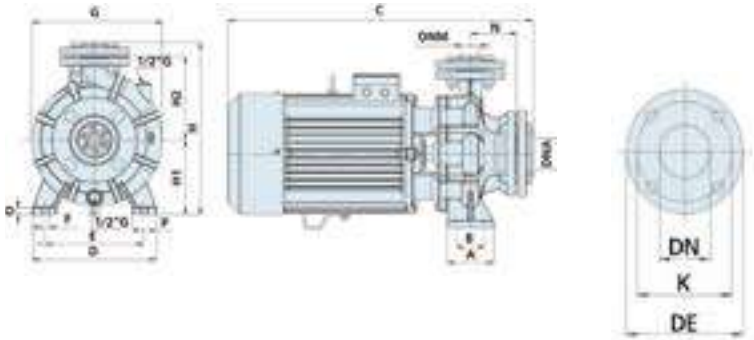


STANDARDISED ENBLOC (EN733 – DIN24255)

- Industry
- Agriculture
- Processing
- Hot water
- Transfer
- Circulation



CS 80-200 B



DIMENSIONS (MM)				
DN	DE	K	holes	
			qty	Ø
80	200	160	8	18
100	225	180	8	18

item code	model (3PH 230V-400V)	output (kW)	flow (l/min)	head (mtrs)	DNM	DNA	A	B	C	D	E	F	G	H	H1	H2	N	O	P	weight (kgs)	price (£)	code
19-15-1244	CS 80-160 D	11	3500	28	80	100	125	95	790	320	250	15	350	445	180	225	125	18	65	99	1,248.00	1
19-15-1026	CS 80-160 C	15	4000	30	80	100	125	95	790	320	250	15	350	445	180	225	125	18	65	129	1,701.00	1
19-15-1200	CS 80-160 B	18.5	4000	37	80	100	125	95	835	320	250	15	350	445	180	225	125	18	65	143	1,819.00	1
19-15-1061	CS 80-160 A	22.5	4350	39	80	100	125	95	870	320	250	15	360	445	180	225	125	18	65	152	2,083.00	1
19-15-1271	CS 80-200 B	30	4550	53	80	100	125	95	900	345	280	15	360	470	180	250	125	18	65	233	4,091.00	1
19-15-1165	CS 80-200 A	37	5000	57	80	100	125	95	900	345	280	15	360	470	180	250	125	18	65	247	4,415.00	1



CX SERIES

STAINLESS STEEL ENBLOC

The CX series are single-stage, mono-bloc, centrifugal pumps with all the components that are in contact with the liquid constructed in 304 stainless steel. They have a “back pull out” design, for ease of maintenance, which enables the pump body to be removed without disconnecting it from the pipework. It also allows the unit to be installed in any position except with the inlet facing down. Mechanical seals are ceramic graphite and NBR. They have 2 pole motors, with class F insulation and IP55 protection. They are designed for pumping clean water, at temperatures up to a maximum of 90°C (ambient 40 °C). With the addition of a foot-valve, they are capable of a suction lift of 7 metres. They are designed for hot and cold water circulation, water supply and transfer in industrial and agricultural applications.

- Industry
- Agriculture
- Processing
- Hot water
- Transfer
- Circulation

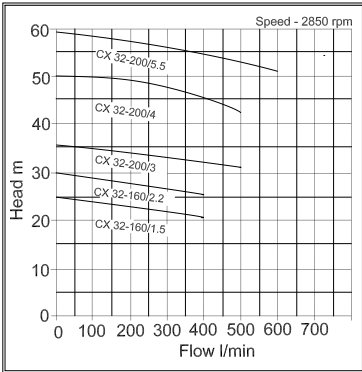


CX Series

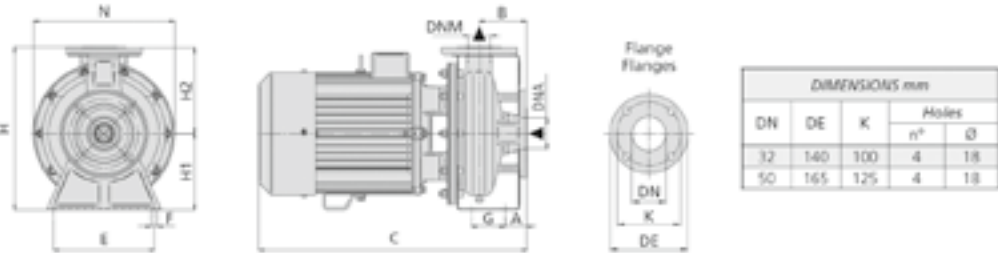
CX 32

STAINLESS STEEL ENBLOC

- Industry
- Agriculture
- Processing
- Hot water
- Transfer
- Circulation



CX32 series

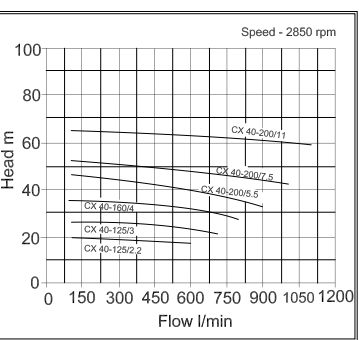


item code	model (3PH 230V-400V)	output (kW)	flow (l/min)	head (mtrs)	DNM	DNA	A	B	C	E	F	G	H	H1	H2	N	weight (kgs)	price (£)	code
19-15-1135	CX32-160/1.5	1.5	400	26	32	50	34	80	440	160	15	70	260	112	140	213	23	671.00	1
19-15-1043	CX32-160/2.2	2.2	400	30	32	50	34	80	440	160	15	70	260	112	140	213	26	696.00	1
19-15-1124	CX32-200/3	3.0	500	37	32	50	34	83	482	212	15	70	347	160	187	297	41	898.00	1
19-15-1174	CX32-200/4	4.0	500	52	32	50	34	83	510	212	15	70	347	160	187	297	50	1,003.00	1
19-15-1062	CX32-200/5.5	5.5	600	58	32	50	34	83	540	212	15	70	350	160	187	297	68	1,338.00	1

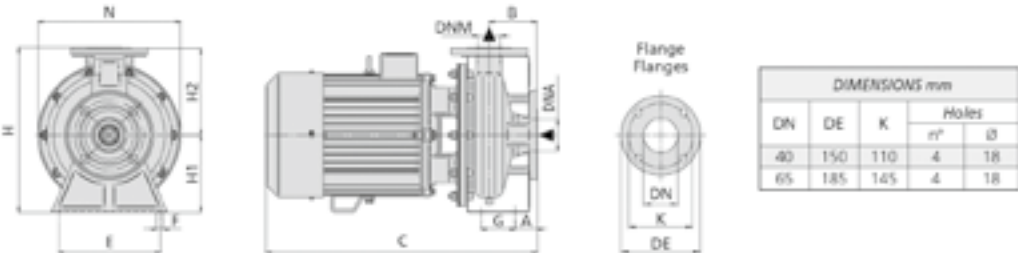
CX 40

STAINLESS STEEL ENBLOC

- Industry
- Agriculture
- Processing
- Hot water
- Transfer
- Circulation



CX40 series

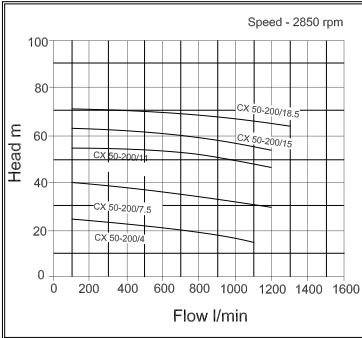


item code	model (3PH 230V-400V)	output (kW)	flow (l/min)	head (mtrs)	DNM	DNA	A	B	C	E	F	G	H	H1	H2	N	weight (kgs)	price (£)	code
19-15-1036	CX40-125/2.2	2.2	600	22	40	65	34	79	441	160	15	70	255	112	142	213	26	712.00	1
19-15-1161	CX40-125/3	3.0	700	27	40	65	34	79	478	160	15	70	255	112	142	213	33	829.00	1
19-15-1123	CX40-160/4	4.0	800	33	40	65	34	79	501	160	15	70	280	112	142	230	38	914.00	1
19-15-1157	CX40-200/5.5	5.5	900	44	40	65	47	99	565	212	15	70	345	160	184	297	62	1,296.00	1
19-15-1136	CX40-200/7.5	7.5	1000	54	40	65	47	99	565	212	15	70	345	160	184	297	67	1,334.00	1
19-15-1001	CX40-200/11	11.0	1100	65	40	65	47	99	705	212	15	70	410	160	184	315	104	1,636.00	1

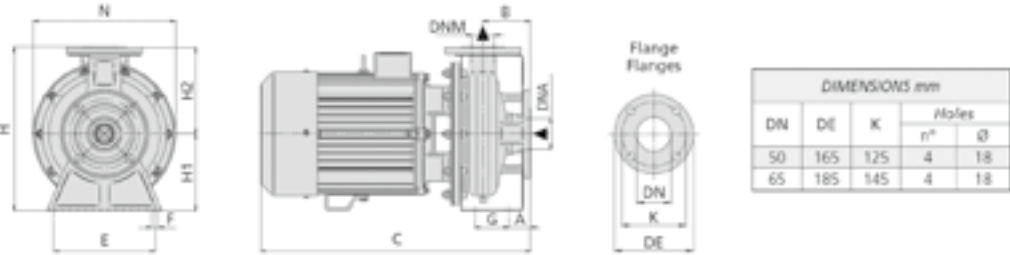
CX 50

STAINLESS STEEL ENBLOC

- Industry
- Agriculture
- Processing
- Hot water
- Transfer
- Circulation



CX50 series

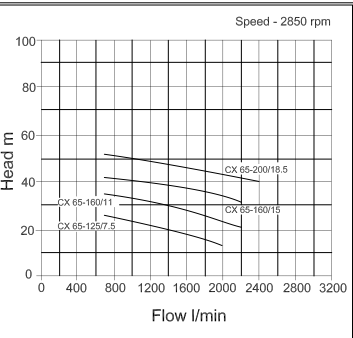


item code	model (3PH 230V-400V)	output (kW)	flow (l/min)	head (mtrs)	DNM	DNA	A	B	C	E	F	G	H	H1	H2	N	weight (kgs)	price (£)	code
19-15-1055	CX50-125/4	4.0	1100	27	50	65	42	85	520	212	15	70	300	132	165	254	45	988.00	1
19-15-1075	CX50-200/7.5	7.5	1200	41	50	65	47	99	565	212	15	70	350	160	180	297	67	1,360.00	1
19-15-1003	CX50-200/11	11	1200	55	50	65	47	99	706	212	15	70	410	160	180	315	103	1,625.00	1
19-15-1153	CX50-200/15	15	1200	63	50	65	47	99	706	212	15	70	410	160	180	315	111	1,710.00	1
19-15-1139	CX50-200/18.5	18.5	1300	71	50	65	47	99	751	212	15	70	410	160	180	315	124	1,806.00	1

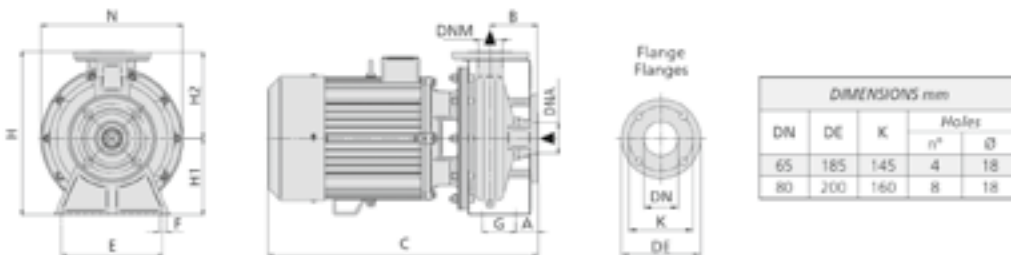
CX 65

STAINLESS STEEL ENBLOC

- Industry
- Agriculture
- Processing
- Hot water
- Transfer
- Circulation



CX65 series

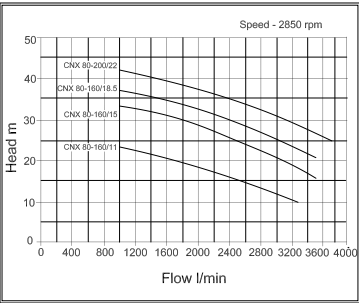


item code	model (3PH 230V-400V)	output (kW)	flow (l/min)	head (mtrs)	DNM	DNA	A	B	C	E	F	G	H	H1	H2	N	weight (kgs)	price (£)	code
19-15-1152	CX65-125/7.5	7.5	2000	27	65	80	53	100	570	212	15	95	350	160	180	283	64	1,530.00	1
19-15-1155	CX65-160/11	11.0	2200	35	65	80	53	100	714	212	15	95	410	160	200	315	103	1,955.00	1
19-15-1093	CX65-160/15	15.0	2200	42	65	80	53	100	714	212	15	95	410	160	200	315	113	2,082.00	1
19-15-1004	CX65-200/18.5	18.5	2400	53	65	80	53	100	760	250	15	95	430	180	225	333	130	2,231.00	1

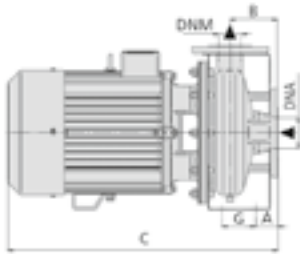
CX 80

STAINLESS STEEL ENBLOC

- Industry
- Agriculture
- Processing
- Hot water
- Transfer
- Circulation



CX80 series



DIMENSIONS mm				
DN	DE	K	Holes	
			mm	Ø
80	200	160	8	18
100	225	180	8	18

item code	model (3PH 230V-400V)	output (kW)	flow (l/min)	head (mtrs)	DNM	DNA	A	B	C	E	F	G	H	H1	H2	N	weight (kgs)	price (£)	code
19-15-1196	CX80-160/11	11.0	3250	26	80	100	78	125	743	250	15	95	430	180	225	333	105	2,050.00	1
19-15-1128	CX80-160/15	15.0	3500	34	80	100	78	125	743	250	15	95	430	180	225	333	114	2,135.00	1
19-15-1081	CX80-160/18.5	18.5	3500	37	80	100	78	125	790	250	15	95	430	180	225	333	126	2,284.00	1
19-15-1069	CX80-200/22	22.5	3750	41	80	100	78	125	830	280	15	95	445	180	250	360	188	2,974.00	1



HG(M)50 • HG(M)80

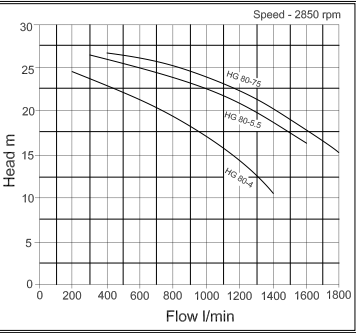
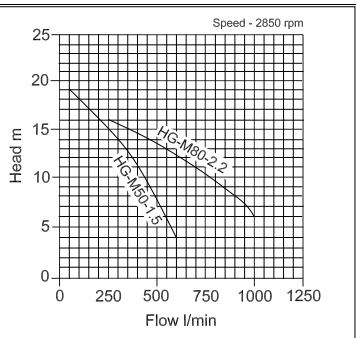
SELF-PRIMING 600 to 1600 LITRES

The HG(M)50 and HG80 are self priming, mono-bloc, centrifugal pumps with pump bodies, motor supports and open impellers in cast iron. The design incorporates a rubber check valve, to maintain the priming water level, and enable automatic priming during starting even when the inlet pipe is empty. The stainless steel shafts are fitted with carbon ceramic and NBR mechanical seals. Motors are continuously rated and have IP55 protection. Single phase motors incorporate an overload protection device. They are designed for pumping dirty water, without abrasive particles, at temperatures up to 90°C. They are capable of a suction lift of 7 metres. They are designed for many industrial and agricultural applications.

- Industry
- Agriculture
- Hire fleets
- Drainage
- Transfer
- Irrigation



HG(M)50-1.5

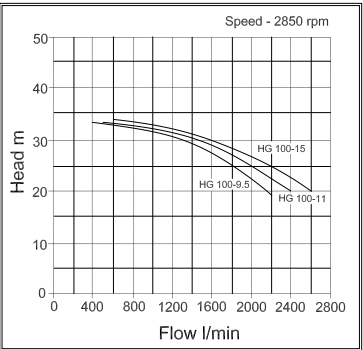


item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1175	HGM50-1.5	2"	2"	1.5	110	600	19	193x412x302	28	483.00	1
19-15-1216	HGM50-1.5	2"	2"	1.5	230	600	19	193x412x302	28	439.00	1
19-15-1249	HG50-1.5	2"	2"	1.5	400	600	19	193x412x302	28	403.00	1
19-15-1212	HGM80-2.2	3"	3"	2.2	230	1000	16	193x598x312	36	561.00	1
19-15-1134	HG80-2.2	3"	3"	2.2	400	1000	16	193x598x312	36	537.00	1
19-15-1020	HG80-4	3"	3"	4.0	400	1400	24	277x629x443	75	1,074.00	1
19-15-1219	HG80-5.5	3"	3"	5.5	400	1600	27	277x676x443	89	1,351.00	1
19-15-1156	HG80-7.5	3"	3"	7.5	400	1800	28	277x676x443	92	1,452.00	1

HG100

SELF-PRIMING 2200 to 2600 LITRES

- Industry
- Agriculture
- Hire fleets
- Drainage
- Transfer
- Irrigation



The **HG100** are self priming, mono-bloc, centrifugal pumps with pump bodies, motor supports and open impellers in cast iron. The design incorporates a rubber check valve, to maintain the priming water level, and enable automatic priming during starting even when the inlet pipe is empty. The stainless steel shafts are fitted with carbon ceramic and NBR mechanical seals. Motors are continuously rated and have IP55 protection. They are designed for pumping dirty water, without abrasive particles, at temperatures up to 90°C. They are capable of a suction lift of 7 metres. They are designed for many industrial and agricultural applications where large volumes of water need to be pumped.



HG100-9.5

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1013	HG100-9.5	4"	4"	9.2	400	2200	33	315x875x541	126	2,209.00	1
19-15-1109	HG100-11	4"	4"	11.0	400	2400	33	315x875x541	133	2,247.00	1
19-15-1060	HG100-15	4"	4"	15.0	400	2600	34	315x875x541	164	2,373.00	1



The **HGMG** are self priming, mono-bloc, centrifugal trash pumps with pump bodies, motor supports and open impellers in cast iron. The design incorporates a rubber check valve, to maintain the priming water level, and enable automatic priming during starting even when the inlet pipe is empty. The stainless steel shafts are fitted with carbon ceramic and NBR mechanical seals. Motors are continuously rated, have IP55 protection and incorporate an overload protection device. They are designed for pumping dirty water, with solids in suspension, at temperatures up to 90°C. The trash pump design incorporates a removable cover for clearing debris. Solids capacity: 22mm (1.5kW) and 32mm (2.2kW) They are capable of a suction lift of 7 metres. They are designed for many industrial and agricultural applications where large volumes of water need to be pumped.

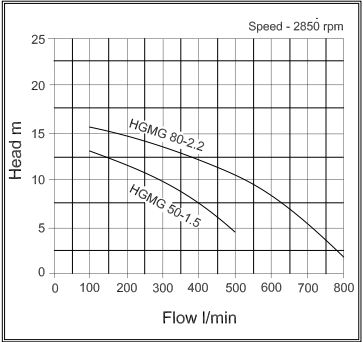


HGMG80-2.2

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1146	HGMG50-1.5	2"	2"	1.5	230	500	13	207x420x310	30	764.00	1
19-15-1082	HGMG80-2.2	3"	3"	2.2	230	800	16	245x470x315	36	871.00	1

SELF-PRIMING & TRASH

- Industry
- Agriculture
- Hire fleets
- Drainage
- Transfer
- Irrigation



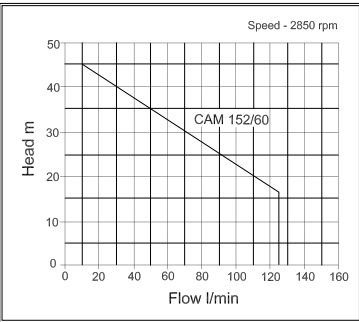
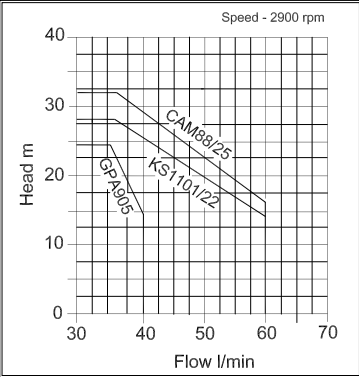
CAM/25 & 60 • KS/22 • GPA90(S)



CAM-X

STEEL VESSELS

- Industry
- Households
- Boosting
- Water supply
- Washdown



The **KS1101/22**, **CAM88/25** and **CAM152/60** incorporate self-priming “jet” pumps with pressure vessels (fitted with butyl diaphragms), pressure gauges, adjustable pressure switches and non-return valves ready assembled for installation. The pumps are fitted with thermoplastic venturis and impellers. They have stainless steel shafts, fitted with carbon ceramic mechanical seals, and have IP44 rated motors. **KS** has a thermoplastic pump casing and a 22 litre steel pressure vessel, the **CAM88** has a 304 stainless steel pump casing and a 25 litre steel pressure vessel while the **CAM152** has a cast iron pump casing and a 60 litre steel pressure vessel. They are designed for pumping clean water only at a maximum temperature of 35°C. Capable of 8 metre suction lifts. Suitable for domestic water boosting, pressurised water supply to mobile toilets and shower blocks, irrigation and for wash-down. The **CAM88/25** is available with an optional steel protection frame for portable use.

The **GPA90(S)** is a booster set for water supply systems where space is at a premium. It incorporates a peripheral pump, with a frontal suction port, which has a 304 stainless steel pump body and impeller. The shaft is 410 stainless steel and is fitted with a silicon carbide mechanical seal. Elastomers are in Viton and the motor is rated at IP45. The pressure vessel has a 2 litre capacity for applications where buffering of the water supply is necessary. This vessel reduces pump on/off cycles, saves energy and protects the pump from water hammer, thus extending its service life. With 304 stainless steel connections, a high grade butyl bladder and a polypropylene liner, there is no water contact with the steel vessel creating an uncontaminated water path. Suitable for liquid temperatures up to 60°C. Can be used for domestic water boosting and pressurised water supply of mobile toilets and shower blocks.



GPA90(S)



KS1101/22



CAM88/25



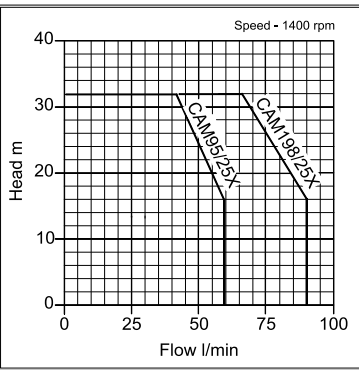
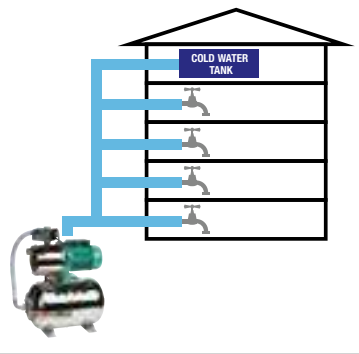
CAM152/60

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	switch pre-set (bar)	vessel size (litres)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
15-15-1000	GPA90(S)	1"	1"	0.20	110	40	24	1.4(on)-2.4(off)	2	140x320x410	7.50	223.00	4
15-15-1006	GPA90(S)	1"	1"	0.20	230	40	24	1.4(on)-2.4(off)	2	140x320x410	7.50	223.00	4
19-15-1158	KS1101/22	1" (M)	1" (M)	0.75	230	60	28	1.4(on)-2.8(off)	22	270x480x500	15.10	253.00	1
19-15-1285	CAM88/25	1"	1"	0.75	110	60	32	1.6(on)-3.2(off)	25	270x530x540	17.00	322.00	1
19-15-1115	CAM88/25	1"	1"	0.75	230	60	32	1.6(on)-3.2(off)	25	270x530x540	17.00	306.00	1
19-15-1107	CAM152/60	1½"	1"	1.50	230	125	32	1.6(on)-3.2(off)	60	380x748x698	56.00	507.00	1
12-85-1027	Optional extra: full protection frame, CAM88/25 (type: FR003).									400x600x600	7.20	75.00	2

The **CAM-X** series incorporate self-priming “jet” pumps with pressure vessels (fitted with butyl diaphragms), pressure gauges, adjustable pressure switches and non-return valves ready assembled for installation. The pumps have 304 stainless steel bodies and are fitted with thermoplastic venturis and impellers. They have stainless steel shafts, fitted with carbon ceramic mechanical seals, and have IP44 rated motors. These models feature 25 litre pressure vessels, in 304 stainless steel, with butyl diaphragms. They are designed for pumping clean water only at a maximum temperature of 35°C. Maximum recommended suction lift is 8 metres. Suitable for industrial water boosting, washing systems, irrigation and for wash-down.



- Industry
- Domestic
- Boosting
- Irrigation
- Welfare units
- Washdown

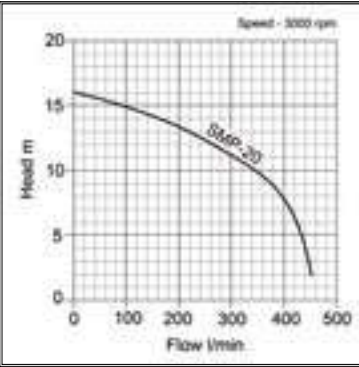


item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	switch pre-set (bar)	vessel size (litres)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1255	CAM 95/25X	1"	1"	0.75	230	60	32	1.6(on)-3.2(off)	25	270x530x575	16.70	370.00	1
19-15-1110	CAM 198/25X	1½"	1"	1.1	230	90	32	1.6(on)-3.2(off)	25	270x530x575	19.90	448.00	1

SMP

24 HOUR RUNNING

- Domestic
- Commercial
- Private pools
- Public pools
- Water features
- Ponds



The *SMP20* series is a quiet, swimming pool pump with a thermoplastic body and impeller. It has a 410 stainless steel shaft, which is fitted with a carbon ceramic mechanical seal and it has a IP55 rated motor. It is designed for pumping chlorinated water, sea water and dirty water containing small, non-abrasive, solids in suspension. Maximum liquid temperature is 60°C. Fitted with a clear plastic inspection cover and a removable filter basket for catching debris and supplied with pipe unions for ABS pipe.



SMP-20

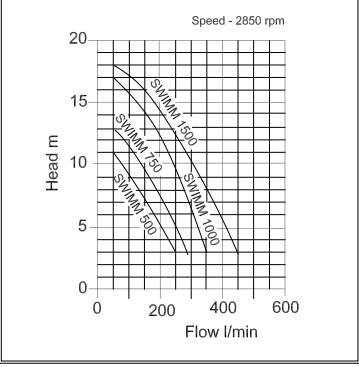
item code	model	inlet ABS (mm)	outlet ABS (mm)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
15-15-1005	SMP-20	60.4	60.4	1.50	230	450	16	280x680x355	17.80	306.00	1



SWIMM

24 HOUR RUNNING

- Domestic
- Commercial
- Private pools
- Public pools
- Water features
- Ponds



The *Swimm* range offers unobtrusive pumping of chlorinated water and dirty water containing small, non-abrasive, solids in suspension. They have thermoplastic pump bodies and impellers, 304 stainless steel shafts, with silicon carbide and NBR mechanical seals. They can pump water temperatures from + 5°C to + 35°C. Motor protection is rated at IP55. The design features translucent inspection covers and removable filter baskets for trapping debris.



Swimm 500

item code	model	inlet ABS (mm)	outlet ABS (mm)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
19-15-1063	Swimm 500	48.3	48.3	0.37	230	250	11	160x465x234	8.10	181.00	1
19-15-1140	Swimm 750	48.3	48.3	0.55	230	275	13	220x502x270	9.50	211.00	1
19-15-1283	Swimm 1000	48.3	48.3	0.75	230	350	17	220x502x270	11.30	234.00	1
19-15-1211	Swimm 1500	60.4	60.4	1.10	230	450	18	238x520x331	14.90	245.00	1

SEDIMENT FILTER

100 MICRON FILTER

- Hire fleet
- Site drainage
- Pond drainage
- Professional use

The Environment Agency (EA) states that site water must not be discharged off construction sites without control as this water can kill aquatic life and damage river beds and banks.

The **Sediment filter** sack is a filtration system, accepted by the EA, that controls flows and cleanses the water of silt and sediment and can detect the presence of hydrocarbons. With a robust casing, nylon lifting straps and a 20kgs capture weight, it enables the simple and safe disposal of silt by one person. Most effective when used with 50mm (2") to 80mm (3") pumps, e.g. 1 phase submersibles, small 3 phase submersibles and most engine driven pumps.



item code	type	colour	duty	wxhxh (mm)	Weight (Kgs)	Price (£)	code
12-85-1057	Sediment filter, budget	Black	sediment capture c/w hydrocarbon detector	350x1240x10	0.30	36.00	3
12-85-1042	Sediment filter, h/duty	Green	sediment capture c/w hydrocarbon detector	350x1240x15	0.40	73.00	3
12-85-1047	Sediment & oil filter	Orange	sediment and hydrocarbon capture*	350x1240x20	0.75	138.00	3
* when used in conjunction with the C.I. Agent Polymer							

ENVIROPAD

3 TO 28 LITRE RETENTION

- Hire fleet
- Plant depot
- Professional use

The **EnviroPad** is a revolutionary form of drip tray that uses unique polymer technology to capture and retain spills of oil, diesel and petrol from small, engine driven, products and containers. These hydrocarbons are instantly solidified into the pad, and become non-leaching, preventing pollution of the environment. Once completely solidified the pad can be disposed of with standard hazardous waste.

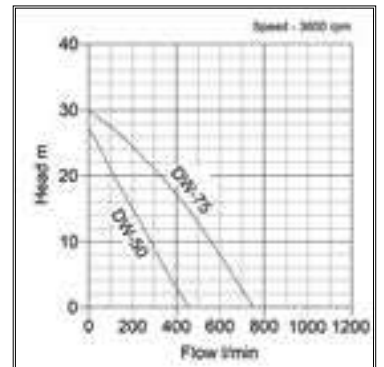
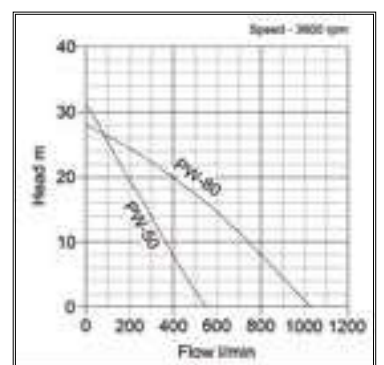


item code	type	retention volume (litres)	size (mm)	Weight (Kgs)	Price (£)	code
12-85-1017	small	3	610x460	0.50	60.00	3
12-85-1053	medium	7	900x690	0.75	123.00	3
12-85-1014	large	28	1370x2140	1.00	432.00	3


PW • DW
CENTRIFUGAL - DIRTY WATER

The **PW** and **DW** are self-priming, centrifugal pumps powered by high quality petrol and diesel engines. They have carbon ceramic mechanical seals and lightweight, aluminium pump housings, to assist portability. For increased abrasion resistance, they have cast iron volutes and impellers, for the pumping of clear and dirty water. All models are housed within a protective tubular steel, easy carry frame which has anti-vibration mounts fitted. Petrol driven models are fitted with oil alerts, to protect the engines from misuse. Maximum suction lift is 7 metres, however 6 metres, or less, is recommended. Hose couplings, washers, clips and strainers are supplied with all pumps, but hoses are extra.

- Hire fleets
- Construction
- Utilities
- Drainage
- Transfer


PW50

DW50


item code	model	inlet (mm)	outlet (mm)	fuel	HP	oil alert	flow (l/min)	head (mtrs)	solids (mm)	w x l x h (mm)	dry weight (kgs)	Price	code
12-20-1007	PW50	50	50	Petrol	6.5	yes	550	30	4	375x470x400	23.3	169.00	3
12-20-1008	PW80	75	75	Petrol	6.5	yes	1000	28	4	395x525x440	29.0	199.00	3
12-20-1009	DW50	50	50	Diesel	5.4	no	450	27	10	423x501x520	43.7	499.00	3
12-20-1010	DW75	75	75	Diesel	5.4	no	750	30	10	540x575x595	49.8	659.00	3

WX • WB



CENTRIFUGAL - SITE WATER

- Hire fleets
- Construction
- Utilities
- Drainage
- Irrigation
- Wash down



Residue pumping kit: engine pumps, with their traditional strainers, will always leave a few inches deep of water behind when pumping off a flat surface. Some areas e.g. within reinforcing, under floors etc., are inaccessible to most submersible residue pumps and can be a little heavy too. For use with 25mm (1") centrifugal pumps, this kit will enable the pumping of water levels down to 3mm and the floor tool can be moved from puddle to puddle while the engine is still running. For pumping of site water it can suck up to 6 metres, but 4 metres is recommended. The tool is 140mm wide and weighs only 1kg so is great for inaccessible areas. The kit comprises floor tool, strainer and 4 metre suction kit with air-tight connectors.

The **WX** and **WB** pumps are self-priming, centrifugal pumps with Honda 4 stroke petrol engines, from the Honda Power Equipment range. All models have aluminium pump housings for portability and ceramic mechanical seals for reliability. The **WX10** has an aluminium impeller and volute while the **WB20** and **30** are in cast iron. **WB** models have oil alert.

A dual fuel **LPG conversion kit** will enable a Honda engine driven pump (fitted with GX120, GX160, GX240 or GX340) to run on a propane cylinder bottle, but with the option to switch back to petrol if required. Using gas reduces running costs and lowers emissions without any loss of performance. Gas also avoids the problems caused by stale fuel in an engine left unused for long periods and the hazards of petrol storage and refuelling. Supplied in kit form, with step-by-step instructions, they are easy to fit without any special tools.

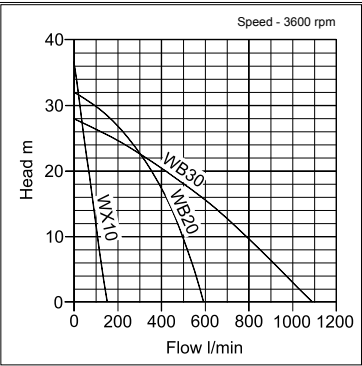


WX10

WB20



LPG conversion kit



item code	model	inlet (mm)	outlet (mm)	engine	fuel	HP	oil alert	flow (l/min)	head (mtrs)	solids (mm)	w x l x h (mm)	dry weight (kgs)	Price	code
13-20-1002	WX10	25	25	GX25	petrol	1.5	no	142	36	5	220x325x300	6.0	366.00	3
13-20-1001	WB20	50	50	GX120	petrol	4.0	yes	590	32	6	365x455x420	21.0	357.00	3
13-20-1000	WB30	75	75	GX160	petrol	5.5	yes	1090	28	6	385x510x455	26.0	478.00	3
26-85-1001	Optional extra: residue pumping adaptor kit for 25mm centrifugal pumps only											1.0	120.00	3
N/A	LPG gas conversion kit (GX120 & GX160)											2.0	175.00	3



TE

CENTRIFUGAL - SITE WATER

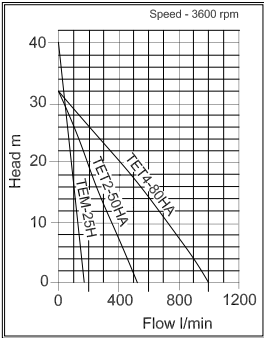
- Hire fleets
- Construction
- Utilities
- Drainage
- Irrigation
- Wash down

The **TEM-25H** is a self-priming centrifugal pump, powered by a compact and powerful 4 stroke, genuine Honda, petrol engine. This is coupled to a pump end that has an aluminium body, volute and impeller, which ensure that it is light, compact and portable. It is fitted to a sturdy base plate, with rubber feet to minimize vibration and has a comfortable, yet robust, carrying handle. For reliability, the pump is fitted with a carbon ceramic mechanical seal. Suitable for clean and dirty water, it has high head capabilities and gives a good flow of water. It's neat size and performance makes it popular for irrigation, sprinkling, flooded pit drainage, washing down and general pumping. It is not fitted with an engine oil alert system. Maximum suction lift is 8 metres, however, 6 metres, or less, is recommended. Hose couplings, washers, clips and strainers are supplied, but hoses are extra.

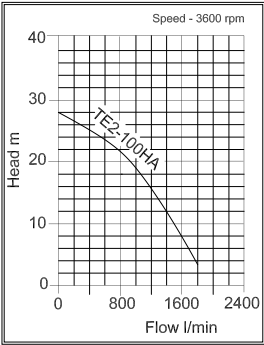
The models **TET2-50HA**, **TE4-80HA** and **TE2-100HA** are all self-priming pumps and are powered by genuine Honda 4 stroke OHV petrol engines. They have carbon ceramic mechanical seals and lightweight, aluminium pump housings, to assist portability. For increased abrasion resistance, they have cast iron volutes and impellers. These materials ensure maximum durability for the pumping of clear and black water as found on building sites. All models are housed within a protective tubular steel, easy carry frame which has anti-vibration mounts fitted. They are fitted with oil alerts, to protect the engines from misuse. These are popular pumps are used by Utilities and are found on many UK hire fleets. Maximum suction lift is 8 metres, however, 6 metres, or less, is recommended. Hose couplings, washers, clips and strainers are supplied with all pumps, but hoses are extra.

To assist manual handling of the model **TE2-100HA** a two wheeled site trolley is available as an optional extra.

A dual fuel **LPG conversion kit** will enable a Honda engine driven pump (fitted with **GX120**, **GX160**, **GX240** or **GX340**) to run on a propane cylinder bottle, but with the option to switch back to petrol if required. Using gas reduces running costs and lowers emissions without any loss of performance. Gas also avoids the problems caused by stale fuel in an engine left unused for long periods and the hazards of petrol storage and refuelling. Supplied in kit form, with step-by-step instructions, they are easy to fit without any special tools.



TEM-25H



TET2-50HA



LPG conversion kit

item code	model	inlet (mm)	outlet (mm)	engine	fuel	HP	oil alert	flow (l/min)	head (mtrs)	solids (mm)	w x l x h (mm)	dry weight (kgs)	Price	code
18-20-1007	TEM-25H	25	25	GX25	petrol	1.5	no	140	40	5	215x340x270	5.00	321.00	3
18-20-1018	TET2-50HA	50	50	GX120	petrol	4	yes	520	32	6	356x470x350	22.00	337.00	3
18-20-1008	TE4-80HA	75	75	GX160	petrol	5.5	yes	1000	32	6	375x527x420	27.00	478.00	3
18-20-1021	TE2-100HA	100	100	GX240	petrol	8	yes	1800	28	6	650x470x620	44.00	1,159.00	3
N/A	optional extra: site trolley (TE2-100HA)											12.40	199.00	3
26-85-1001	optional extra: residue pumping adaptor kit for 25mm centrifugal pumps only											1.00	120.00	3
N/A	LPG gas conversion kit (GX120, GX160 & GX240)											2.00	175.00	3

TE-RD

CENTRIFUGAL - SITE WATER

- Hire fleets
- Construction
- Utilities
- Drainage
- Flood defence
- Transfer



TE series self-priming centrifugal, drainage pumps are powered by compact Subaru-Robin diesel engines. They have carbon ceramic mechanical seals, aluminium pump housings, and, for increased abrasion resistance, have cast iron volutes and impellers. These materials ensure maximum durability for the pumping of clear and black water as found on building sites. All models are housed within a protective tubular steel, easy carry frame. Maximum suction lift is 8 metres, however, 6 metres, or less, is recommended. They perform the same duties as petrol pumps but enjoy the economies of diesel fuel without the bulk of the traditional engine design. Hose couplings, washers, clips and strainers are supplied with all pumps, but hoses are extra. To assist manual handling, a two wheeled trolley is available as an optional extra.

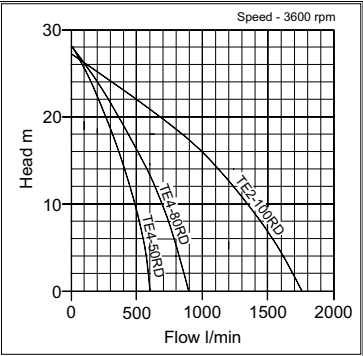
During 2019, pumps with Subaru-robin engines will no longer be available and will then be replaced by pumps powered by Yanmar L48 engines.



TE4-50RD



TE4-80RD
with trolley



item code	model	inlet (mm)	outlets (mm)	engine	fuel	HP	flow (l/min)	head (mtrs)	solids (mm)	w x l x h (mm)	dry weight (kgs)	Price	code
18-20-1015	TE4-50RD	50	50	DY23-2D	diesel	4.8	600	28	7	410x505x495	40	1,301.00	3
18-20-1013	TE3-50YD	50	50	L48	diesel	4.7	550	32	7	442x622x545	40	1,926.00	3
18-20-1006	TE4-80RD	75	75	DY23-2D	diesel	4.8	900	28	7	410x590x510	42	1,370.00	3
18-20-1017	TE3-80YD	75	75	L48	diesel	4.7	900	27	7	442x622x545	42	1,985.00	3
18-20-1012	TE2-100RD	100	100	DY27-2D	diesel	5.5	1750	27	7	410x680x590	50	1,839.00	3
N/A	optional extra: site trolley										12.4	199.00	3



TD

DIAPHRAGM - TRASH

- Hire fleets
- Construction
- Utilities
- Drainage
- Waste removal
- Submerged litter



The TD series are automatic priming, diaphragm pumps powered by OHV Honda petrol engines (with oil alert). They are fitted with nitrile rubber diaphragms, so priming is unnecessary and indefinite dry running is permissible. They can handle site water containing sand, silt and solids up to 30mm. The inlet and outlet ports, pump casings and surge reduction chambers are all constructed from aluminium. The rubber diaphragm and check valves are replaceable for easy on site repair, while the gear unit is maintenance free and is grease filled during factory assembly. Each model has a protective tubular steel, easy carry, frame with anti-vibration rubber mounts. A site trolley is available as an optional extra. All models are supplied with a suction strainer, hose couplings, washers and clips, but hoses are extra. A quick release cam coupling kit, with heavy duty hose clamps, is an optional extra for operator convenience. Maximum suction lift is 8 metres, however, 6 metres, or less, is recommended. This popular series of pumps are widely used by utilities and regularly found on hire fleets.

A dual fuel **LPG conversion kit** will enable a Honda engine driven pump (fitted with GX120, GX160, GX240 or GX340) to run on a propane cylinder bottle, but with the option to switch back to petrol if required. Using gas reduces running costs and lowers emissions without any loss of performance. Gas also avoids the problems caused by stale fuel in an engine left unused for long periods and the hazards of petrol storage and refuelling. Supplied in kit form, with step-by-step instructions, they are easy to fit without any special tools.



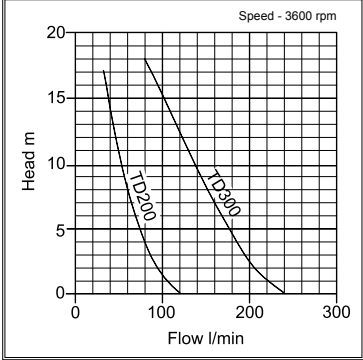
TD200 with trolley



TD300



LPG conversion kit



Quick release coupling kit

item code	model	inlet (mm)	outlet (mm)	engine	fuel	HP	oil alert	flow (l/min)	head (mtrs)	w x l x h (mm)	solids (mm)	dry weight (kgs)	Price (£)	code
18-20-1011	TD200	50	50	GX120	petrol	4	yes	120	17	610x620x510	30	39	1,251.00	3
18-20-1000	TD300	75	75	GX160	petrol	5.5	yes	240	18	740x660x510	30	46	1,502.00	3
130050	optional extra: 50mm quick release coupling kit (2 x Part C, 2 x Part A, 3 x hose clamps)											1.4	30.00	3
130080	optional extra: 80mm quick release coupling kit (2 x Part C, 2 x Part A, 3 x hose clamps)											2.4	45.00	3
N/A	optional extra: site trolley (TD200 & TD300)											12.4	199.00	3
N/A	LPG gas conversion kit (GX120 & GX160)											2.0	175.00	3

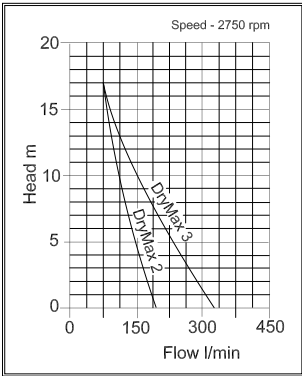
DRYMAX

DIAPHRAGM - TRASH

- Hire fleets
- Construction
- Utilities
- Drainage
- Waste removal
- Submerged litter



DryMax are automatic priming, diaphragm pumps with Yanmar L48E electric start engines. They are fitted with nitrile rubber diaphragms and check valves, so priming is unnecessary and indefinite dry running is permissible. Designed for site pumping, they are suitable for fluids containing sand, mud, sludge, sewage and suspended spherical solids up to 40mm. Heavy duty, yet lightweight, the pump ends are in aluminium, they use needle bearings and have oil filled gear units. For ease of access and storage, the design features a pivoting pump chamber for use sideways or frontwards. Enhanced site-use features include a long run, 5.4litre (6 hour) fuel tank, BSP male connections, 2 wheel site trolley, mud plate, rubber engine mounts and stand by engine recoil. Both models are supplied with a suction strainer and a battery, but hose couplings, washers, clips and hoses are extra. A quick release cam coupling kit, with heavy duty hose clamps, is an optional extra for operator convenience. Maximum suction lift is 8 metres, however, 6 metres, or less, is recommended.



DryMax 2



Quick release coupling kit



DryMax 3

item code	model	inlet (mBSP)	outlets (mBSP)	engine	fuel	HP	flow (l/min)	head (mtrs)	w x l x h (mm)	solids (mm)	dry weight (kgs)	Price	Code
14-20-1001	DryMax 2	2"	2"	L48E	diesel	4.7	190	17	660x1210x720	40	90	3,508.00	3
14-20-1000	DryMax 3	3"	3"	L48E	diesel	4.7	330	17	775x1210x720	40	94	3,778.00	3
130050	optional extra: 50mm quick release coupling kit (2 x Part C, 2 x Part A, 3 x hose clamps)										1.40	30.00	3
130080	optional extra: 80mm quick release coupling kit (2 x Part C, 2 x Part A, 3 x hose clamps)										2.40	45.00	3



TEF • TEW

CENTRIFUGAL - HIGH PRESSURE

The TEF and TEW2 are self-priming centrifugal, high head pumps powered by OHV Honda petrol engines. They have carbon ceramic mechanical seals, aluminium pump housings, and cast iron volutes and impellers. To achieve the high pressures, these impellers have a larger diameter than conventional engine pumps and operate most effectively when pumping clear water. The TEF3-50HA and TEW2-50HA models feature three BSP male outlets (1 x 1½" and 2 x 1") to enable two people to use the pump at the same time and still with high pressure e.g. for firefighting, dust suppression, cleaning etc. Each outlet has a blanking cap to maximise pressure and conserve water when it is not needed. The TEW2 is fitted with an electric start (with battery holder, but not battery) to ensure quick and effortless starting. All models (except TEF-25HA) are housed within protective tubular steel, easy carry frames, and have oil alerts and anti-vibration rubber feet. Maximum suction lift is 8 metres, however, 6 metres, or less, is recommended. To assist manual handling of models TEF3-50HA and TEW2-50HA, a two wheeled trolley is available as an optional extra. Hose couplings, washers, clips and strainers are supplied, but hoses are extra.

A dual fuel LPG conversion kit will enable a Honda engine driven pump (fitted with GX120, GX160, GX240 or GX340) to run on a propane cylinder bottle, but with the option to switch back to petrol if required. Using gas reduces running costs and lowers emissions without any loss of performance. Gas also avoids the problems caused by stale fuel in an engine left unused for long periods and the hazards of petrol storage and refuelling. Supplied in kit form, with step-by-step instructions, they are easy to fit without any special tools.

- Agriculture
- Fire fighting
- Utilities
- Dust suppression
- Irrigation
- High head pumping



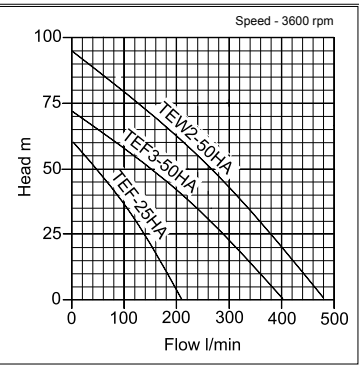
TEF-25HA



TEF3-50HA



TEW2-50HA



LPG conversion kit

item code	model	inlet (mm)	outlets (mm/BSPM)	engine	fuel	HP	oil alert	flow (l/min)	head (mtrs)	solids (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
18-20-1020	TEF-25HA	25	25	GXH50	petrol	2.1	yes	210	60	2	280x410x385	9.6	467.00	3
18-20-1001	TEF3-50HA	50	1" & 1½"	GX160	petrol	5.5	yes	400	72	1	380x520x460	27.1	724.00	3
18-20-1004	TEW2-50HA	50	1" & 1½"	GX270	petrol	9	yes	480	95	1	490x680x580	49.9	2,027.00	3
N/A	optional extra: site trolley (TEF3-50HA and TEW2-50HA)											12.4	199.00	3
N/A	LPG gas conversion kit (GX160 & GX270)											2.0	175.00	3

TDS • TED



CENTRIFUGAL - TRASH & SEMI TRASH

- Hire fleets
- Construction
- Utilities
- Drainage
- Waste removal
- Submerged litter



For applications where water contains solids, centrifugal trash pumps are recommended. The **TDS-HA** and **TED-HA** models are self-priming pumps powered by OHV Honda petrol engines with oil alerts. The **TED-RD** models are also self-priming pumps but are powered by Subaru-Robin diesel engines. They are all housed within protective tubular steel, easy carry frames and anti-vibration rubbers. All models are fitted with silicon carbide and ceramic mechanical seals and are supplied with hose couplings, washers, clips and strainers, but hoses are extra. Maximum suction lift is 8 metres, however, 6 metres, or less, is recommended. They are available in the following designs, with differing inspection and impeller access designs to match most budgets and duties:

TDS-50HA and **TDS-80HA** are semi-trash pumps. The pump housing features elongated bolts for easy removal using the special tool supplied. These models are able to handle 20mm solids which is 12mm more than the Koshin alternative (SEH50T and 80T).

The **TED** series are heavy-duty trash pumps of traditional design. The pump housings incorporate inspection covers, which can be quickly released by undoing two hand nuts, thus allowing ready access to the impeller.

To assist manual handling of **TED** models, a two wheeled trolley is available as an optional extra.

A dual fuel **LPG conversion kit** will enable a Honda engine driven pump (fitted with GX120, GX160, GX240 or GX340) to run on a propane cylinder bottle, but with the option to switch back to petrol if required. Using gas reduces running costs and lowers emissions without any loss of performance. Gas also avoids the problems caused by stale fuel in an engine left unused for long periods and the hazards of petrol storage and refuelling. Supplied in kit form, with step-by-step instructions, they are easy to fit without any special tools.



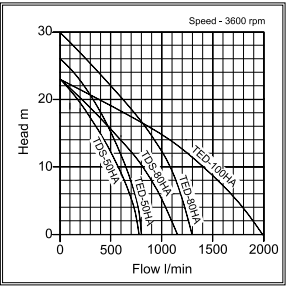
TED-80HA with trolley



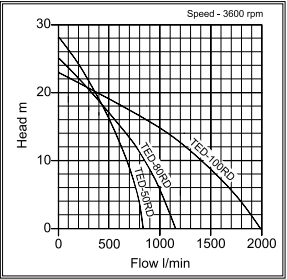
LPG conversion kit



TDS-50HA



TED-80RD



item code	model	inlet (mm)	outlet (mm)	engine	fuel	HP	oil alert	flow (l/min)	head (mtrs)	solids (mm)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
18-20-1019	TDS-50HA	50	50	GX120	petrol	4.0	yes	780	23	20	345x470x420	24	513.00	3
18-20-1005	TDS-80HA	75	75	GX160	petrol	5.5	yes	1150	23	20	370x525x420	27	595.00	3
18-20-1009	TED2-50HA	50	50	GX160	petrol	5.5	yes	800	26	25	430x570x400	33	899.00	3
18-20-1003	TED2-80HA	75	75	GX240	petrol	8	yes	1300	30	35	485x670x610	59	1,331.00	3
18-20-1014	TED2-100HA	100	100	GX340	petrol	10	yes	2000	23	35	480x725x610	69	1,882.00	3
18-20-1016	TED-50RD	50	50	DY23D-2D	diesel	4.8	n/a	830	28	25	410x610x510	50	1,943.00	3
18-20-1002	TED-80RD	75	75	DY27D-2D	diesel	5.5	n/a	1150	25	35	410x680x590	59	2,377.00	3
18-20-1010	TED-100RD	100	100	DY41D-2D	diesel	7.5	n/a	2000	23	35	480x780x610	91	3,082.00	3
N/A	optional extra: site trolley (TED models)											12.4	199.00	3
N/A	LPG gas conversion kit (GX120, GX160, GX240 & GX340)											2.0	175.00	3



POLY

CENTRIFUGAL - SEAWATER & CHEMICAL

The **Poly** series are self-priming centrifugal pumps for the transfer of non-abrasive, but aggressive, liquids that would normally cause corrosion of the rubber, aluminium and cast iron components found in conventional engine driven pumps. They are constructed from glass reinforced polyester, with stainless steel fasteners and EPDM rubber components. This standard construction will handle most detergents, many agricultural chemicals* and salt/sea water. Optional Buna or Viton® fitted seal sets are available at extra cost for pumping diesel or acids*. These pumps have carbon ceramic mechanical seals, powder coated easy carry frames, quick release couplings and suction strainer, but hoses are extra. They are powered by either OHV Honda petrol (with oil alert), or Yanmar diesel engines. Maximum suction lift is 8 metres, however, 6 metres, or less, is recommended. They are widely used in agricultural applications, but, with their material options, they also have many industrial uses.

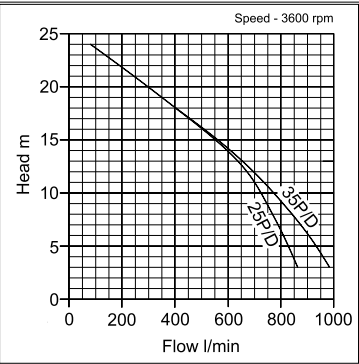
**We strongly recommend that you provide our sales department with written details of your application so that the correct selection can be made.*

A dual fuel **LPG conversion kit** will enable a Honda engine driven pump (fitted with GX120, GX160, GX240 or GX340) to run on a propane cylinder bottle, but with the option to switch back to petrol if required. Using gas reduces running costs and lowers emissions without any loss of performance. Gas also avoids the problems caused by stale fuel in an engine left unused for long periods and the hazards of petrol storage and refuelling. Supplied in kit form, with step-by-step instructions, they are easy to fit without any special tools.

- Agriculture
- Industry
- Marine
- Chemicals
- Sea water
- Diesel transfer



25 P



LPG conversion kit

item code	model	inlet (mm)	outlet (mm)	engine	fuel	HP	oil alert	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
12-20-1002	25 P	50	50	GX160	petrol	5.5	yes	870	25	400x600x560	33.8	827.00	3
12-20-1005	35 P	75	75	GX160	petrol	5.5	yes	984	25	400x600x560	35	1,200.00	3
12-20-1006	25 D	50	50	L48	diesel	4.8	n/a	870	25	400x600x560	50	1,809.00	3
12-20-1000	35 D	75	75	L48	diesel	4.8	n/a	984	25	400x600x560	52	1,994.00	3
12-85-1003	Buna seal (fitted) option											163.00	3
12-85-1023	Viton seal (fitted) option											397.00	3
N/A	optional extra: site trolley										12.4	199.00	3
N/A	LPG gas conversion kit (GX160)										2.0	175.00	3

PW

90 to 200 BAR

- Hire fleets
- Construction
- Industry
- Utilities
- Domestic

The **PW** series are heavy duty pressure washers powered by Honda petrol engines, or Yanmar diesel engines. They feature Interpump plunger pumps fitted with brass manifolds, for ultimate reliability, and a low pressure chemical injection facility for operator convenience. For the more industrial applications there are models fitted with gearboxes, while for the lighter duty, direct drive is selected. A broad range of manual handling specifications include simple open frames, easy carry full frames, heavy duty site frames, solid rubber wheels and pneumatic tyres. All models are supplied with high pressure hose, lance and suction pipes. They are suitable for all cleaning applications, where a powerful, and portable, cleaning source is required.



PW100 PH11



PW140 PH12



PW200 PH13



PW150 PH14



PW200 PH15U



PW140 PH12T



PW200 PH15

item code	model	pressure PSI/BAR	engine	fuel	flow (ltr/min)	electric start	oil alert	gear box	wxlxh (mm)	dry weight (kgs)	price (£)	code
12-50-1007	PW100 PH11	1500/100	GX120	petrol	11	no	yes	no	410x540x470	27	859.00	3
12-50-1006	PW140 PH12	2000/140	GX160	petrol	12	no	yes	yes	450x600x510	37	1062.00	3
12-50-1003	PW140 PH12T	2000/140	GX160	petrol	12	no	yes	yes	600x1000x640	43	1106.00	3
12-50-1005	PW150 PH14	2250/150	GX200	petrol	14	no	yes	yes	600x1000x640	31	1098.00	3
12-50-1001	PW200 PH13	3000/200	GX270	petrol	13	no	yes	no	550x660x800	52	1278.00	3
12-50-1000	PW200 PH15	3000/200	GX340	petrol	15	no	yes	yes	600x990x720	79	1713.00	3
12-50-1008	PW200 PH15U	3000/200	GX340	petrol	15	no	yes	yes	600x720x990	79	1713.00	3



PW • MINI BOWSER

150 to 200 BAR

- Hire fleets
- Construction
- Industry
- Utilities
- Authorities

The **Mini Bowser** is the ultimate mobile cleaning machine designed to enable effective, high pressure cleaning, for long periods, in locations where there is not a mains water supply. The **PH150 PH14** pressure washer is coupled to a 125 litre GRP water tank and is simple to manoeuvre on the ergonomically designed, yet strong, site trolley.



PW200 DY15E



PW200 DY15ES



Mini Bowser

item code	model	pressure PSI/BAR	engine	fuel	flow (ltr/min)	electric start	oil alert	gear box	wxlxh (mm)	dry weight (kgs)	price (£)	code
12-50-1002	PW200 DY15E	3000/200	L100	diesel	15	yes	-	yes	660x1015x780	122	2945.00	3
12-50-1004	PW200 DY15ES	3000/200	L100	diesel	15	yes	-	yes	600x1000x850	142	3591.00	3
12-50-1009	Mini Bowser with 120ltr tank	2250/150	GX160	petrol	8	no	yes	no	740x680x1520	57	1647.00	3

ADBLUE

32 LITRES PER MINUTE

- Adblue & Urea
- Plant & transport
- Agriculture
- Vehicle fleets
- Decanting



Nozzle (type 2)



Nozzle (type 3)



Nozzle (type 1)



Adblue pump



Adblue pump complete with kit



Suction kit



Discharge hose

**Flow meter**[illegible]

FL-5

30 to 50 LITRES PER MINUTE

- **Adblue & Urea**
- **Plant & transport**
- **Agriculture**
- **Vehicle fleets**
- **Decanting**



Adblue pump



Suction kit



Discharge hose



Flow meter



Manual nozzle (aluminium)



Manual nozzle (plastic)

[illegible]

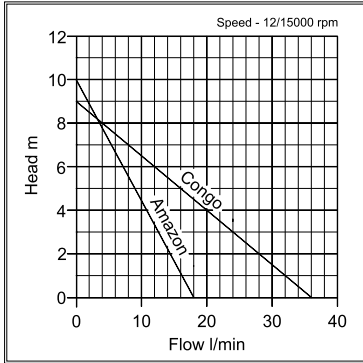
AMAZON • CONGO



ADR

DIESEL & WATER

- Industry
- Construction
- Leisure
- Transfer
- Filling



The **Amazon** and **Congo** are low voltage, D.C., plastic inline/submersible pumps for battery operation only. They are available in two formats: standard pump only, with a 4 metre PVC cable and crocodile clips, or as a kit which also has 4 metres of PVC/nitrile layflat hose and an adjustable on/off spray nozzle. Both are designed for transfer and drainage of fresh water, seawater and diesel fuel. Higher heads can be achieved by operating pumps in series (inline). This is possible by detaching the removable strainer and exposing the inlet which has a hose connection. The hose from another pump, of the same hose size, can be connected to this. Motors are continuously rated, so they do not have a duty cycle, but brush life is finite and therefore determined by usage.

They must NOT pump, petrol, high viscosity liquids, chemicals, solvents or products with a low flash point.



item code	model	outlet (mm)	volt (DC)	amp	flow (l/min)	head (mtrs)	free passage (mm)	dia x h (mm)	dry weight (kgs)	Price (£)	code
12-10-1004	Amazon	13	12	4.5	18	10	1	Ø40x162	0.22	51.00	1
12-10-1016	Amazon	13	24	2.3	18	10	1	Ø40x162	0.22	56.00	1
12-10-1011	Congo	20	12	6.0	36	9	1	Ø40x162	0.25	64.00	1
12-10-1005	Congo	20	24	3.0	36	9	1	Ø40x162	0.25	71.00	1
12-10-1010	Amazon Kit	13	12	4.5	18	10	1	Ø40x162	0.22	69.00	1
12-10-1014	Amazon Kit	13	24	2.3	18	10	1	Ø40x162	0.22	82.00	1
12-10-1001	Congo Kit	20	12	6.0	36	9	1	Ø40x162	0.25	91.00	1
12-10-1007	Congo Kit	20	24	3.0	36	9	1	Ø40x162	0.25	105.00	1

The **ADR** portable refuelling kit is the convenient way of transporting and delivering diesel. It is designed to fit into any light vehicle and has forklift slots, for moving when full, and 6 handles, to carry by hand, when empty. Pump, hose and nozzle all fit neatly within the bevelled storage dock for a tidy appearance and ease of use.

The 200 litre tank is in constructed in LLDPE which is shockproof, diesel and UV resistant, and is easily washable. It has a high quality filler plug, shut off valve and overflow vent. The pump can pump up 34 litres per minute, has a fully sealed connection with the tank for reliable fuel suction. It is supplied with 4 metres of crimped discharge hose, 6 metre power lead, battery connectors and an automatic nozzle, with a swivel connection.



- Red & white diesel
- Biodiesel
- Hire fleets
- Plant & transport
- Agriculture



item code	model	amps	volt	flow (l/min)	w x l x h (mm)	nominal capacity (litres)	usable capacity (litres)	dry weight (kgs)	Price (£)	code
12-25-1018	ADR refuelling kit	30	12	34	600x1000x510	200	208	22.00	634.00	2
12-25-1015	ADR refuelling kit	15	24	34	600x1000x510	200	208	22.00	634.00	2

DCC



COUGAR

30 LITRES PER MINUTE

- Red & white diesel
- Biodiesel
- Hire fleets
- Plant & transport
- Agriculture



The **DCC** is a low voltage (D.C.) self-priming pump with a bypass valve and cast iron pump body. It is designed for diesel and biodiesel use only. The motor has a duty cycle of 30 minutes. It has a carry handle and is supplied with a 2 metre battery cable, crocodile clips, integral fuse and a switch. Included is a pumping kit that comprises a 4 metre long discharge hose, a 2 metre long inlet hose, battery connectors, delivery nozzle* and foot-valve and strainer. It **MUST NOT** pump water, petrol, high viscosity liquids, chemicals, solvents or products with a low flash point.

** Some cars will not accept this size of nozzle (please check with our sales department for guidance)*



DCC12 c/w kit

item code	model	inlet (mm)	outlet (mm)	amps	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price	code
19-25-1000	DCC12 c/w kit	20	20	22	12	30	10	112x200x145	4.00	203.00	2
19-25-1001	DCC24 c/w kit	20	20	12	24	30	10	112x200x145	4.00	203.00	2

COUGARS are self-priming pumps with cast iron pump bodies for diesel and biodiesel transfer only. They have IP55 motors fitted with rocker switches. They are fitted with internal filters, for trapping debris, which is easily accessible for cleaning. In addition, they have internal by-pass valves, which protect the pump (for up to 2 minutes) from pressure caused by a closed nozzle. Recommended suction lift is 3 metres, however, with a foot valve, 5 metres is possible. They **MUST NOT** pump water, petrol, high viscosity liquids, chemicals, solvents or products with a low flash point.

Pumping kits are available as an optional extra:

COUGAR 50 kit: this comprises a manual nozzle*, hose fittings, strainer and 5 metres of 25mm rubber/PVC hose that can be cut to the required suction and discharge length.

COUGAR 80 kit: this comprises a manual nozzle*, hose fittings, strainer and 2 metres of 32mm rubber/PVC hose for the suction side and 3 metres of 25mm rubber/PVC hose for the delivery side. Alternative combinations up to 5 metres, in total, is available, on request.

For ease of handling and added protection, a full frame is a worthy investment as an optional extra.

** Some cars will not accept this size of nozzle (please check with our sales department for guidance)*

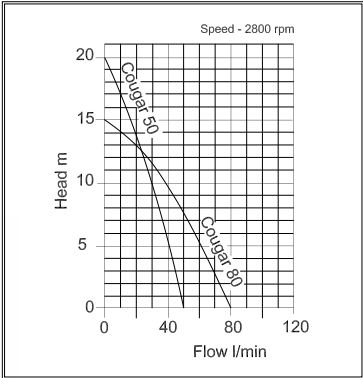


Cougar 50 c/w kit
(in frame)



Cougar 80

- Red & white diesel
- Biodiesel
- Hire fleets
- Plant & transport
- Agriculture



item code	model	inlet BSPF/(mm)	outlet BSPF/(mm)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
12-25-1011	Cougar 50 pump	1"	1"	0.37	110	50	20	120x220x190	5.30	141.00	2
12-25-1013	Cougar 50 pump	1"	1"	0.37	230	50	20	120x220x190	5.30	141.00	2
12-25-1016	Cougar 50 pump c/w kit	25	25	0.37	110	50	20	120x220x190	5.30	226.00	2
12-25-1012	Cougar 50 pump c/w kit	25	25	0.37	230	50	20	120x220x190	5.30	226.00	2
12-25-1004	Cougar 80 pump	1½"	1"	0.55	110	80	15	130x220x190	7.30	213.00	2
12-25-1008	Cougar 80 pump	1½"	1"	0.55	230	80	15	130x220x190	7.30	213.00	2
12-25-1007	Cougar 80 pump c/w kit	32	25	0.55	110	80	15	130x220x190	7.30	260.00	2
12-25-1009	Cougar 80 pump c/w kit	32	25	0.55	230	80	15	130x220x190	7.30	260.00	2
12-85-1067	Optional extra: full protection frame (type: FR001)							250x310x270	3.20	53.00	2

METERS

ACCESSORIES

- Red & white diesel
- Biodiesel
- Hire fleets
- Plant & transport
- Agriculture



The **UR** series diesel flow-meters are for use with pumps that have a flow range of 20 to 120 litres per minute or gravity fed systems that push down a minimum 20 litre per minute flow. These meters are equipped with either a 3-digit or 4-digit resettable batch register (with marked tenths), and a non-resettable totaliser.



UR3



UR4

item code	model	inlet BSPF	outlet BSPF	w x l x h (mm)	dry weight (kgs)	Price	code
12-85-1010	UR3	1"	1"	180x130x150	1.80	93.00	1
12-85-1033	UR4	1"	1"	180x165x150	2.50	111.00	1



HOSES • KITS • NOZZLES

ACCESSORIES

- Red & white diesel
- Biodiesel
- Hire fleets
- Plant & transport
- Agriculture

Gravity nozzles are for use with pumped and gravity systems. They are for manual operation i.e. they will not shut off automatically when rising fuel level covers the end of the spout. They have an alloy construction with FBSP brass rotating hose connectors.

Automatic nozzles are for use with pumped systems only. They are for automatic operation i.e. they will shut off when the rising fuel level covers the end of the spout. Alloy construction, with FBSP brass rotating hose connector, partly encased in rubber to protect them from shocks and to improve grip and comfort.

N.B. Some cars will not accept these nozzles (please check with our sales department for guidance).

Rubber hose: high quality rubber “drop hose” which has excellent flexibility and kink resistance. Suitable for suction and delivery of diesel fuels and oils: available by the metre.

PVC hose: high quality PVC and nitrile hose reinforced with an embedded PVC spiral-helix. Good flexibility and kink resistance. Suitable for suction and delivery of diesel fuels and oils: available by the metre.

Hose kits comprise a manual nozzle, hose fittings, strainer and 5 metres of rubber “drop hose” that can be cut to the required suction and discharge length. Diesel hose kits in PVC are available on request.



Manual nozzle



Automatic nozzle



PVC hose



Rubber hose



Hose kit

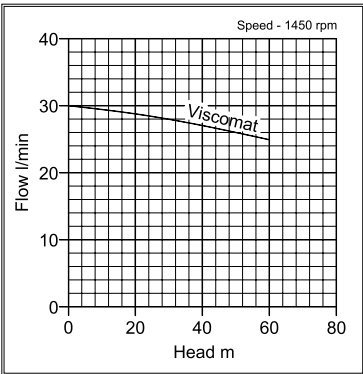
item code	type	inlet BSPF	nozzle diameter (mm)	maximum flow (litres per min)	dry weight (kgs)	Price	code
12-85-1051	Gravity "A"	1"	25	80	0.80	20.00	1
12-85-1056	Auto 60	1"	25	60	1.00	67.00	1
12-85-1001	Auto 80	1"	25	80	1.20	84.00	1
12-85-1008	Auto 140	1"	32	140	1.40	112.00	1

item code	type	bore (mm)	unit	dry weight (kgs)	Price	code
12-85-1018	hose, rubber	20	per metre	0.43	4.75	1
12-85-1016	hose, rubber	25	per metre	0.58	5.25	1
12-85-1041	hose, PVC	25	per metre	0.58	3.70	1
12-85-1032	hose, PVC	32	per metre	0.58	5.30	1
12-85-1009	hose, PVC	38	per metre	0.67	6.10	1
12-85-1055	hose kit, rubber	20	each	4.00	70.00	1
12-85-1028	hose kit, rubber	25	each	4.30	86.00	1

VISCOMAT

SAE10W to SAEW140

- Industry
- Utilities
- Transfer
- Oils
- Lubricants



The **Viscomat** is a self-priming rotary vane pump for the transfer of oils and lubricants. It has an adjustable bypass valve (which protects the pump for up to 2 minutes during closed valve conditions), cast iron pump body, a steel shaft, which is fitted with a single mechanical seal, and has an IP55 motor. Oils up to 500 centistokes, or ranging from SAE 10W up to SAEW/140 (gear oil), can be pumped, but flow rate will alter depending on viscosity and temperature of the oil in question (NB published performance based on 80 W oil at 20°C, no foot valve and 2 metre x 25mm/1" suction hose). Maximum suction lift is 2.5 metres. Maximum liquid temperature is 40°C. It is supplied free-standing, so for ease of handling and added protection, a full frame is a worthy investment as an optional extra.

It MUST NOT pump diesel, water, petrol, chemicals, solvents or products with a low flash point.



Viscomat



Viscomat in frame

item code	model	inlet (BSPF)	outlet (BSPF)	kW	volt	flow (l/min)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
12-25-1003	Viscomat	1"	1"	1.20	110	30	60	145x330x230	13.20	428.00	1
12-25-1014	Viscomat	1"	1"	0.75	230	30	60	145x330x230	13.20	428.00	1
12-25-1006	Viscomat	1"	1"	0.75	400	30	60	145x330x195	13.20	433.00	1
12-85-1060	Optional extra: full protection frame (type: FR002)							295x375x300	3.90	58.00	2



DINGHY BAILER

WATER & DIESEL

The Dinghy Bailer is a lift and force hand pump for drainage and transfer of water or diesel. This pump is tough, yet lightweight, and is constructed in uPVC with a nitrile seal. It is supplied with a 1 metre length of 32mm discharge hose, which can also be used on the inlet, for threading into flooded, inaccessible areas.

- Marine
- Utilities
- Leisure
- Transfer
- Bilge pumping



Dinghy Bailer

item code	model	inlet (mm)	outlet (mm)	flow (l/min)	suction lift (mtrs)	head (mtrs)	dia x l (mm)	dry weight (kgs)	Price (£)	code
12-30-1004	Dinghy Bailer	32	32	45	2	2	Ø60x580	0.40	29.00	3

EZI-ACTION



BARREL PUMPS

MULTIPLE LIQUIDS

- Industry
- Agriculture
- Decanting
- Chemicals
- Adblue
- Thick liquids

Ezi-action pumps are chemical resistant, robust hand pumps for the transfer of fluids from drums and containers. The revolutionary double action design provides effortless pumping with no critical parts to wear or jam. Liquid is efficiently dispensed in volume on the up and the down stroke, at a safe low pressure. They can handle some acids, strong alkalis, cleaning chemicals, lubricants, diesel(including AdBlue/DEF), liquid food products and viscous liquids up to 8,800 centipoise. They are constructed from high quality FDA compliant polypropylene with seals and flap valves of high quality LDPE. None of these components need to be changed when pumping different liquids. Ezi-action drum pumps are designed to sit on the base of the container and empty all contents. A variety of adaptor fittings are available to enable correct connection to the container. Indeed, connection to any container is possible when the internal diameter of the

spout is 45mm or greater. An anti-pumping safety strap is fitted to secure the contents of the vessel when the pump is not in use. The safety enhanced Ezi-action safety measure kit is a useful accessory and provides totally enclosed calibrated dispensing and decanting of liquids. To prevent accidental siphoning e.g. when a long discharge pipe is attached or filling a fuel tank, a non-siphon check valve is available.

When considering an Ezi-action pump, we strongly recommend that you provide our sales department with written details of your application in order that suitability can be confirmed.



25/5 (with safety measure kit) 200/55 (with safety measure kit) 1000/220

item code	pump model	output per stroke (ml)	suitable container size	suitable adaptor type (specify one of these at the time of order)	dry weight (kgs)	Price (£)	code
12-30-1022	25/5	160	20, 25 & 30 litre (male)	C55, C57, C63	0.40	32.00	3
12-30-1002	200/55	400	200 litre (45 gallon) drums	MBSP, M69, M55	0.70	48.00	3
12-30-1021	1000/220	400	1000 litre IBCs.	MBSP, M55	0.90	65.00	3

With each pump one adaptor of your choice is supplied. Selecting the correct adaptor: 3 male thread options and 3 female options are available to fit the most popular thread styles in use in the UK. To determine the correct adaptor measure either the internal diameter of the container cap thread or the outside diameter of the bung, then describe the thread. Select from:

item code	adaptor	outlet dimension of container and thread description	Price (£)	code
12-30-1015	C55	55mm internal diameter with a medium thread	3.00	3
12-30-1023	C57	57mm internal diameter with a coarse thread	3.00	3
12-30-1019	C63	63mm internal diameter with a medium thread and flat edge	3.00	3
12-30-1001	MBSP	58mm outside diameter with a fine thread (usual fitting on metal drums)	3.00	3
12-30-1025	M55	55mm outside diameter with a medium thread (also known as Trisure, BCS, Mauser)	3.00	3
12-30-1007	M69	69mm outside diameter with a coarse thread	3.00	3



item code	accessory	dry weight (kgs)	Price (£)	code
12-30-1006	safety measure kit	0.20	13.00	3
12-30-1031	non-siphon check valve	0.10	2.00	3

Model MS is a basic, fully rotary, cast iron and brass hand pump for diesel, paraffin and oil transfer. Supplied with 25mm outlet spout, 1000mm (3 part) rigid riser tube, barrel adaptor, strainer stand and operating handle. It should not pump water, petrol, chemicals, solvents or products with a low flash point.

Model HP1000 is a high output, fully rotary, alloy and aluminium hand pump for unleaded petrol, diesel, paraffin and low viscosity oil transfer. Supplied with an outlet spout, 1000mm riser tube, barrel adaptor, strainer, operating handle and 1 metre of discharge pipe. It should not pump water, chemicals or solvents.

Poly, Ryton® and Teflon® are lightweight, fully rotary pumps for a variety of liquids*. They are supplied with 19mm spouts, 3 part (390mm) intake tubes (assembles to 1200mm), barrel adaptors and operating handles. Alternative adaptors are available, as an optional extra, to enable their use on barrels and containers without a 2" BSP connection.

Poly: polypropylene construction, phenolic vanes, Viton® seals, polyethylene flange gaskets. Suitable for water based solutions of acids, alkalis and salts, some organic solvents, water, diesel, biodiesel and oils up to SAE 90.

Ryton®: Ryton® construction, Ryton® vanes, Viton® seals, Teflon® flange gaskets. Suitable for aggressive chemicals such as chlorinated solvents, aromatic and aliphatic hydrocarbons. Not suitable for ketones or esters or very strong oxidising agents in a concentrated form (i.e. not suitable for nitric acid over 50%).

Teflon®: constructed exclusively from Teflon® and 304 stainless steel. Suitable for extremely aggressive chemicals and solvents, highly concentrated acids and alkalis up to 100%

* With the exception of use in water, we strongly recommend that you provide our sales department with written details of your application so that the correct selection can be made.

WARNING: Static electricity may be generated by the operation of rotary pumps. In order to prevent sparking caused by static build-up, when pumping flammable liquids an insulated bonding wire must be used i.e. the container must be grounded to earth by means of a conductive earthing lead, fastened between the container and a suitable grounded earth point.

MS

Ryton®

Poly

HP1000

Teflon®

item code	model	outlet (mm)	flow (l/min)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
12-30-1026	MS	25	25	130x220x1265	4.50	21.00	3
15-30-1000	HP1000	25	100	160x200x1180	5.10	120.00	3
12-30-1030	Poly	25	35	130x220x1265	2.90	31.00	3
12-30-1024	Ryton®	25	35	130x220x1265	2.90	167.00	3
12-30-1020	Teflon®	25	35	130x220x1265	1.60	342.00	3
Optional extra: adaptor to enable use of pump on barrel/container without 2" BSP						9.50	3

- Industry
- Utilities
- Plant
- Diesel
- Chemicals

DIESEL • CHEMICALS

SR

WATER • DIESEL • OIL

- Industry
- Utilities
- Plant
- Multi user transfer



The **SR series** are traditional cast iron, semi-rotary, hand-pumps. Supplied with operating handle and screwed mating flanges, they are versatile pumps suitable for water, petrol, diesel, light oils, lubricants, alcohols, and non-corrosive solvents. Maximum suction lift, with a foot valve is 4 metres. Can be wall mounted or permanently piped-in.

WARNING: Static electricity may be generated by the operation of semi-rotary pumps. In order to prevent sparking caused by static build-up, when pumping flammable liquids an insulated bonding wire must be used i.e. the container must be grounded to earth by means of a conductive earthing lead, fastened between the container and a suitable grounded earth point.



SR2

item code	model	inlet (BSPF)	outlet (BSPF)	flow (l/min)	suction lift (mtrs)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
12-30-1017	Size 0	½"	½"	11.5	4	25	160x165x175	6.50	43.00	3
12-30-1028	Size 1	¾"	¾"	17.3	4	25	180x195x205	7.50	46.00	3
12-30-1029	Size 2	1"	1"	22.5	4	25	200x205x230	10.40	66.00	3
12-30-1013	Size 3	1¼"	1¼"	25.0	4	22	240x232x275	12.80	86.00	3
12-30-1010	Size 4	1½"	1½"	43.3	4	22	255x264x295	16.90	90.00	3
12-30-1018	Size 5	1½"	1½"	53.5	4	20	275x276x320	20.90	186.00	3
12-30-1009	Size 7	2"	2"	58.0	4	15	360x345x360	36.50	250.00	3



SD

WATER • DIESEL^[1] • CHEMICAL^[1]

- Industry
- Domestic
- Utilities
- Multi user transfer



SD series are push-pull, lever operated, single diaphragm, hand-pumps for drainage and transfer of water containing non-abrasive solids, oils etc. The **SD45C** features a cast aluminium construction and steel operating lever and is designed for mounting directly on a vertical surface (base mounting brackets are an optional extra), The **SD60FM** is in polypropylene, with a cast aluminium lever and can be mounted vertically or horizontally. Both have a nitrile diaphragm. At an extra cost^[1], for the pumping of red or white diesel and bio-diesel, higher acetonitrile diaphragms can be fitted. Viton®, Butyl or Neoprene diaphragms can be fitted for compatibility with chemicals*, also at an extra cost^[1].

**We strongly recommend that you provide our sales department with written details of your application so that the correct selection can be made.*



SD60FM



SD45C

item code	model	inlet (mm)	outlet (mm)	flow (l/min)	suction lift (mtrs)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
12-30-1003	SD45C	25	25	45	4.5	4.5	113x197x226	2.00	106.00	3
12-30-1016	SD60FM	25 & 38	25 & 38	66	6.0	4.5	160x175x335	0.80	52.00	3

DD

WATER • DIESEL^[1] • CHEMICAL^[1]

- Industry
- Construction
- Utilities
- Multi user transfer



The DD series are push-pull, lever operated, double diaphragm, hand-pumps for drainage and transfer of dirty water containing solids, oils etc. They have a cast aluminium construction, nitrile diaphragms and are available as fixed or portable units. The fixed versions have mounting flanges, stainless steel fastenings and 380mm long levers. The portable versions have cast aluminium base-plates, stainless steel fastenings with hand-wheels (for ease of access to the pump chamber), strainers, hose clips and 600mm long levers. At an extra cost^[1], for the pumping of red or white diesel and bio-diesel, a higher acetonitrile diaphragm can be fitted. Viton®, Butyl or Neoprene diaphragm can be fitted for compatibility with chemicals*, also at an extra cost^[1].

**We strongly recommend that you provide our sales department with written details of your application so that the correct selection can be made.*



DD100C



DD120C c/w base

item code	model	inlet (mm)	outlet (mm)	flow (l/min)	suction lift (mtrs)	head (mtrs)	w x l x h (mm)	dry weight (kgs)	Price (£)	code
12-30-1027	DD100C	32	32	80	6	6	156x200x244	3.10	189.00	3
12-30-1005	DD120C	38	38	136	6	6	183x356x265	4.50	232.00	3
12-30-1000	DD100C c/w base	32	32	80	6	6	215x560x275	4.90	268.00	3
12-30-1008	DD120C c/w base	38	38	136	6	6	215x560x296	6.00	311.00	3

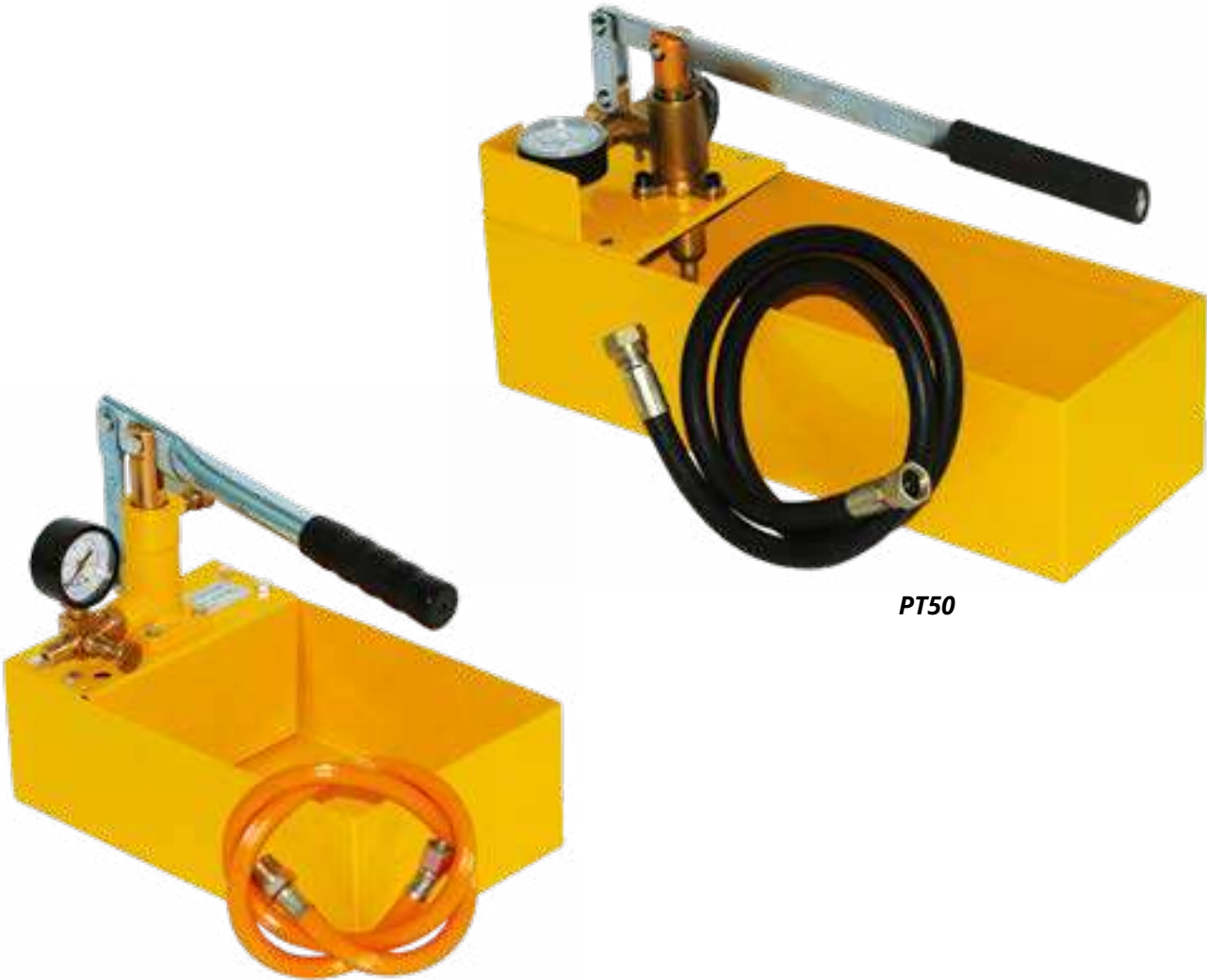


PT

25 to 80 BAR

- Trade
- Industry
- Utilities
- Hire fleets
- Plumbing
- Heating

The PT series of pressure test pumps are tough and reliable tools for leak testing in water pipe systems. They are suitable for all pressurised plastic pipe plumbing and central heating systems. They have robust powder coated pressed steel reservoirs, ½" male BSP connectors, heavy duty handle and pistons. Each model is supplied complete with a connector hose. Not suitable for gas pipe testing.



PT25

PT50

item code	model	working pressure (bar/psi)	stroke (mm)	water suction per stroke (cc)	reservoir capacity (litres)	dimensions (mm)	dry weight (kgs)	price	code
12-30-1011	PT25	25/362	35	13	5	300x310x185	4.60	101.00	3
12-30-1012	PT50	50/725	35	26	10	500x300x185	10.00	151.00	3
12-30-1014	PT80	80/1160	35	10	10	500x300x185	10.00	439.00	3

SUCTION AND DELIVERY

MEDIUM DUTY



(pn) = Part Number

SUCTION & DELIVERY HOSE PVC (rigid but flexible, shock resistant, embedded nylon spiral-helix reinforced construction)								code 5
size inches (ID mm)	colour (duty)	working pressure (bar)	packing weight, per metre (kgs)	6 metre coil (£)	10 metre coil (£)	15 metre coil (£)	20 metre coil (£)	30 metre coil (£)
¾" (19mm)	green tint (light)	8	0.19	10.81	18.05	27.13	36.21	54.26
				(pn) 11-55-1024	(pn) 11-55-1039	(pn) 11-55-1042	(pn) 11-55-1061	(pn) 11-55-1005
1" (25mm)	green opaque (medium)	6	0.31	12.75	21.22	31.82	42.43	63.55
				(pn) 11-55-1098	(pn) 11-55-1053	(pn) 11-55-1057	(pn) 11-55-1018	(pn) 11-55-1031
1¼" (32mm)	green opaque (medium)	6	0.42	16.93	28.25	42.43	56.51	84.76
				(pn) 11-55-1069	(pn) 11-55-1085	(pn) 11-55-1064	(pn) 11-55-1060	(pn) 11-55-1043
1½" (38mm)	green opaque (medium)	5	0.52	23.36	38.96	58.45	78.03	116.99
				(pn) 11-55-1050	(pn) 11-55-1019	(pn) 11-55-1033	(pn) 11-55-1047	(pn) 11-55-1080
1½" (40mm)	black opaque (light)	2	0.46	25.81	42.94	64.46	85.88	128.83
				(pn) 11-55-1030	(pn) 11-55-1029	(pn) 11-55-1077	(pn) 11-55-1046	(pn) 11-55-1058
2" (51mm)	green opaque (medium)	5	0.80	31.01	51.71	77.52	103.43	155.14
				(pn) 11-55-1090	(pn) 11-55-1054	(pn) 11-55-1032	(pn) 11-55-1072	(pn) 11-55-1076
2½" (63mm)	green opaque (medium)	4	1.30	42.02	70.07	105.06	140.15	210.22
				(pn) 11-55-1062	(pn) 11-55-1083	(pn) 11-55-1049	(pn) 11-55-1048	(pn) 11-55-1023
3" (76mm)	green opaque (medium)	4	1.70	54.57	90.98	136.48	181.97	272.95
				(pn) 11-55-1014	(pn) 11-55-1007	(pn) 11-55-1003	(pn) 11-55-1073	(pn) 11-55-1012
4" (102mm)	green opaque (medium)	3	2.70	80.99	135.05	202.57	270.10	405.14
				(pn) 11-55-1025	(pn) 11-55-1063	(pn) 11-55-1082	(pn) 11-55-1006	(pn) 11-55-1101
6" (152mm)	green opaque (medium)	3	5.00	218.18	363.63	545.39	727.26	1090.89
				(pn) 11-55-1021	(pn) 11-55-1055	(pn) 11-55-1081	(pn) 11-55-1002	(pn) 11-55-1017

(pn) = Part Number

LAYFLAT DELIVERY HOSE PVC (soft, flat and flexible, yarn reinforced construction)									code 5
size inches (ID mm)	colour (duty)	working pressure (bar)	packing weight, per metre (kgs)	6 metre coil (£)	10 metre coil (£)	20 metre coil (£)	30 metre coil (£)	50 metre coil (£)	100 metre coil (£)
1" (25mm)	blue (medium)	3	0.16	6.12	9.79	19.69	29.48	45.49	91.09
				(pn) 11-55-1078	(pn) 11-55-1091	(pn) 11-55-1026	(pn) 11-55-1093	(pn) 11-55-1084	(pn) 11-55-1074
1¼" (32mm)	blue (medium)	3	0.17	6.73	11.32	21.83	32.74	52.84	105.57
				(pn) 11-55-1075	(pn) 11-55-1065	(pn) 11-55-1052	(pn) 11-55-1010	(pn) 11-55-1051	(pn) 11-55-1066
1½" (38mm)	blue (medium)	3	0.21	7.85	12.75	25.50	37.13	60.08	120.16
				(pn) 11-55-1011	(pn) 11-55-1099	(pn) 11-55-1035	(pn) 11-55-1095	(pn) 11-55-1079	(pn) 11-55-1087
2" (52mm)	blue (medium)	3	0.28	8.26	13.87	26.93	40.39	63.75	127.50
				(pn) 11-55-1086	(pn) 11-55-1009	(pn) 11-55-1037	(pn) 11-55-1059	(pn) 11-55-1094	(pn) 11-55-1000
3" (76mm)	blue (medium)	3	0.53	12.85	21.52	42.94	64.46	102.00	204.00
				(pn) 11-55-1034	(pn) 11-55-1097	(pn) 11-55-1056	(pn) 11-55-1013	(pn) 11-55-1041	(pn) 11-55-1001
4" (102mm)	blue (medium)	3	0.75	20.81	34.27	68.44	101.59	162.08	324.16
				(pn) 11-55-1067	(pn) 11-55-1045	(pn) 11-55-1096	(pn) 11-55-1088	(pn) 11-55-1028	(pn) 11-55-1004
6" (152mm)	blue (medium)	3	1.30	34.99	58.24	112.91	166.06	264.08	528.05
				(pn) 11-55-1089	(pn) 11-55-1044	(pn) 11-55-1008	(pn) 11-55-1071	(pn) 11-55-1068	(pn) 11-55-1092

DELIVERY

LAYFLAT



SPECIAL PURPOSE

BUDGET DELIVERY

Spiral-helix reinforced, thin and highly flexible PVC delivery hose for very light duty, economy or aquatic use. Supplied in 30 metre coils only.



item code	size inches (ID mm)	working pressure (bar)	packing weight per coil (kgs)	30 metre coil (£)	code
11-55-1015	1" (25mm)	1	4.80	46.00	5
11-55-1027	1¼" (32mm)	1	7.25	62.00	
11-55-1020	1½" (38mm)	1	10.20	77.00	

HIGH PRESSURE DELIVERY

Kink resistant, double layered, highly flexible PVC hose for irrigation and other high pressure water duties. Food and drinking water safe. Ultra-violet and abrasion resistant. Supplied in cut lengths or 25 metre coils.



diameter (inch)	working pressure (bar)	packing weight per metre (kgs)	10 metre coil (£)	15 metre coil (£)	30 metre coil (£)	code
½" (12.5mm)	10	0.14	16.60	24.85	35.00	5
			11-55-1103	11-55-1104	11-55-1105	
¾" (19mm)	8	0.26	29.70	44.55	49.00	
			11-55-1106	11-55-1107	11-55-1108	
1" (25mm)	7	0.42	46.55	69.85	99.00	
			11-55-1109	11-55-1110	11-55-1111	
1¼" (30mm)	8	0.66	71.40	107.10	153.00	
			11-55-1112	11-55-1113	11-55-1114	
2" (50mm)	7	0.8	167.95	251.90	360.00	
			11-55-1115	11-55-1116	11-55-1117	

BRAIDED SUCTION AND DELIVERY

Polyester reinforced, clear PVC flexible hose. Supplied in cut lengths or 30 metre coils.



diameter (inch)	working pressure (bar)	packing weight per metre (kgs)	10 metre coil (£)	15 metre coil (£)	30 metre coil (£)	code
½" (12.5mm)	12	0.13	9.55	14.35	23.00	5
			11-55-1118	11-55-1119	11-55-1120	
¾" (19mm)	10	0.25	18.65	27.95	44.00	
			11-55-1121	11-55-1122	11-55-1123	
1" (25mm)	9	0.40	29.95	44.90	71.00	
			11-55-1124	11-55-1125	11-55-1126	
1¼" (30mm)	7	0.60	55.70	83.55	144.00	
			11-55-1127	11-55-1128	11-55-1129	



BUY INDIVIDUALLY OR
SAVE MORE BY BUYING PACKS.

PIPE FITTINGS

GENERAL PURPOSE

HOSE TAIL C/W FEMALE BSP SWIVEL

HOSE TAIL C/W FEMALE BSP SWIVEL (BSP female x hose i.d. (nom.bore))	POLYPROPYLENE part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
½" x 13mm(½")	13011301	25	0.87	1.45	6
¾" x 20mm(¾")	13011901	25	1.05	1.74	6
1" x 20mm(¾")	1301251901	25	1.22	2.03	6
1" x 25mm(1")	13012501	25	1.25	2.09	6
1¼" x 25mm(1")	1301322501	25	1.67	2.79	6
1¼" x 32mm(1¼")	13013201	25	1.77	2.96	6
1½" x 40mm(1½")	13014001	10	2.88	4.82	6
2" x 50mm(2")	13015001	10	3.78	6.32	6
2" x 50mm(2") c/w lugs	13015001L	2	7.94	8.81	6
3" x 75mm(3") c/w lugs	13018001	2	12.19	13.52	6
4" x 100mm(4") c/w lugs	130110001	2	16.17	17.94	6



HOSE TAIL C/W FEMALE BSP SWIVEL

HOSE TAIL C/W FEMALE BSP SWIVEL (BSP female x hose i.d. (nom.bore))	MALLEABLE IRON part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
2" x 50mm(2") c/w lugs	13015003	2	14.64	16.24	6
3" x 75mm(3") c/w lugs	13018003	2	27.63	30.65	6
4" x 100mm(4") c/w lugs	130110004	2	58.00	64.34	6



HOSE TAIL C/W FEMALE BSP SWIVEL

HOSE TAIL C/W FEMALE BSP SWIVEL (BSP female x hose i.d. (nom.bore))	ALLOY part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
1" x 25mm(1") c/w lugs	13012504	10	6.41	7.11	6
2" x 50mm(2") c/w lugs	13015004	2	25.37	28.14	6
3" x 75mm(3") c/w lugs	13018004	2	38.73	42.96	6



HOSE TAIL C/W FEMALE BSP SWIVEL

HOSE TAIL C/W FEMALE BSP SWIVEL (BSP female x hose i.d. (nom.bore))	BRASS part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
½" x 13mm(½") c/w lugs	13011302	10	1.92	2.13	6
¾" x 20mm(¾") c/w lugs	13011902	10	2.94	3.26	6
1" x 25mm(1") c/w lugs	13012502	10	4.01	4.45	6
1¼" x 32mm(1¼") c/w lugs	13013202	4	8.14	9.03	6
1½" x 38mm(1½") c/w lugs	13014002	4	12.26	13.60	6
2" x 50mm(2") c/w lugs	13015002	2	17.53	19.45	6
3" x 75mm(3") c/w lugs	13018002	2	38.02	42.17	6
4" x 100mm(4") c/w lugs	130110002	2	99.46	110.33	6



PIPE FITTINGS

GENERAL PURPOSE



BUY INDIVIDUALLY OR
SAVE MORE BY BUYING PACKS.



BUY INDIVIDUALLY OR
SAVE MORE BY BUYING PACKS.

PIPE FITTINGS

QUICK RELEASE

WASHERS



WASHERS	RUBBER OR LEATHER	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(to fit hose BSP swivel size)	part number				
½"	13631305	20	0.25	0.27	6
¾"	13631905	20	0.25	0.27	6
1"	13632505	20	0.25	0.27	6
1¼"	13633205	20	0.73	0.81	6
1½"	13634005	20	1.12	1.24	6
2"	13635005	20	0.83	0.92	6
3"	13638005	20	2.29	2.54	6

HOSE TAIL C/W MALE BSP



HOSE TAIL C/W MALE BSP	POLYPROPYLENE	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP male x hose i.d. (nom. bore))	part number				
½" x 13mm(½")	13021301	25	0.49	0.82	6
¾" x 13mm(½")	1304191301	25	0.56	0.93	6
¾" x 20mm(¾")	13021901	25	0.63	1.05	6
¾" x 25mm(1")	1304192501	25	0.73	1.22	6
1" x 20mm(¾")	1304251901	25	0.77	1.28	6
1" x 25mm(1")	13022501	25	0.80	1.34	6
1" x 32mm(1¼")	1304253201	25	0.94	1.57	6
1¼" x 25mm(1")	1304322501	25	1.18	1.98	6
1¼" x 32mm(1¼")	13023201	25	1.29	2.15	6
1¼" x 40mm(1½")	1304324001	25	1.57	2.61	6
1½" x 38mm(1½") & 32(1¼")	130440383201	10	3.19	5.34	6
1½" x 40mm(1½")	13024001	10	2.54	4.24	6
1½" x 50mm(2")	1304405001	10	2.85	4.76	6
2" x 50mm(2")	13025001	10	3.68	6.15	6
3" x 75mm(3")	13028001	6	4.90	8.10	6

HOSE TAIL C/W MALE BSP



HOSE TAIL C/W MALE BSP	BRASS	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP male x hose i.d. (nom. bore))	part number				
½" x 13mm(½")	13021302	10	1.22	1.35	6
¾" x 20mm(¾")	13021902	10	2.43	2.70	6
1" x 20mm(¾")	1304251902	10	3.28	3.64	6
1" x 25mm(1")	13022502	10	4.06	4.50	6
1¼" x 32mm(1¼")	13023202	4	5.44	6.04	6
1½" x 38mm(1½")	13024002	4	8.48	9.40	6
2" x 50mm(2")	13025002	2	11.78	13.07	6
2½" x 65mm(2½")	130256502	2	18.50	20.52	6
3" x 75mm(3")	13028002	2	32.70	36.28	6
4" x 100mm(4")	130210002	2	57.25	63.50	6

AIR HOSE COUPLING C/W FEMALE BSP



AIR HOSE COUPLING C/W FEMALE BSP	ZINC PLATE STEEL	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
hose connection x BSP female	part number				
QR x 1"	130910001	10	3.99	4.42	6

QUICK RELEASE C/W HOSE TAIL



QUICK RELEASE C/W HOSE TAIL	BRASS	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(hose i.d. (nom. bore))	part number				
13mm (½")	13451202	10	2.41	2.67	6
20mm (¾")	13451902	10	2.62	2.91	6
25mm (1")	13452502	10	3.21	3.56	6
32mm (1¼")	13453202	10	4.22	4.69	6
38mm (1½")	13454002	10	6.31	7.00	6

QUICK RELEASE C/W FEMALE BSP



QUICK RELEASE C/W FEMALE BSP	BRASS	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP female)	part number				
½"	13461202	10	2.41	2.67	6
¾"	13461902	10	2.41	2.67	6
1"	13462502	10	2.62	2.91	6
1¼"	13463202	10	4.22	4.69	6
1½"	13464002	10	4.41	4.89	6

QUICK RELEASE C/W MALE BSP



QUICK RELEASE C/W MALE BSP	BRASS	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP male)	part number				
½"	13471202	10	2.41	2.67	6
¾"	13471902	10	2.41	2.67	6
1"	13472502	10	2.62	2.91	6
1¼"	13473202	10	3.32	3.68	6
1½"	13474002	10	4.01	4.45	6

QUICK RELEASE BLANKING CAP



QUICK RELEASE BLANKING CAP	BRASS	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(to fit)	part number				
all sizes	13480002	10	2.62	2.91	6

PIPE FITTINGS

QUICK RELEASE



BUY INDIVIDUALLY OR
SAVE MORE BY BUYING PACKS.



CAM COUPLING C/W HOSE TAIL - PART C

CAM COUPLING C/W HOSE TAIL - PART C (hose i.d. (nom. bore))	ALLOY part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
25mm(1")	13412504	4	3.74	4.41	6
50mm(2")	13415004	4	5.13	6.05	6
75mm(3")	13418004	4	9.16	10.81	6
100mm(4")	134110004	4	19.94	23.52	6



CAM COUPLING C/W FEMALE BSP - PART D

CAM COUPLING C/W FEMALE BSP - PART D (BSP female)	ALLOY part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
1"	13422504	4	3.74	4.41	6
2"	13425004	4	5.13	6.05	6
3"	13428004	4	9.16	10.81	6
4"	134210004	4	18.49	21.81	6



CAM ADAPTOR C/W FEMALE BSP - PART A

CAM ADAPTOR C/W FEMALE BSP - PART A (BSP female)	ALLOY part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
1"	13402504	4	2.43	2.87	6
2"	13405004	4	3.93	4.63	6
3"	13408004	4	6.36	7.50	6
4"	134010004	4	9.95	11.73	6



CAM ADAPTOR C/W HOSE TAIL - PART E

CAM ADAPTOR C/W HOSE TAIL - PART E (hose i.d. (nom.bore))	ALLOY part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
25mm(1")	13432504	4	2.43	2.87	6
50mm(2")	13435004	4	3.93	4.63	6
75mm(3")	13438004	4	6.36	7.50	6
100mm(4")	134310004	4	14.60	17.22	6



BUY INDIVIDUALLY OR
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LEVER LOCK COUPLING - FEMALE

LEVER LOCK COUPLING - FEMALE (coupling size x hose i.d. (nom. bore))	GALVANISED STEEL part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
50mm x 50mm(2")	13875006	4	2.97	3.29	6
89mm x 75mm(3")	13878006	4	6.63	7.36	6
108mm x 102mm(4")	138710006	2	11.80	13.09	6
159mm x 152mm(6")	1387150006	2	17.70	19.64	6



LEVER LOCK COUPLING - MALE

LEVER LOCK COUPLING - MALE (coupling size x hose i.d. (nom. bore))	GALVANISED STEEL part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
50mm x 50mm(2")	13855006	4	11.80	13.09	6
89mm x 75mm(3")	13858006	4	17.97	19.93	6
108mm x 102mm(4")	138510006	2	25.23	27.98	6
159mm x 152mm(6")	13851510006	2	43.19	47.91	6



LEVER LOCK COUPLING - MALE C/W MALE BSP

LEVER LOCK COUPLING - MALE C/W MALE BSP (coupling size x BSP male)	GALVANISED STEEL part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
50mm x 2"	13865006	4	18.65	20.69	6
89mm x 3"	13868006	4	34.74	38.54	6
108mm x 4"	138610006	2	27.10	30.06	6
159mm x 6"	138615006	2	67.88	75.30	6



LEVER LOCK COUPLING - FEMALE C/W MALE BSP

LEVER LOCK COUPLING - FEMALE C/W MALE BSP (coupling size x BSP male)	GALVANISED STEEL part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
50mm x 2"	13905006	4	11.20	12.42	6
89mm x 3"	13908006	4	14.62	16.22	6
108mm x 4"	139010006	2	22.41	24.86	6
159mm x 6"	139015006	2	34.06	37.78	6



PIPE FITTINGS

GENERAL PURPOSE



BUY INDIVIDUALLY OR
SAVE MORE BY BUYING PACKS.



NIPPLE

NIPPLE (BSP male x BSP male)	POLYPROPYLENE part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
½" x ½"	13061301	100	0.32	0.53	6
¾" x ½"	1308191301	100	0.46	0.76	6
¾" x ¾"	13061901	100	0.39	0.64	6
1" x ½"	1308251301	100	0.49	0.82	6
1" x ¾"	1308251901	100	0.53	0.87	6
1" x 1"	13062501	50	0.42	0.70	6
1¼" x ¾"	1308321901	50	0.87	1.45	6
1¼" x 1"	1308322501	50	0.91	1.51	6
1¼" x 1¼"	13063201	50	0.73	1.22	6
1½" x 1"	1308402501	50	1.29	2.15	6
1½" x 1¼"	1308403201	50	1.29	2.15	6
1½" x 1½"	13064001	50	1.05	1.74	6
2" x 1¼"	1308503201	5	1.74	2.90	6
2" x 1½"	1308504001	5	1.77	2.96	6
2" x 2"	13065001	10	1.63	2.73	6
3" x 3"	13068001	2	2.44	4.06	6

NIPPLE

NIPPLE (BSP male x BSP male)	BRASS part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
½" x ½"	13051302	10	2.07	2.29	6
¾" x ½"	1311191303	10	3.79	4.21	6
¾" x ¾"	13051902	10	2.85	3.16	6
1" x ½"	1311251303	10	3.99	4.42	6
1" x ¾"	1311251903	10	4.57	5.07	6
1" x 1"	13052502	10	3.23	3.59	6
1¼" x 1"	1311322503	10	5.47	6.06	6
1¼" x 1¼"	13053202	10	7.09	7.87	6
1½" x 1"	1311402503	5	11.90	13.20	6
1½" x 1¼"	1311403203	5	11.90	13.20	6
1½" x 1½"	13054002	5	7.99	8.86	6
2" x 1"	1311502503	4	35.25	39.10	6
2" x 1¼"	1311503203	4	42.59	47.24	6
2" x 1½"	1311504003	4	30.37	33.69	6
2" x 2"	13055002	4	13.14	14.57	6

NIPPLE

NIPPLE (BSP male x BSP male)	GALVANISED IRON part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
2½" x 2"	1305655003	2	8.16	9.05	6
2½" x 2½"	13056503	2	5.30	5.88	6
3" x 2"	1305805003	2	13.89	15.41	6
3" x 2½"	1305806503	2	13.89	15.41	6
3" x 3"	13058003	2	9.04	10.02	6
4" x 4"	130510003	2	14.28	15.84	6



BUY INDIVIDUALLY OR
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SOCKET

SOCKET (BSP female x BSP female)	POLYPROPYLENE part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
½" x ½"	13131301	100	0.91	1.51	6
¾" x ½"	1316191301	50	0.94	1.57	6
¾" x ¾"	13131901	50	0.98	1.63	6
1" x ¾"	1316251901	50	1.18	1.98	6
1" x 1"	13132501	50	1.18	1.98	6
1¼" x 1"	1316322501	25	1.63	2.73	6
1¼" x 1¼"	13133201	25	2.19	3.66	6
1½" x 1¼"	1316403201	10	2.78	4.64	6
1½" x 1½"	13134001	10	2.61	4.35	6
2" x 1½"	1316504001	5	3.78	6.32	6
2" x 2"	13135001	5	3.78	6.32	6

SOCKET

SOCKET (BSP female x BSP female)	BRASS part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
½" x ½"	13151302	10	2.51	2.78	6
¾" x ¾"	13151902	10	3.40	3.77	6
1" x 1"	13152502	10	4.57	5.07	6
1¼" x 1¼"	13153202	10	8.19	9.08	6
1½" x 1½"	13154002	5	9.33	10.35	6
2" x 2"	13155002	5	18.02	19.99	6

SOCKET

SOCKET (BSP female x BSP female)	GALVANISED IRON part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
2" x 2"	13145003	5	9.30	10.32	6
2½" x 2½"	13146504	2	16.05	17.80	6
3" x 3"	13148003	2	29.01	32.18	6
4" x 4"	131410003	2	65.62	72.79	6
6" x 6"	131415001	2	195.72	217.10	6

BULKHEAD FITTING

BULKHEAD FITTING (BSP male x BSP male)	POLYPROPYLENE part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
¾" x ¾"	13311901	50	2.43	4.06	6
1" x 1"	13312501	50	2.61	4.35	6
2" x 2"	13315001	10	4.03	6.73	6



PIPE FITTINGS

GENERAL PURPOSE

PIPE FITTINGS

GENERAL PURPOSE



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PIPE FITTINGS

GENERAL PURPOSE



BUSH

BUSH	POLYPROPYLENE	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP male x BSP female)	part number				
3/4" x 1/2"	1317191301	50	0.73	1.22	6
3/4" x 1"	1317192501	50	1.08	1.80	6
1" x 1/2"	1317251301	50	0.80	1.34	6
1" x 3/4"	1317251901	50	0.80	1.34	6
1" x 1 1/4"	1317253201	25	1.84	3.08	6
1 1/4" x 3/4"	1317321901	25	1.74	2.90	6
1 1/4" x 1"	1317322501	25	1.84	3.08	6
1 1/4" x 1 1/2"	1317324001	25	2.78	4.64	6
1 1/2" x 3/4"	1317401901	10	2.26	3.77	6
1 1/2" x 1"	1317402501	10	2.26	3.77	6
1 1/2" x 1 1/4"	1317403201	10	2.26	3.77	6
1 1/2" x 2"	1317405001	5	3.75	6.27	6
2" x 1"	1317502501	5	3.02	5.05	6
2" x 1 1/4"	1317503201	5	3.02	5.05	6
2" x 1 1/2"	1317504001	5	3.02	5.05	6
3" x 2"	1317805001	2	15.92	26.62	6



BUSH

BUSH	BRASS	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP male x BSP female)	part number				
3/4" x 1/2"	1318191303	10	2.97	3.29	6
1" x 1/2"	1318251303	10	3.09	3.42	6
1" x 3/4"	1318251903	10	3.09	3.42	6
1 1/4" x 3/4"	1318321903	5	9.52	10.56	6
1 1/4" x 1"	1318322503	5	9.52	10.56	6
1 1/2" x 1"	1318402503	5	10.42	11.56	6
1 1/2" x 1 1/4"	1318403203	5	10.42	11.56	6
2" x 1"	1318502503	4	12.24	13.58	6
2" x 1 1/4"	1318503203	4	11.39	12.63	6
2" x 1 1/2"	1318504003	4	11.39	12.63	6



BUSH

BUSH	GALVANISED IRON	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP male x BSP female)	part number				
2" x 1 1/4"	1359503203	4	2.72	3.02	6
2 1/2" x 2"	1359655003	2	4.52	5.01	6
3" x 2"	1359805003	2	6.66	7.38	6
3" x 2 1/2"	13598065003	2	6.66	7.38	6

ELBOW HOSE TAIL C/W FEMALE BSP SWIVEL

ELBOW HOSE TAIL C/W FEMALE BSP SWIVEL	POLYPROPYLENE	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP female x hose i.d. (nom bore))	part number				
1/2" x 13mm(1/2")	13071301	25	1.18	1.98	6
3/4" x 20mm(3/4")	13071901	25	1.36	2.27	6
1" x 25mm(1")	13072501	25	1.57	2.61	6
1 1/4" x 25mm(1")	1307322501	25	1.98	3.31	6
1 1/4" x 32mm(1 1/4")	13073201	25	2.12	3.54	6
1 1/2" x 40mm(1 1/2")	13074001	10	3.30	5.51	6
2" x 50mm(2")	13075001	10	4.20	7.02	6



ELBOW - FEMALE BSP

ELBOW - FEMALE BSP	POLYPROPYLENE	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP female x BSP female)	part number				
1/2" x 1/2"	13271301	20	0.91	1.51	6
3/4" x 3/4"	13271901	20	1.08	1.80	6
1" x 1"	13272501	20	1.29	2.15	6
1 1/4" x 1 1/4"	13273201	10	2.29	3.83	6
1 1/2" x 1 1/2"	13274001	10	2.78	4.64	6
2" x 2"	13275001	5	4.82	8.06	6



ELBOW - FEMALE BSP

ELBOW - FEMALE BSP	BRASS	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP female x BSP female)	part number				
1/2" x 1/2"	13581302	10	3.04	3.37	6
3/4" x 3/4"	13581902	10	3.79	4.21	6
1" x 1"	13582502	5	14.16	15.70	6
1 1/4" x 1 1/4"	13583202	5	14.28	15.84	6
1 1/2" x 1 1/2"	13584002	5	15.06	16.70	6
2" x 2"	13585002	4	25.62	28.41	6



ELBOW - FEMALE BSP

ELBOW - FEMALE BSP	GALVANISED IRON	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP female x BSP female)	part number				
2 1/2" x 2 1/2"	13586503	2	8.60	9.54	6
3" x 3"	13588003	2	13.07	14.49	6
4" x 4"	135810003	2	23.55	26.13	6



PIPE FITTINGS

GENERAL PURPOSE



BUY INDIVIDUALLY OR
SAVE MORE BY BUYING PACKS.



BUY INDIVIDUALLY OR
SAVE MORE BY BUYING PACKS.

PIPE FITTINGS

GENERAL PURPOSE

ELBOW - HOSE TAILS



ELBOW - HOSE TAILS	NYLON	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(hose i.d. (nom.bore))	part number				
13mm x 13mm (½" x ½")	13291301	10	1.02	1.14	6
20mm x 20mm (¾" x ¾")	13291901	10	1.29	1.43	6
25mm x 25mm (1" x 1")	13292501	10	2.41	2.67	6
32mm x 32mm (1¼" x 1¼")	13293201	10	5.83	6.47	6
38mm x 38mm (1½" x 1½")	13294001	5	6.27	6.95	6
50mm x 50mm (2" x 2")	13295001	5	9.72	10.78	6

TEE - HOSE TAILS



TEE - HOSE TAILS	NYLON	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(hose i.d x hose i.d x hose i.d (nom. bore))	part number				
13mm x 13mm x 13mm (½" x ½" x ½")	13261301	10	1.32	1.46	6
20mm x 20mm x 20mm (¾" x ¾" x ¾")	13261901	10	1.66	1.84	6
25mm x 25mm x 25mm (1" x 1" x 1")	13262501	10	2.34	2.59	6
32mm x 32mm x 32mm (1¼" x 1¼" x 1¼")	13263201	10	4.01	4.45	6
38mm x 38mm x 38mm (1½" x 1½" x 1½")	13264001	5	5.05	5.61	6
50mm x 50mm x 50mm (2" x 2" x 2")	13265001	5	22.68	25.16	6

TEE - FEMALE BSP



TEE - FEMALE BSP	POLYPROPYLENE	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP female x BSP female x BSP female)	part number				
½" x ½" x ½"	13191301	10	1.29	2.15	6
¾" x ¾" x ¾"	13191901	10	1.50	2.50	6
1" x 1" x 1"	13192501	10	1.84	3.08	6
1¼" x 1¼" x 1¼"	13193201	10	3.40	5.69	6
1½" x 1½" x 1½"	13194001	5	5.38	8.99	6
2" x 2" x 2"	13195001	5	7.70	12.88	6

HOSE JOINER



HOSE JOINER	STEEL	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(hose i.d. (nom. bore))	part number				
13mm (½")	13381302	5	3.19	3.53	6
20mm (¾")	13381904	5	4.81	5.34	6
25mm (1")	13382504	5	6.88	7.63	6

TEE - FEMALE BSP



TEE - FEMALE BSP	BRASS	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP female x BSP female x BSP female)	part number				
½" x ½" x ½"	13251303	10	4.57	5.07	6
¾" x ¾" x ¾"	13251903	10	5.81	6.44	6
1" x 1" x 1"	13252503	10	10.10	11.21	6
1¼" x 1¼" x 1¼"	13253203	5	14.93	16.57	6
1½" x 1½" x 1½"	13254003	5	21.37	23.70	6
2" x 2" x 2"	13255003	4	28.58	31.70	6

HOSE JOINER



HOSE JOINER	ALLOY	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(hose i.d. (nom. bore))	part number				
32mm (1¼")	13383204	5	3.45	3.83	6
38mm (1½")	13384004	5	4.57	5.07	6
50mm (2")	13385004	5	5.56	6.17	6
75mm (3")	13388004	2	13.84	15.35	6
100mm (4")	133810004	2	20.18	22.38	6

TEE - MALE BSP



TEE - MALE BSP	POLYPROPYLENE	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP male x BSP male x BSP male)	part number				
½" x ½" x ½"	13201301	50	1.22	1.35	6
1" x 1" x 1"	13202501	20	1.83	2.02	6
1¼" x 1¼" x 1¼"	13203201	10	2.43	2.70	6
1½" x 1½" x 1½"	13204001	5	3.65	4.04	6

GATE VALVE



GATE VALVE	BRASS	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP female)	part number				
½"	13491302	4	4.42	4.91	6
¾"	13491902	4	6.88	7.63	6
1"	13492502	4	9.16	10.16	6
1¼"	13493202	4	14.06	15.60	6
1½"	13494002	4	17.99	19.96	6
2"	13495002	4	28.58	31.70	6
2½"	13496502	4	47.51	52.70	6
3"	13498002	4	74.65	82.81	6
4"	134910002	4	120.88	134.08	6

PIPE FITTINGS

VALVES



BUY INDIVIDUALLY OR
SAVE MORE BY BUYING PACKS.



BUY INDIVIDUALLY OR
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PIPE FITTINGS

VALVES



BALL VALVE

BALL VALVE (BSP female)	BRASS part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
½"	13531302	4	3.65	4.04	6
¾"	13531902	4	5.22	5.79	6
1"	13532502	4	9.01	10.00	6
1¼"	13533201	4	13.43	14.90	6
1½"	13534002	4	20.20	22.41	6
2"	13535002	4	30.62	33.96	6
2½"	13536502	4	73.08	81.06	6
3"	13538002	4	100.36	111.33	6
4"	135310002	4	154.01	170.84	6



NON RETURN VALVE - SWING CHECK

NON RETURN VALVE - SWING CHECK (BSP female)	BRASS C/W RUBBER VALVE part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
1"	13542502	4	9.47	10.51	6
1¼"	13543202	4	14.84	16.46	6
1½"	13544002	4	23.67	26.26	6
2"	13545002	2	32.19	35.71	6
2½"	13546502	2	50.35	55.85	6
3"	13548002	2	97.21	107.82	6
4"	135410002	2	155.59	172.59	6



NON RETURN VALVE - SPRING CHECK

NON RETURN VALVE - SPRING CHECK (BSP female)	POLY C/W NYLON VALVE part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
1"	13552501	4	3.16	3.51	6



NON RETURN VALVE - SPRING CHECK

NON RETURN VALVE - SPRING CHECK (BSP female)	BRASS C/W NYLON VALVE part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
½"	13561302	4	6.05	6.71	6
¾"	13561902	4	8.33	9.24	6
1"	13562502	4	10.47	11.61	6
1¼"	13563202	4	15.64	17.35	6
1½"	13564002	4	23.29	25.83	6
2"	13565002	2	31.95	35.44	6
2½"	13566502	2	60.67	67.30	6
3"	13568002	2	84.46	93.69	6
4"	135610002	2	146.83	162.87	6

FOOT VALVE AND STRAINER

FOOT VALVE AND STRAINER (BSP female)	BRASS, S/STEEL C/W NYLON VALVE part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
½"	13571302	4	5.20	5.77	6
¾"	13571902	4	6.56	7.28	6
1"	13572502	4	7.99	8.86	6
1¼"	13573202	4	11.66	12.93	6
1½"	13574002	4	16.93	18.77	6
2"	13575002	2	24.14	26.77	6
3"	13578002	2	64.07	71.07	6
4"	135710002	2	109.10	121.02	6



FOOT VALVE AND STRAINER

FOOT VALVE AND STRAINER (hose I.d. (nom. bore))	CAST IRON C/W RUBBER VALVE part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
50mm (2")	13625004	2	32.19	35.71	6
75mm (3")	13628004	2	51.57	57.20	6
100mm (4")	136210004	2	91.79	101.82	6



INLINE STRAINER

INLINE STRAINER (BSP female)	BRASS C/W S/STEEL ELEMENT part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
1"	13782502	4	14.18	15.73	6
1¼"	13783202	4	22.78	25.26	6
1½"	13784002	4	29.60	32.83	6
2"	13785002	2	54.60	60.57	6
3"	13788002	2	135.13	149.89	6
4"	137810002	2	295.93	328.26	6



FINE MESH STRAINER C/W MALE BSP

FINE MESH STRAINER C/W MALE BSP (BSP male)	STAINLESS STEEL part number	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
½"	13771304	6	1.27	1.41	6
¾"	13771904	6	1.44	1.59	6
1"	13772504	6	1.68	1.86	6
1¼"	13773204	6	2.21	2.46	6
1½"	13774004	4	2.72	3.02	6
2"	13775004	4	3.50	3.88	6
3"	13778004	2	8.33	9.24	6
4"	137710004	2	11.05	12.26	6



PIPE FITTINGS

STRAINERS



BUY INDIVIDUALLY OR
SAVE MORE BY BUYING PACKS.

STRAINER C/W HOSE TAIL

STRAINER C/W HOSE TAIL	TIN	unit packing weight (kgs)	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(hose i.d. (nom. bore))	part number					
25mm (1")	13602504	0.184	4	6.90	7.65	6
32mm (1¼")	13603204	0.350	4	6.90	7.65	6
38mm (1½")	13604004	0.300	4	7.00	7.76	6
50mm (2")	13605004	0.341	4	6.92	7.68	6
75mm (3")	13608004	0.626	4	13.02	14.44	6
100mm (4")	13601004	1.162	4	37.05	41.10	6



STRAINER C/W FEMALE BSP

STRAINER C/W FEMALE BSP	TIN	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP female)	part number				
50mm (2")	13665004	4	19.77	21.92	6
75mm (3")	13668004	4	34.62	38.40	6
100mm (4")	136610004	4	73.03	81.00	6



TRASH STRAINER (20MM SOLIDS) C/W HOSE TAIL

TRASH STRAINER (20MM SOLIDS) C/W HOSE TAIL	TIN	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(hose i.d. (nom. bore))	part number				
50mm (2")	13615004	4	28.86	34.17	6
75mm (3")	13618004	4	37.02	43.84	6



TRASH STRAINER (20MM SOLIDS) C/W HOSE TAIL

TRASH STRAINER (20MM SOLIDS) C/W HOSE TAIL	POLYPROPYLENE	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(hose i.d. (nom. bore))	part number				
50mm (2")	13615002	4	4.28	4.74	6
75mm (3")	13618002	4	6.41	7.11	6



BUY INDIVIDUALLY OR
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HOSE CLIP

HOSE CLIP	STAINLESS STEEL	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(span)	part number				
8-12mm	139101	10	0.61	0.71	6
10-16mm	139102	10	0.61	0.71	6
12-20mm	139103	10	0.66	0.77	6
16-27mm	139104	10	0.66	0.77	6
20-32mm	139105	10	0.66	0.77	6
25-40mm	139106	10	0.69	0.80	6
32-50mm	139107	10	0.82	0.95	6
40-60mm	139108	10	0.82	0.95	6
50-70mm	139109	10	0.87	1.01	6
60-80mm	139110	10	1.01	1.17	6
70-90mm	139111	10	1.11	1.29	6
80-100mm	139112	10	1.11	1.29	6
90-110mm	139113	10	1.22	1.41	6
100-120mm	139114	10	1.24	1.44	6
110-130mm	139115	10	1.24	1.44	6
120-140mm	139116	10	1.43	1.66	6
140-160mm	139117	10	1.64	1.90	6
150-170mm	139118	10	1.87	2.18	6
160-180mm	139119	10	2.14	2.48	6
190-210mm	139120	10	2.48	2.88	6



HOSE CLAMP (NOMINAL HOSE SIZE & TYPE)

HOSE CLAMP (NOMINAL HOSE SIZE & TYPE)	STAINLESS STEEL	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(span)	part number				
26-29mm (25mm layflat)	139226	10	1.98	2.30	6
29-31mm (25mm suction)	139225	10	2.24	2.61	6
40-43mm (40mm layflat)	139241	10	2.32	2.70	6
44-47mm (40mm suction)	139240	10	2.82	3.28	6
52-55mm (50mm layflat)	139251	10	3.01	3.49	6
56-59mm (50mm suction)	139250	10	3.01	3.49	6
80-85mm (80mm layflat & suction)	139280	10	4.45	5.18	6
98-103mm (100mm layflat)	1392101	10	4.72	5.48	6
104-112mm (100mm suction)	1392100	10	4.79	5.57	6
149-161mm (150mm layflat)	1392150	10	7.53	8.76	6
162-174mm (150mm suction & special)	1392151	10	7.72	8.97	6

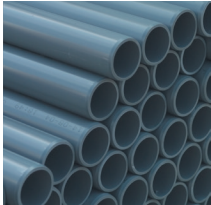


PVC PIPE & FITTINGS



BUY INDIVIDUALLY OR
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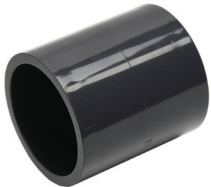
PVC PRESSURE PIPE



PRESSURE PIPE

PRESSURE PIPE, PLAIN END, GREY	PVC-U	unit packing weight (kgs)	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(Imperial size x wall thickness (mm) BS3505 x length)	part number					
1" x 2.2mm Class E-PN 15 x 3 metres	14-038	0.90	6	1.38	1.53	6
1¼" x 2.2mm Class D-PN12 3 metres	14-039	1.20	6	1.86	2.06	6
1½" x 3.1mm Class E-PN 3 metres	14-040	1.80	6	2.78	3.09	6
2" x 3.1mm Class D-PN12 3 metres	14-041	2.70	4	3.50	3.88	6
3" x 4.6mm Class D-PN12 3 metres	14-042	5.70	4	7.57	8.40	6

SOCKET



SOCKET, 10 BAR, GREY	PVC-U	unit packing weight (kgs)	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(Imperial glue socket x imperial glue socket)	part number					
1" x 1"	14-046	0.03	6	0.55	0.61	6
1¼" x 1¼"	14-047	0.04	6	0.95	1.06	6
1½" x 1½"	14-048	0.07	6	1.12	1.24	6
2" x 2"	14-049	0.14	4	1.57	1.74	6
3" x 3"	14-050	0.40	4	6.07	6.74	6

NIPPLE



NIPPLE, 10 BAR, GREY	PVC-U	unit packing weight (kgs)	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(BSP male x BSP male)	part number					
1" x 1"	14-001	0.03	6	1.12	1.24	6
1¼" x 1¼"	14-002	0.05	6	1.93	2.14	6
1½" x 1½"	14-003	0.07	6	2.50	2.77	6
2" x 2"	14-004	0.10	4	2.93	3.25	6
2½" x 2½"	14-005	0.19	4	4.36	4.83	6
3" x 3"	14-006	0.25	4	6.35	7.05	6

ADAPTOR SOCKET



ADAPTOR SPIGOT, 10 BAR, GREY	PVC-U	unit packing weight (kgs)	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(imperial glue socket x BSP male)	part number					
1" x 1"	14-010	0.03	6	0.95	1.06	6
1¼" x 1¼"	14-011	0.06	6	1.50	1.66	6
1½" x 1½"	14-012	0.08	6	2.21	2.46	6
2" x 2"	14-013	0.12	4	2.93	3.25	6
3" x 3"	14-014	0.25	4	10.07	11.17	6

PVC PIPE FITTINGS



BUY INDIVIDUALLY OR
SAVE MORE BY BUYING PACKS.

PVC PRESSURE PIPE

ADAPTOR SPIGOT

ADAPTOR SPIGOT, 10 BAR, GREY	PVC-U	unit packing weight (kgs)	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(imperial glue spigot x BSP male)	part number					
1" x 1"	14-033	0.06	6	2.00	2.22	6
1¼" x 1¼"	14-034	0.07	6	2.64	2.93	6
1½" x 1½"	14-035	0.08	6	2.78	3.09	6
2" x 2"	14-036	0.11	4	3.71	4.12	6
3" x 3"	14-037	0.27	4	9.71	10.78	6



ADAPTOR SPIGOT

ADAPTOR SPIGOT, 10 BAR, GREY	PVC-U	unit packing weight (kgs)	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(imperial glue spigot x BSP female)	part number					
1¼" x 1¼"	14-015	0.06	6	5.28	5.86	6
1½" x 1½"	14-016	0.08	6	6.14	6.82	6
2" x 2"	14-017	0.12	4	11.14	12.36	6



ELBOW

ELBOW 90°, 16 BAR, GREY	PVC-U	unit packing weight (kgs)	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(imperial glue socket x imperial glue socket)	part number					
1" x 1"	14-023	0.05	6	0.90	1.00	6
1¼" x 1¼"	14-024	0.07	6	1.57	1.74	6
1½" x 1½"	14-025	0.12	6	2.07	2.30	6
2" x 2"	14-026	0.25	4	3.07	3.41	6
3" x 3"	14-027	0.58	4	8.71	9.67	6



T-PIECE

T-PIECE 90°, 16 BAR, GREY	PVC-U	unit packing weight (kgs)	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(imperial glue socket x imperial glue socket x imperial glue socket)	part number					
1" x 1" x 1"	14-028	0.06	6	1.19	1.32	6
1¼" x 1¼" x 1¼"	14-029	0.09	6	1.71	1.90	6
1½" x 1½" x 1½"	14-030	0.18	6	2.50	2.77	6
2" x 2" x 2"	14-031	0.34	4	3.93	4.36	6
3" x 3" x 3"	14-032	0.75	4	11.35	12.60	6



PVC PIPE FITTINGS



BUY INDIVIDUALLY OR
SAVE MORE BY BUYING PACKS.

PVC PRESSURE PIPE



UNION COUPLER

UNION COUPLER, 10 - 16 BAR, GREY	PVC-U	unit packing weight (kgs)	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(imperial glue socket x imperial glue socket)	part number					
1" x 1" (16 bar)	14-018	0.11	6	3.57	3.96	6
1¼" x 1¼" (16 bar)	14-019	0.14	6	4.57	5.07	6
1½" x 1½" (16 bar)	14-020	0.18	6	6.14	6.82	6
2" x 2" (16 bar)	14-021	0.32	4	8.00	8.88	6
3" x 3" (10 bar)	14-022	0.81	4	30.70	34.08	6



SERVICE SADDLE

SERVICE SADDLE, 10BAR, BLACK (S/STEEL RING, NBR SEAL)	PP	unit packing weight (kgs)	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(pipe diameter x clamp, female thread)	part number					
110 mm x 1¼"	14-007	0.57	2	7.28	8.08	6
110 mm x 1½"	14-008	0.59	2	7.28	8.08	6
110 mm x 2"	14-009	0.62	2	7.28	8.08	6
110 mm x 3"	14-051	0.64	2	9.85	10.94	6



PVC GLUE

PVC GLUE	SOLVENT	unit packing weight (kgs)	units per pack	price (£) per unit in a pack	price (£) per unit less than a pack	code
(bonding cement)	part number					
Mega PVC glue 1ltr with brush type S3	14-043	1.00	2	36.41	40.41	6

Flow and Pressure

Flow Rates			
Gallons per Minute x 4.545 = Litres per Minute		Gallons per Minute x 4.545 = Litres per Minute	
GPM	LPM	LPM	GPM
1	4.545	5	1.1
2	9.09	10	2.2
3	13.64	15	3.3
4	18.18	20	4.4
5	22.73	25	5.5
6	27.27	30	6.6
7	31.82	35	7.7
8	36.36	40	8.8
9	40.91	45	9.9
10	45.45	50	11.0

Litres per Minute	x 13.20	= Gallons per Hour
Gallons per Minute	x 272.70	= Litres per Hour

Litres per Second	x 3.60	= Metres³ per Hour
Metres³ per Hour	x 0.2778	= Litres per Second

Litres per Second	x 0.001	= Metres³ per Second
Litres per Second	x 0.06	= Metres per Minute
Metres³ per Hour	x 16.66	= Litres per Minute
Metres³ per Hour	x 100	= Litres per Hour

Pressures				
BARS (Kg per Cm²) x 10 = Metres of Water x 14.22 = Pounds per Sq. Inch x 32.81 = Feet of Water x 0.97 = Atmospheres				
Bar (Kg per Cm²)	Metres of Water	PSI	Feet of Water	Atmospheres
0.5	5	7.11	16.41	0.49
1	10	14.22	32.81	0.97
1.5	15	21.33	49.22	1.46
2	20	28.44	65.62	1.94
2.5	25	35.55	82.03	2.43
3	30	42.66	98.43	2.91
3.5	35	49.77	114.84	3.40
4	40	56.88	131.24	3.88
4.5	45	63.99	147.65	4.37
5	50	71.10	164.05	4.85

Metres of Water	x 0.1 = Bars (Kg per Sq. Cm) x 3.281 = Feet of Water x 1.422 = Pounds per Sq. Inch x 0.097 = Atmospheres
Pounds per Sq. Inch (PSI)	x 0.07 = Bars (Kg per Sq. Cm) x 0.703 = Metres of Water x 2.309 = Feet of Water x 0.068 = Atmospheres
Feet of Water	x 0.03 = Bars (Kg per Sq. Cm) x 0.305 = Metres of Water x 0.434 = Pounds per Sq. Inch x 0.029 = Atmospheres
Atmospheres	x 1.033 = Bars (Kg per Sq. Cm) x 10.33 = Metres of Water x 33.9 = Feet of Water x 14.7 = Pounds per Sq. Inch

Approximate Equivalents

Weight	Volume	Volume	Length
1 oz = 28.35 grams	1 cm³ = 0.061 in³	1 litre = 0.035 ft³	1 mm = 0.039 in
1 lb = 16 oz	1 inch³ = 16.387 cm³	1 litre = 0.220 gallons	1 cm = 0.394 in
1 lb = 0.454 kg	1 ft³ = 0.028 m³	1 litre = 0.001 m³	1 in = 2.540 cm
1 kg = 2.205 lb	1 metre³ = 35.315 ft³	1 litre = 1000 cm³	1 ft = 0.305 m
1 kg = 1000 grams	1 metre³ = 1000 litres	1 gallon = 4.545 litres	1 m = 3.281 ft
	1 metre³ = 220 gallons	1 gallon = 0.004545 m³	1 km = 0.621 miles
			1 mile = 1.609 km
Temperatures			
C = (F-32) ÷ 1.8			
F = (1.8 x C) + 32			

NOTES



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