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WELCOME TO OUR 2014 CATALOGUE

With over fifty years' experience, T-T is one of the UK's leading companies in the design, manufacture, supply and installation of pumps, controls, valves and environmental products and systems. These products are complemented by our support services, including project assistance from concept to handover, after-sales support and service agreements.

A wholly British owned company with true independence that can only serve clients' best interests. It maintains the highest standard of professionalism and quality in design, selection and economy.

T-T's capital investment programme including the arrival of new larger machine-tools, additional 3 and 5 tonne overhead cranes and completion of a warehouse expansion covering 11,000 ft² will allow for better customer response and service. 2014 and this new catalogue brings many product developments to our customers including:

- New Uniqa® range of heavy duty submersible sewage pumps, incorporating IE3 motors as standard, ranging from 4kW to 200kW
- Improved Goliath Super drainage pump
- Extended ranges in our contractors series, including the Liberator and Trencher 1500, unique pumps capable of 21m head and 650 l/min flows with 110V models available
- Aquavault resilient seat gate valve, according to EN1074 & BS5163, DN50 to DN300 and rated to 16 bar. Other new valve additions include equilibrium ball float valve, pressure reducing valve and saferise double orifice air valve

T-T's staff, with their excellent product and application knowledge and experience are waiting to assist you. Contact our team today for further information, support with product selection or to discuss your bespoke project.



UNVEILED!



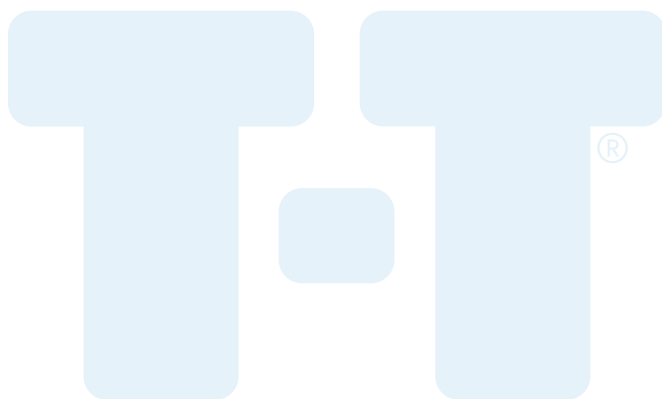
T-T ARE PLEASED TO ANNOUNCE THE ARRIVAL OF:



HIGH PERFORMANCE, LOW ENERGY, SUBMERSIBLE SEWAGE PUMP



RESILIENT SEAT WEDGE GATE VALVE



T-T reserve the right to amend product pricing and technical specifications without prior notice. Please refer to our website or contact our sales team for accurate information. ©T-T PUMPS Ltd. 2013. All images are for illustration purposes only.



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CONTACT US

TELEPHONE

+44 (0) 1630 647200
8am - 5.30pm, Monday - Friday



FAX

+44 (0) 1630 642100



WEB

www.ttpumps.com
Shop online securely, 24 hours a day,
7 days a week



EMAIL

response@ttpumps.com



POST

Onneley Works, Newcastle Road, Woore,
Cheshire, CW3 9RU, England



TRADE COUNTER

8am - 5pm, Monday - Thursday
8am - 4.30pm, Friday



REPAIR FACILITIES

T-T has invested heavily in a state of the art repair and service centre at our head office to complement the current facilities. Equipped with a 3 tonne lifting crane and full test facilities, T-T is able to accommodate all makes and models of pumps and pumping systems.



We also boast dedicated clean water facilities, wholly separate from our other workshops.



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SEE THE PRODUCT RANGE

See T-T's product range and talk to our friendly experts face-to-face.

WHERE TO SEE US

- At T-T Head Office, Woore, Cheshire
- At various exhibitions and shows throughout the UK - keep up to date on web or social media sites
- At sporting events
- Demovan, equipped with the latest T-T products, a great 'hands on' way to view our range. Contact us to arrange a visit

We have representatives and service engineers located all over the country, call today for a site visit.



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10 GREAT REASONS TO VISIT OUR WEBSITE



www.ttpumps.com



- 1 - BUY ONLINE, QUICK SECURE & EASY TO USE
- 2 - 5% DISCOUNT
- 3 - LATEST PRICES
- 4 - LATEST PRODUCTS & PROMOTIONS
- 5 - DOWNLOADABLE TECHNICAL DATASHEETS
- 6 - CUSTOMER REVIEWS / CASE STUDIES
- 7 - SELECTION QUESTIONNAIRES
- 8 - NEWS UPDATES
- 9 - HOW TO'S / BEST WAY TO DO IT
- 10 - DRAWING REGISTER

SOCIAL MEDIA

LIKE US ON...



T-T Pumps Ltd

FOLLOW US ON...



@TTPumpsLtd

WATCH US ON...



FREE DRAWING REGISTER

Register today for your **FREE** package pumping and adoptable station drawings (pdf or CAD) at www.ttpumps.com

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TRAINING

T-T is committed to supporting its customers and therefore regularly runs training sessions at the Headquarters on a wide range of products and services. For more information and to discuss your requirements call today!

- Training facilities
- Access to all products, including cutaways and exploded views
- Experienced and knowledgeable staff
- Test facilities
- A wide range of topics
- Training can be tailored to suit your company's needs



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T-T DELIVERY



It is our key objective to get your order out to you quickly and efficiently. After receiving your order we will give it our full attention and dispatch to meet your requirements, using quality carriers. Many of T-T's products include next day delivery, please find detailed information below.

BAND A Delivery free of charge

BAND B Delivery extra

BAND C Delivery extra

A
B
C



UK & MAINLAND SCOTLAND

- Under 25kg £12.00
- 25kg - 100kg £12.00 for 25kg, then an additional £0.30 per kg
- Pre-9am £40 for 20kg + £0.30 per kg up to 100kg then it goes to pallet
- Pre-10am £32 for 20kg + £0.30 per kg up to 100kg then it goes to pallet
- Pre-noon £24 for 20kg + £0.30 per kg up to 100kg then it goes to pallet
- Saturday am £40 for 20kg + £0.30 per kg up to 100kg then it goes to pallet

PALLET RATES

- 0 - 250kg £60
- 250 - 500kg £78
- 501 - 1000kg £95
- Scottish Highlands - 2/3 Day only £20 + £0.78 per kg up to 100kg then it goes to pallet (above)

- Channel Islands - 2/3 Day only £42 + £0.90 per kg up to 100kg then it goes to pallet (above)
- Isle of Wight - 2/3 Day only £42 + £0.90 per kg up to 100kg then it goes to pallet (above)
- Isle of Man - 2/3 Day only £20 + £0.60 per kg up to 100kg then it goes to pallet (above)

IRELAND COLLECTION

From T-T or price to be advised.

MAINLAND EUROPE

Price to be advised.

WORLDWIDE

Please contact T-T directly to discuss your needs.

Delivery prices are for guidance only. Prices are subject to change.

CERTIFICATION

ACCREDITATIONS



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BRANDS

T-T has worked hard over the years to establish a number of recognisable logos / brand names, these are listed below:

MAIN BRANDS



OUR SUPPLIERS



OTHER PRODUCT BRANDS

- Trencher
- Liberator
- Puddlepal
- Hi-Dro Boost
- Goliath
- Ballbrake
- T-T Agriculture
- T-T Environment
- Planet
- Mercury
- Jupiter
- Venus
- Saturn
- Pluto
- Sumpy
- T-T Projects
- Aquagate
- T-T Enviro
- Farmwash
- Pondlife
- Utility Box
- Kino Titan
- Aquabrake
- Loopak
- Aquaduct
- Guardian
- Nastec
- Saferise



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POTABLE /
CLEAN WATER
PUMPS
PUMPS
СГЕАН МАТЕР
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CLEAN WATER PRODUCTS INDEX

PUMP TYPE	MAX FLOW m ³ /h	MAX FLOW l/sec	MAX HEAD m	APPLICATIONS				PAGE
				 INDUSTRIAL	 CLEAN WATER	 IRRIGATION	 GENERAL APPLICATIONS	
T-T TURBO	2.4	0.67	80	✓	✓	✓	✓	04
T-T RL	7.5	2.08	29	✓	✓	✓	✓	05
T-T RL2	13.5	3.75	92	✓	✓	✓	✓	06
T-T JET	4.8	1.33	42	✓	✓	✓	✓	07
T-T JET X	4.2	1.17	55	✓	✓	✓	✓	08
T-T MULTI	7.8	2.17	100	✓	✓	✓	✓	09
T-T FARM WASH	11	3.05	54	✓	✗	✗	✓	10
JET	3	0.83	43	✓	✓	✓	✓	11
CHL	28	7.78	60	✓	✓	✓	✓	12
SWB	10	2.78	27	✓	✓	✓	✓	14
MS	27	7.5	28	✓	✓	✓	✓	15
SO, SC RANGE	22.4	6.22	22.5	✓	✓	✓	✓	16
QY RANGE	18	5	70	✓	✓	✓	✓	17
ZS	68	18.89	70	✓	✓	✓	✓	18
NISO	200	55.56	144	✓	✓	✓	✓	19
CDL/CDLF	180	50	150	✓	✓	✓	✓	20
BOOSTER SETS	4.2	1.17	55	✓	✓	✓	✓	23
RC500/RC900	7.2	2	60	✓	✓	✓	✓	26
T-T WELL	4.8	1.33	90	✓	✓	✓	✓	27
T-T BOOSTER	2.4	0.67	100	✓	✓	✓	✓	28
SJ RANGE	75	20.83	300	✓	✓	✓	✓	29
4HS RANGE	9	2.5	200	✓	✓	✓	✓	30

Other products featured include:

HiDro Boost, expansion tanks, pressure vessels, pressure switches, VASCO variable speed drive.

T-T reserve the right to amend product pricing and technical specifications without prior notice. Please refer to our website or contact our sales team for accurate information.
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INTRODUCTION

A really exciting comprehensive range of quality products for clean water applications. Our knowledge and experience combined with the latest pump technology enables us to meet your needs, whether it's off-the-shelf products or a bespoke boosting system.

PRODUCTS

- Stainless steel multistage horizontal and vertical pumps
- Stainless steel borehole pumps
- Immersion type multistage centrifugal pumps
- Stainless steel pumps for conveying mixed gases and liquids
- Horizontal single stage centrifugal pumps
- Light stainless steel horizontal single stage centrifugal pumps
- Booster sets
- Wash-down sets
- Accessories

APPLICATIONS

- Water supply & boosting
- Cooling circuits
- Irrigation
- Heating & ventilation
- Borehole
- Leisure
- High volume washing



T-T Service®

CLEAN WATER PUMPING SERVICES

Skilled engineers with fully equipped vehicles are based around the UK, and endeavour to carry out work on site to all makes of systems. The team is dedicated to working exclusively on clean water pressurisation and boosting systems avoiding any cross contamination.

- Breakdown service for minimal disruption
- Servicing of hot and cold systems
- Chlorination of water tanks
- Water testing with fully independent certification
- Pressurisation of vessels
- Remote monitoring for around the clock support
- Planned inspections to your systems' needs
- Maintenance contracts

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T-T TURBO

The T-T Turbo is an economical transfer pump, for domestic and industrial use. Ideal for clear water without abrasive particles or chemically aggressive substances.

Cast iron body, brass peripheral impeller, and stainless steel shaft fitted with a ceramic-graphite-NBR mechanical seal.

APPLICATIONS

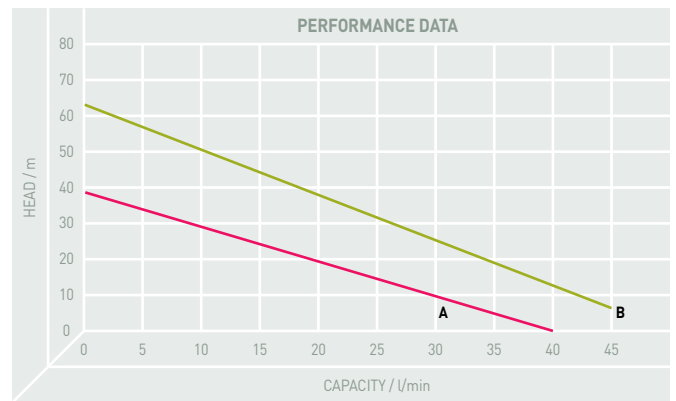
- DOMESTIC & INDUSTRIAL USE
- WATER TRANSFER
- BOOSTING
- DECANTING
- PROCESSING

FEATURES

- CAST IRON CONSTRUCTION
- BRASS IMPELLER
- SELF-PRIMING
- MECHANICAL SEAL
- 0.37 - 0.55kW OUTPUT
- 25mm DISCHARGE
- LIQUID TEMPERATURE UP TO 60°C
- IP44 MOTOR



T-T TURBO



	PUMP TYPE	CURVE	INLET x OUTLET " / mm	kW	WEIGHT kg	CODE	PRICE £
01	T-T TURBO 40 230V/1Ph	/ A	1" / 25mm	0.37	6.5	PW/TURBO40	95
02	T-T TURBO 65 230V/1Ph	/ B	1" / 25mm	0.55	8	PW/TURBO65	150

T-T RL

The T-T RL is a single stage centrifugal pump for clear water without abrasive particles or chemically aggressive substances.

Cast iron pump body, Noryl impeller and stainless steel shaft fitted with ceramic-graphite-NBR mechanical seal.

APPLICATIONS

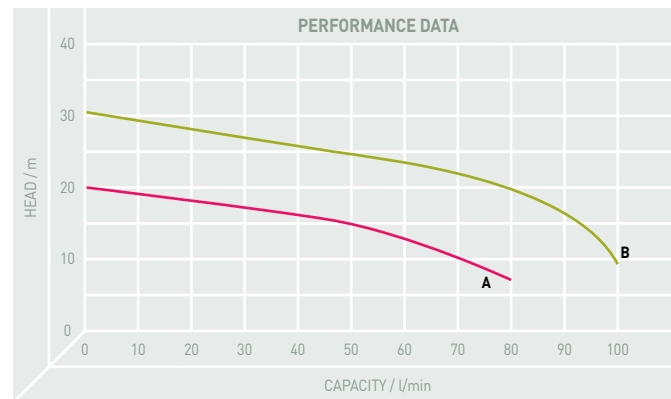
- DOMESTIC & INDUSTRIAL USE
- FEEDING OF PRESSURE SYSTEMS
- WATER TRANSFER
- IRRIGATION

FEATURES

- CAST IRON BODY
- NORYL IMPELLER
- MECHANICAL SEAL
- 0.37 - 0.75kW OUTPUT
- 25mm INLET, 25mm OUTLET
- LIQUID TEMPERATURE UP TO 40°C
- IP44 MOTOR



T-T RL



PUMP TYPE	CURVE	INLET x OUTLET "/ mm	kW	WEIGHT kg	CODE	PRICE £
T-T RL 50 230V/1Ph	/ A	1" x 1" / 25mm x 25mm	0.37	9.5	PW/RL50	230
T-T RL 100 230V/1Ph	/ B	1" x 1" / 25mm x 25mm	0.75	13	PW/RL100	250



This pump is suitable for pressurised systems.

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T-T RL2

The T-T RL2 is a centrifugal pump for the drainage of clear water without abrasive particles or chemically aggressive substances.

Cast iron pump body and Noryl impeller, with stainless steel shaft fitted with ceramic-graphite-NBR mechanical seal.

APPLICATIONS

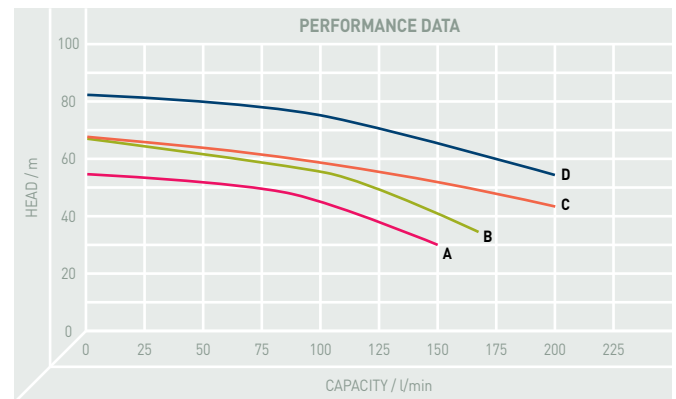
- DOMESTIC & INDUSTRIAL USE
- FEEDING OF PRESSURE SYSTEMS
- WATER TRANSFER
- IRRIGATION

FEATURES

- CAST IRON CONSTRUCTION
- NORYL IMPELLER
- MECHANICAL SEAL
- 1.1 - 4kW OUTPUT
- 32 - 40mm INLET, 25 - 32mm OUTLET
- LIQUID TEMPERATURE UP TO 90°C
- IP44 MOTOR



T-T RL2



	PUMP TYPE	CURVE	INLET x OUTLET " / mm	kW	WEIGHT kg	CODE	PRICE £
01	T-T RL 2 - 200 230V/1Ph	/ A	1 1/4" x 1" / 32mm x 25mm	1.5	25	PW/RL2-200	320
02	T-T RL 2 - 200T 400V/3Ph	/ A	1 1/4" x 1" / 32mm x 25mm	1.5	25	PW/RL2-200T	330
03	T-T RL 2 - 300T 400V/3Ph	/ B	1 1/4" x 1" / 32mm x 25mm	2.2	28	PW/RL2-300T	410
04	T-T RL 2 - 400T 400V/3Ph	/ C	1/2" x 1 1/4" / 40mm x 32mm	3	42	PW/RL2-400T	550
05	T-T RL 2 - 550T 400V/3Ph	/ D	1/2" x 1 1/4" / 40mm x 32mm	4	46	PW/RL2-550T	980

This pump is suitable for pressurised systems.



T-T JET

The T-T Jet is a cost-effective industrial self-priming pump, ideal for domestic use. It permits the transfer / boosting of clear water without abrasive particles or chemically aggressive substances.

Cast iron body, Noryl impeller and stainless steel shaft fitted with a ceramic-graphite-NBR mechanical seal.

APPLICATIONS

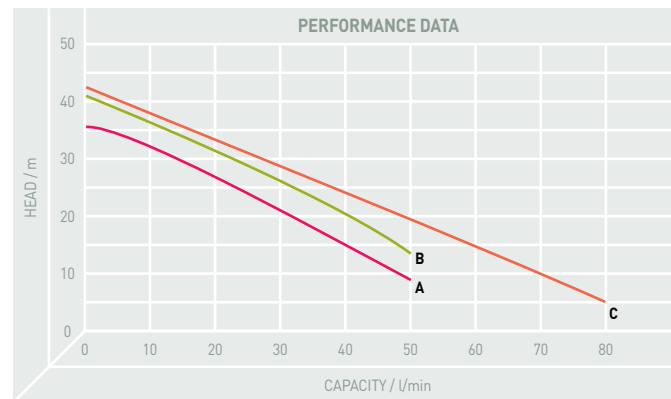
- DOMESTIC & INDUSTRIAL USE
- FEEDING OF PRESSURE SYSTEMS
- TANK FILLING
- BOOSTING

FEATURES

- CAST IRON CONSTRUCTION
- NORYL IMPELLER
- SELF-PRIMING
- MECHANICAL SEAL
- 0.45 - 0.75kW OUTPUT
- 25mm INLET / OUTLET
- LIQUID TEMPERATURE UP TO 40°C
- IP44 MOTOR



T-T JET



PUMP TYPE	CURVE	INLET x OUTLET " / mm	kW	WEIGHT kg	CODE	PRICE £
T-T JET 50 230V/1Ph	/ A	1" / 25mm	0.45	15	PW/JET50	180
T-T JET 75 230V/1Ph	/ B	1" / 25mm	0.6	17.5	PW/JET75	195
T-T JET 100 230V/1Ph	/ C	1" / 25mm	0.75	19	PW/JET100	205



Please see the T-T JET X for the stainless steel version of this pump.

T-T JET X

The T-T Jet X is an economical industrial self-priming, stainless steel pump, ideal for domestic use. It permits the transfer / boosting of clear water without abrasive particles or chemically aggressive substances.

Stainless steel outer casing, Noryl impeller and stainless steel shaft fitted with a ceramic-graphite-NBR mechanical seal.

APPLICATIONS

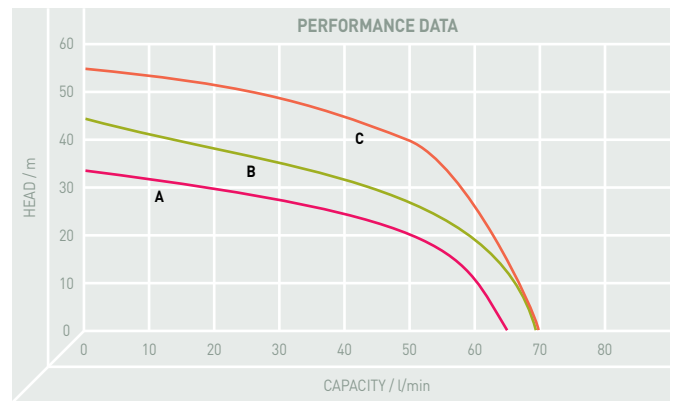
- DOMESTIC & INDUSTRIAL USE
- AGRICULTURE
- FEEDING OF PRESSURE SYSTEMS
- TANK FILLING
- BOOSTING

FEATURES

- STAINLESS STEEL CONSTRUCTION
- NORYL IMPELLER
- SELF-PRIMING
- MECHANICAL SEAL
- 0.6 - 0.9kW OUTPUT
- 25mm INLET / OUTLET
- LIQUID TEMPERATURE UP TO 40°C
- IP44 MOTOR



T-T JET X



	PUMP TYPE	CURVE	INLET x OUTLET " / mm	kW	WEIGHT kg	CODE	PRICE £
01	T-T JET X 80 230V/1Ph	/ A	1" / 25mm	0.6	9	PW/JETX80	170
02	T-T JET X 100 230V/1Ph	/ B	1" / 25mm	0.75	11	PW/JETX100	220
03	T-T JET X 125 230V/1Ph	/ C	1" / 25mm	0.9	13	PW/JETX125	260

T-T MULTI

The T-T Multi is a cost-effective horizontal mounted, multi-stage pump range. It permits the transfer / boosting of clear water without abrasive particles or chemically aggressive substances.

Cast iron and stainless steel body, Noryl impeller and stainless steel shaft fitted with ceramic-graphite-NBR mechanical seal.

APPLICATIONS

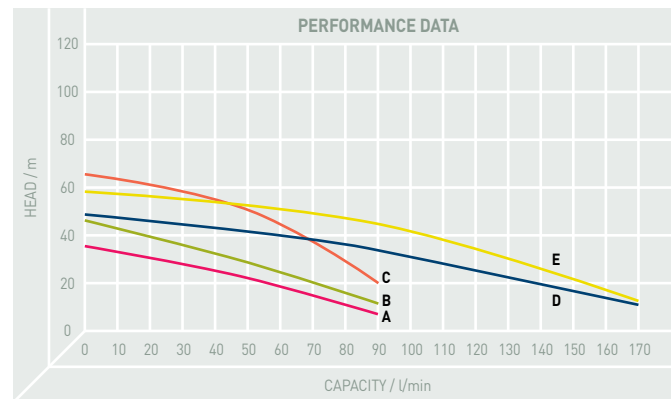
- DOMESTIC & INDUSTRIAL USE
- BOOSTING
- IRRIGATION SYSTEMS
- WATER DISTRIBUTION

FEATURES

- CAST IRON & STAINLESS STEEL CONSTRUCTION
- NORYL IMPELLER
- MECHANICAL SEAL
- 0.55 - 1.8kW OUTPUT
- 25 - 32mm DISCHARGE
- LIQUID TEMPERATURE UP TO 40°C
- IP44 MOTOR



T-T MULTI



PUMP TYPE	CURVE	INLET x OUTLET " / mm	kW	WEIGHT kg	CODE	PRICE £
T-T MULTI 75-2-4 230V/1Ph	/ A	1" x 1" / 25mm x 25mm	0.55	9	PW/MULTI75-2-4	350
T-T MULTI 100-2-5 230V/1Ph	/ B	1" x 1" / 25mm x 25mm	0.75	9	PW/MULTI100-2-5	230
T-T MULTI 150-3-5 230V/1Ph	/ C	1" x 1" / 25mm x 25mm	1.1	14	PW/MULTI150-3-5	240
T-T MULTI 200-3-8 230V/1Ph	/ D	1" x 1" / 25mm x 25mm	1.5	18	PW/MULTI200-3-8	350
T-T MULTI 200-3-8T 400V/3Ph	/ D	1" x 1" / 25mm x 25mm	1.5	18	PW/MULTI200-3-8T	330
T-T MULTI 250-5-5 230V/1Ph	/ E	1 1/4" x 1 1/4" / 32mm x 32mm	1.8	19	PW/MULTI250-5-5	360
T-T MULTI 250-5-5T 400V/3Ph	/ E	1 1/4" x 1 1/4" / 32mm x 32mm	1.8	19	PW/MULTI250-5-5T	340



Please contact us for further advice in selecting the most appropriate pumping solution for your application.

T-T FARM WASH

A range of powerful washdown sets suitable for general farm use and washing. A full kit comprising of a pump mounted on a stainless steel base complete with auto-stop/start, hose, fittings and an adjustable nozzle.

APPLICATIONS

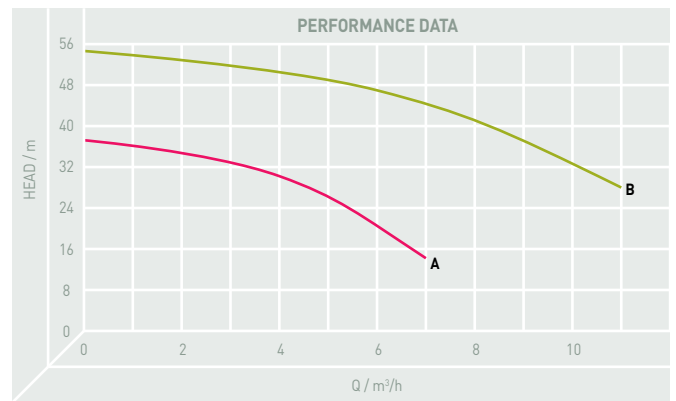
- AGRICULTURAL WASHDOWN
- GENERAL HIGH VOLUME WASHING
- PARLOUR WASHING
- VEHICLE WASHING
- ABATTOIRS

FEATURES

- HEAVY DUTY ROBUST DESIGN
- COMPACT
- HEAVY DUTY STAINLESS STEEL BASE
- AUTOMATIC STOP / START
- DRY RUN PROTECTED
- HEAVY DUTY ADJUSTABLE BRASS NOZZLE
- 25 METRE HIGH QUALITY HOSE
- CUSTOM BUILT VERSIONS AVAILABLE



T-T FARM WASH



MODEL	CURVE	PRESSURE bar	FLOW RATE m³/h	kW	CODE	PRICE £
FARM WASH 230V/IPh	/ A	1.5 - 3.5	2 - 7	0.75	PF/TTPW1	765
FARM WASH 230V/IPh	/ B	3 - 5	5 - 11	2.2	PF/TTPW1	1120



For larger models and bespoke versions please speak to our Sales Team.



JET

The JET is a self priming, single stage clean water pump for transferring and boosting clean water with no abrasive particles.

This pump is designed to pump clean, non-flammable and non-explosive liquid that contains no solid granules and fibres.

APPLICATIONS

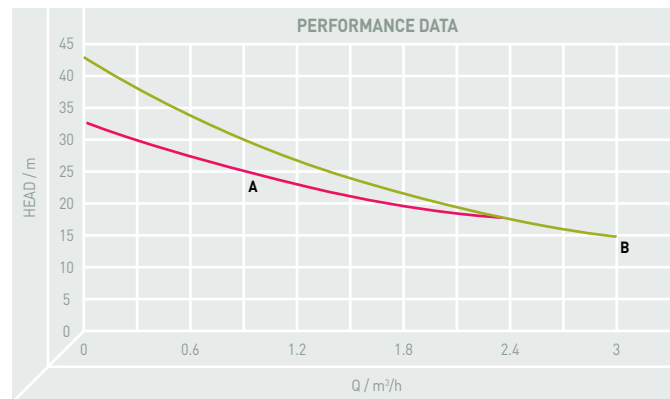
- DOMESTIC WATER SUPPLY
- IRRIGATION
- WATER TRANSFER
- WASHING SYSTEMS
- BOOSTING

FEATURES

- MADE OUT OF HIGH QUALITY ANTI-CORROSIVE MATERIALS: ROBUST 304 STAINLESS STEEL CONSTRUCTION
- COMPACT COAXIAL PUMP DESIGN, FLOAT NECK RING STRUCTURE AND IMPROVED MECHANICAL EFFICIENCY AND VOLUME EFFICIENCY
- TEMPERATURE UP TO 45°C
- SCREWED STRUCTURE, LESS PARTS, EASY TO MAINTAIN AND SERVICE
- HIGH EFFICIENCY MOTOR
- 0.55kW



JET



MODEL	CURVE	MOTOR RATING kW	FLOW RANGE m³/h	SPEED r/min	WEIGHT kg	CODE	PRICE £
JET 35 230V	/ A	0.55	2.4	2900	11.5	PN/JET35/230V	361
JET 35 400V	/ A	0.55	2.4	2900	11.5	PN/JET35/400V	320
JET 45 230V	/ B	0.55	0-3	2900	11.5	PN/JET45/230V	378
JET 45 400V	/ B	0.55	0-3	2900	11.5	PN/JET45/400V	338



This product can be used with our range of Pressure Vessels.

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CHL / CHLF (T) RANGE

A range of horizontal multistage stainless steel centrifugal pumps suitable for transferring clean and non-abrasive liquids.

APPLICATIONS

The CHL and CHLF (T) type pumps are mainly used in the industrial field:

- AIR CONDITIONING SYSTEMS
- COOLING SYSTEMS
- INDUSTRIAL CLEANING
- WATER TREATMENT (WATER PURIFICATION)
- AGRICULTURE
- FERTILISING
- ENVIRONMENTAL APPLICATIONS

FEATURES

- MADE OUT OF HIGH QUALITY ANTI-CORROSIVE MATERIALS: ROBUST 304 STAINLESS STEEL, 316 ON REQUEST
- COMPACT COAXIAL PUMP DESIGN, FLOAT NECK RING STRUCTURE AND IMPROVED MECHANICAL EFFICIENCY AND VOLUME EFFICIENCY
- TEMPERATURE: UP TO 110°C
- SCREWED STRUCTURE, LESS PARTS, EASY TO MAINTAIN AND SERVICE
- HIGH EFFICIENCY MOTOR
- 0.37 - 4.4kW

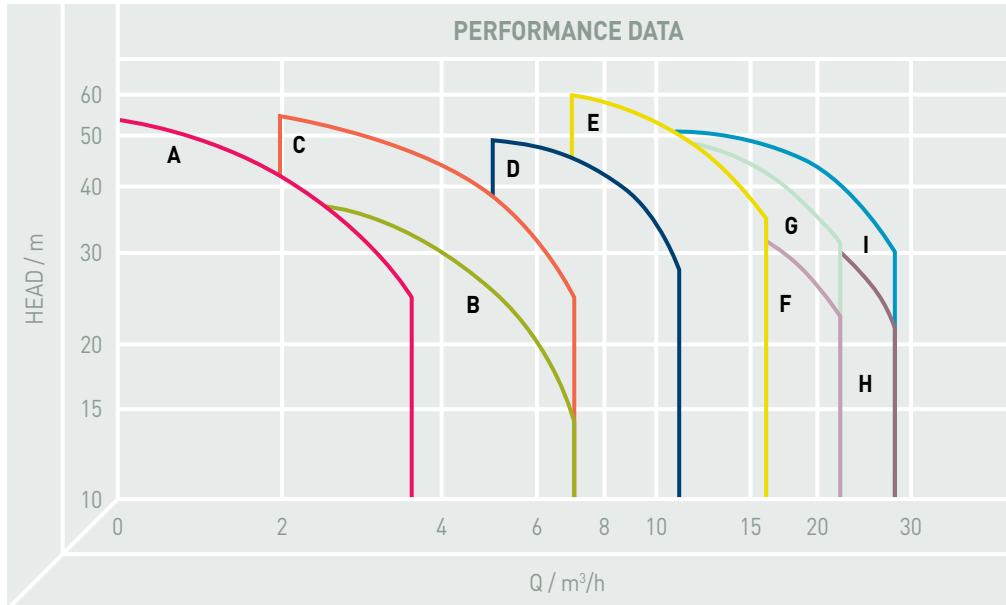


CHL



MODEL	CURVE	INLET	OUTLET	MOTOR POWER kW	FLOW RANGE m ³ /h
CHL / CHLF (T) 2	/ A	G1	G1	0.37 - 0.75	0.5 - 3.5
CHL4	/ B	G1 1/4	G1	0.55 - 0.75	2.7
CHLF(T)4	/ C	G1 1/4	G1	0.55 - 1.1	2.7
CHL8	/ D	G2	G2	0.75 - 2.2	5 - 11
CHLF(T)8	/ D	G1 1/2	G1 1/4	0.75 - 2.2	5 - 11
CHL12	/ E	G2	G2	0.75 - 3.0	7 - 16
CHLF(T)12	/ E	G1 1/2	G1 1/2	0.75 - 3	7 - 16
CHL16	/ F	G2	G2	0.75 - 3.0	8 - 22
CHLF(T)16	/ G	G2	G2	1.1 - 4	8 - 22
CHL20	/ H	G2	G2	0.75 - 4.0	10 - 28
CHLF(T)20	/ I	G2	G2	1.1 - 4.4	10 - 28

CHL / CHLF (T) RANGE



CHLF(T) (Horizontal multistage pumps, stainless steel wet end with a cast iron inlet and outlet)



CHLF (Horizontal multistage pumps, with stainless steel wet end with a cast stainless steel inlet and outlet)



CHL (Horizontal multistage pump, stainless steel construction)

SWB RANGE

The SWB is a stainless steel horizontal single stage clean water pump for transferring and boosting clean water with no abrasive particles.

This pump is designed to pump clean, non-flammable and non-explosive liquid that contains no solid granules and fibres.

APPLICATIONS

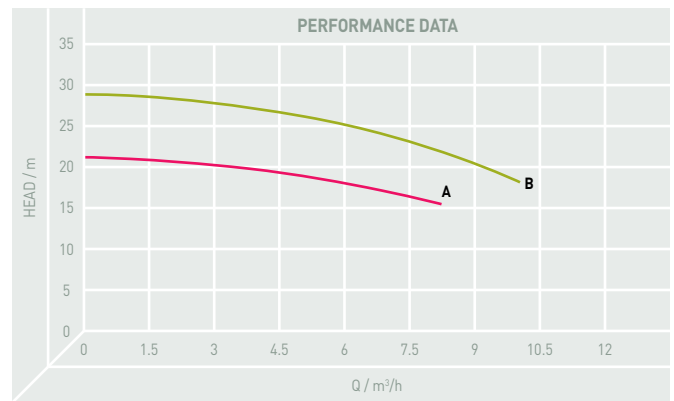
- DOMESTIC WATER SUPPLY
- IRRIGATION
- WATER TRANSFER
- WASHING SYSTEMS
- BOOSTING
- INDUSTRIAL

FEATURES

- 304 STAINLESS STEEL CONSTRUCTION
- COMPACT PUMP DESIGN, FLOAT NECK RING STRUCTURE AND IMPROVED MECHANICAL EFFICIENCY AND VOLUME EFFICIENCY
- TEMPERATURE UP TO 80°C
- SCREWED STRUCTURE, LESS PARTS, EASY TO MAINTAIN AND SERVICE
- HIGH EFFICIENCY MOTOR
- 0.75 - 1.1kW MOTOR



SWB



MODEL	CURVE	MOTOR RATING kW	FLOW RANGE m³/h	SPEED r/min	CODE	PRICE £
SWB 6-18 230V	/ A	0.75	0 - 10	2900	PN/SWB6-18/230V	429
SWB 6-18 400V	/ A	0.75	0 - 10	2900	PN/SWB6-18/400V	387
SWB 6-25 230V	/ B	1.1	0 - 10	2900	PN/SWB6-25/230V	455
SWB 6-25 400V	/ B	1.1	0 - 10	2900	PN/SWB6-25/400V	414

Larger models available, see the ZS Range.



MS

The MS are a range of single stage clean water pumps for transferring and boosting clean water with no abrasive particles.

These are designed to pump clean, non-flammable and non-explosive liquids that contains no solid granules and fibres.

APPLICATIONS

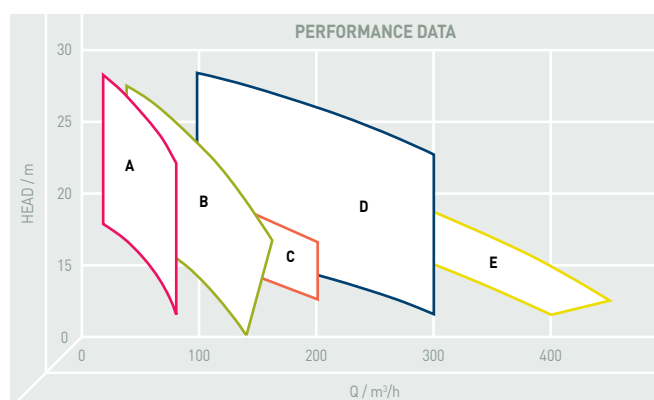
- DOMESTIC WATER SUPPLY
- IRRIGATION
- WATER TRANSFER
- WASHING SYSTEMS
- BOOSTING
- MANUFACTURING PROCESS
- INDUSTRIAL

FEATURES

- MADE OUT OF HIGH QUALITY ANTI-CORROSIVE MATERIALS: ROBUST 304 STAINLESS STEEL CONSTRUCTION
- COMPACT PUMP DESIGN, FLOAT NECK RING STRUCTURE AND IMPROVED MECHANICAL EFFICIENCY AND VOLUME EFFICIENCY
- TEMPERATURE UP TO 85°C
- SCREWED STRUCTURE, LESS PARTS, EASY TO MAINTAIN AND SERVICE
- HIGH EFFICIENCY MOTOR
- 0.37 - 2.2kW



MS



MODEL	CURVE	MOTOR kW	FLOW RANGE m³/h	FREQUENCY Hz	230V PRICE £	400V PRICE £
MS60/0.75	/ A	0.75	1.2 - 4.8	50	385	349
MS60/0.55	/ A	0.55	1.2 - 4.8	50	310	284
MS60/0.37	/ A	0.37	1.2 - 4.8	50	287	260
MS100/1.1	/ B	1.1	2.4 - 9.6	50	458	408
MS100/0.55	/ B	0.55	2.4 - 9.6	50	306	279
MS160/1.1	/ C	1.1	3.6 - 12	50	462	411
MS160/0.75	/ C	0.75	3.6 - 12	50	384	347
MS250/2.2	/ D	2.2	6.0 - 18	50	535	497
MS250/1.5	/ D	2.2	6.0 - 18	50	511	464
MS250/1.1	/ D	2.2	6.0 - 18	50	460	409
MS330/2.2	/ E	2.2	7.2 - 27	50	534	497
MS330/1.5	/ E	2.2	7.2 - 27	50	511	464

MSS 60Hz versions available on request.



For an accurate pump selection please speak to our experienced Sales Team.

SO / SC RANGE

Compact stainless steel horizontal single stage centrifugal pumps.
The SO has a semi-open impeller whilst the SC has a closed impeller.

APPLICATIONS

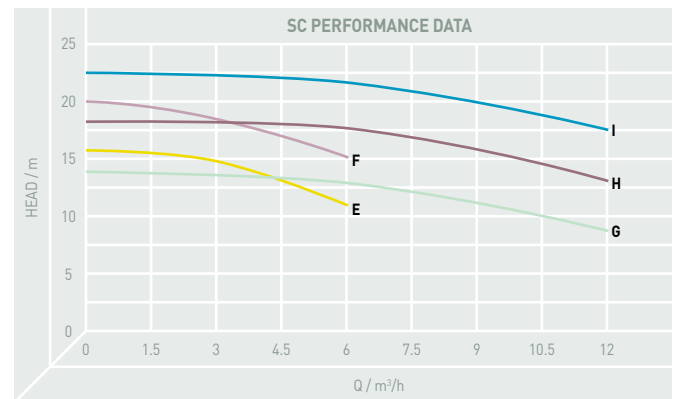
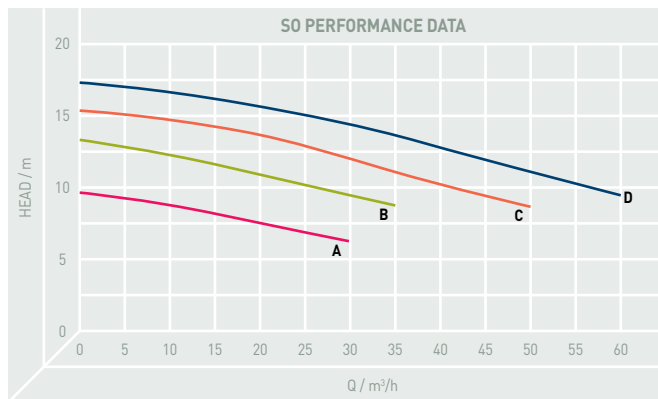
- COOLING, AIR CONDITIONING AND HEATING SYSTEMS
- WATER TREATMENT
- WATER SUPPLY
- WATER DRAINAGE
- PRESSURISATION

FEATURES

- SO OPEN IMPELLER / SC CLOSED IMPELLER
- LIGHT-WEIGHT, COMPACT STRUCTURE
- STAINLESS STEEL PARTS, MAKE THIS PUMP CORROSION PROOF
- TEMPERATURE UP TO 40°C
- 1.1 - 3kW



SO / SC



MODEL	CURVE	MOTOR RATING kW	FLOW RANGE m³/h	SPEED r/min	CODE	PRICE £
S020/1.1 230V	/A	1.1	6.3-9.2	2900	S020/1.1-230V	490
S025/1.5 230V	/B	1.5	9-12.5	2900	S025/1.5-230V	525
S035/2.2 230V	/C	2.2	8.7-15.1	2900	S035/2.2-230V	565
S020/1.1 400V	/A	1.1	6.3-9.2	2900	S020/1.1-400V	465
S025/1.5 400V	/B	1.5	9-12.5	2900	S025/1.5-400V	505
S035/2.2 400V	/C	2.2	8.7-15.1	2900	S035/2.2-400V	538
S040/3.0 400V	/D	3.0	9.5-17	2900	S040/3.0-400V	633
SC15/1.1 230V	/E	1.1	10.9-15.5	2900	SC15/1.1 230V	497
SC15/1.5 230V	/F	1.5	15.2-19.5	2900	SC15/1.5 230V	529
SC25/1.5 230V	/G	1.5	8.7-13.8	2900	SC25/1.5 230V	534
SC25/2.2 230V	/H	2.2	13.1-18.4	2900	SC25/2.2 230V	570
SC15/1.1 400V	/E	1.1	10.9-15.5	2900	SC15/1.1 400V	472
SC15/1.5 400V	/F	1.5	15.2-19.5	2900	SC15/1.5 400V	509
SC25/1.5 400V	/G	1.5	8.7-13.8	2900	SC25/1.5 400V	514
SC25/2.2 400V	/H	2.2	13.1-18.4	2900	SC25/2.2 400V	543
SC25/3.0 400V	/I	3.0	17.6-22.4	2900	SC25/3.0 400V	638

QY RANGE

Stainless steel self-priming gas / liquid pump.

APPLICATIONS

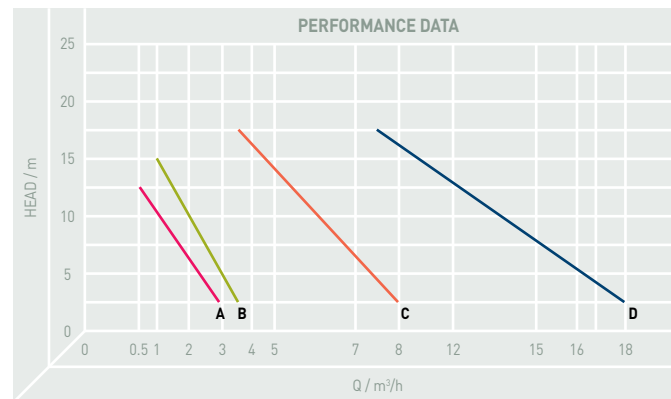
- AIR SUSPENSION TREATING
- LIQUID TRANSFER
- OZONE WATER PREPARING

FEATURES

- LIQUID TEMPERATURE: 15 - 120°C
- SIMPLE DESIGN AND CONSTRUCTION ALLOWING FOR EASY MAINTENANCE
- CAST STAINLESS STEEL WET END
- 0.55 - 7.5kW



QY



MODEL	CURVE	MOTOR RATING kW	FLOW RANGE m³/h	SPEED r/min
20QY-1	/ A	0.55	0.4-2.8	2900
20QYB-1	/ A	0.55	0.4-2.8	2900
25QY	/ B	1.1	1-3.5	2900
25QYB-2	/ B	1.1	1-3.5	2900
40QY-6	/ C	3	3.5-8	2900
40QTB-6	/ C	4	3.5-8	2900
50QY-12	/ D	5.5	7.5-18	2900
50QYB-12	/ D	7.5	7.5-18	2900
20QYL-1	/ A	0.55	0.4-2.8	2900
20QYLB-1	/ A	0.55	0.4-2.8	2900
25QYL-2	/ B	1.1	1-3.5	2900
25QYLB-2	/ B	1.1	1-3.5	2900
40QYL-6	/ C	4	3.5-8	2900
40QYLB-6	/ C	4	3.5-8	2900
50QYL-12	/ D	7.5	7.5-18	2900
50QYLB-12	/ D	7.5	7.5-18	2900

ZS RANGE

The ZS stainless steel horizontal single-stage centrifugal pump is suitable for a wide number of applications. It can transmit various mediums including water or industrial liquid and is suitable for different temperatures, flow rates and a range of pressures.

APPLICATIONS

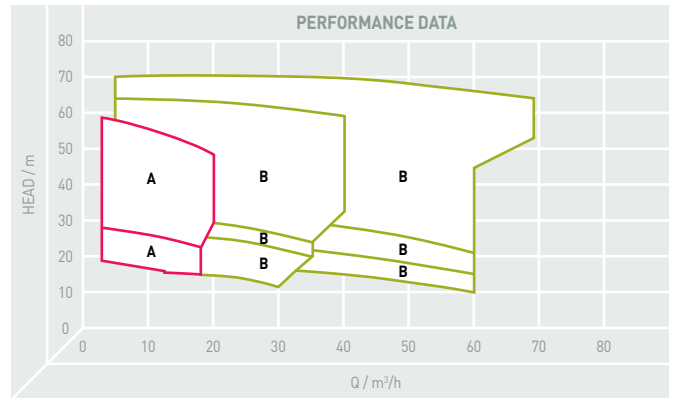
- WATER SUPPLY
- INDUSTRIAL PRESSURISATION
- TRANSPORTATION OF INDUSTRIAL LIQUID
- WATER TREATMENT
- IRRIGATION
- PROCESS MANUFACTURING

FEATURES

- HEAVY DUTY DESIGN
- 304 STAINLESS STEEL CONSTRUCTION
- HIGH EFFICIENCY MOTOR
- LOW MAINTENANCE
- 1.1 - 18.5kW MOTOR
- TEMPERATURE UP TO 100°C
- FLANGED INLET / OUTLET



ZS



MODEL	CURVE	FLOW RANGE m ³ /h	HEAD m	SPEED r/min	FREQUENCY Hz	MOTOR kW
ZS50	/ A	6.3 - 12.5	18 - 54	2900	50	1.1 - 5.5
ZS65	/ B	25 - 50	13 - 68	2900 - 2950	50	1.5 - 18.5

Full range of valves available, please speak to our Sales Team for further information.



NISO

The Niso pump is a heavy duty, end suction centrifugal pump, designed for industrial applications. Available in bare shaft and motor mounted versions.

Suitable for use with clean, non-corrosive, non-flammable or non-explosive liquid without abrasives or fibre.

APPLICATIONS

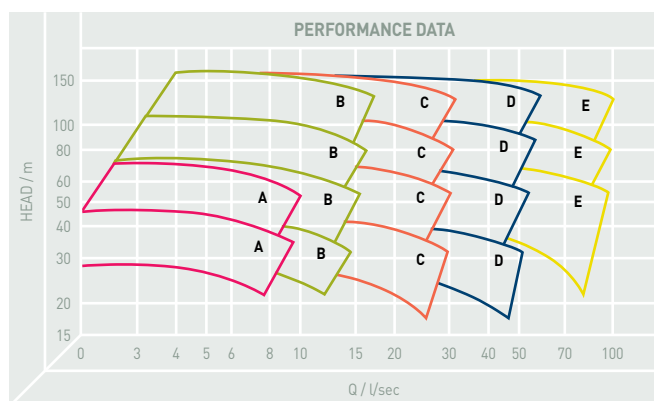
- WATER SUPPLY SYSTEMS
- HEAT, AIR CONDITIONING SYSTEMS
- BOOSTER, CONSTANT PRESSURE WATER SUPPLY
- SPLITTING SYSTEMS
- IRRIGATING, FARMING
- INDUSTRY COOLING, HEATER CIRCULATION SYSTEMS
- INDUSTRY TRANSFERRING

FEATURES

- BACK PULL OUT DESIGN, WITHOUT HAVING TO DISTURB THE PUMP BODY AND PIPELINES WHEN SERVICING
- ALL THE MODELS ONLY USE 4 KINDS OF PUMP SHAFTS AND BEARING COVERS
- MAX TEMPERATURE 110°C
- EASY TO MAINTAIN
- 3 - 160kW
- HIGH EFFICIENCY MOTOR
- HEAVY DUTY DESIGN, CAST IRON BODY
- CAST IRON IMPELLER



NISO



MODEL	CURVE	FLOW RANGE m³/h	HEAD m	SPEED r/min	FREQUENCY Hz	MOTOR kW
NISO 50	/ A	36	28 - 74	3 - 11	2900 - 2950	3 - 11
NISO 65	/ B	61	28 - 165	4 - 45	2900 - 2950	4 - 45
NISO 80	/ C	108	22 - 152	5.5 - 75	2900 - 2950	11 - 75
NISO 100	/ D	216	23 - 148	11 - 110	2950	11 - 110
NISO 125	/ E	360	34 - 144	30 - 160	2950	30 - 160

Performance data is based on clean water.
4 pole options available on request. Also available as a bare shaft option.



Stainless steel impeller available on request.

CDL / CDLF

A comprehensive range of electrically driven stainless steel vertical multi-stage pumps designed to transfer clean and non-abrasive liquids over a wide range of discharge flow rates and pressures. The inlet and outlet connections are positioned inline and a variety of connections are available on request.

This multifunctional product can be used in a diverse range of applications from domestic water pressurisation to transfer of industrial liquids. The CDLF (all stainless steel construction) can be used for the transfer of corrosive liquids, the CDL (stainless steel construction with cast iron base and connections) is designed for cleaner less corrosive liquids.

APPLICATIONS

- COOLING WATER SYSTEMS
- MUNICIPAL WATER SUPPLY AND BOOSTING
- DOMESTIC WATER SUPPLY
- IRRIGATION
- GENERAL INDUSTRIAL SERVICES
- WASHING PLANTS
- BOILER FEED AND CONDENSATE SYSTEM
- WATER TREATMENT

FEATURES

- CAPACITY: UP TO 240m³/h
- HEAD: UP TO 305m
- TEMPERATURE: UP TO 120°C
- SPEED: 2900RPM OR 3500RPM
- UP TO 110kW MOTOR
- STANDARD MOTOR
- CARTRIDGE MECHANICAL SEAL DESIGN

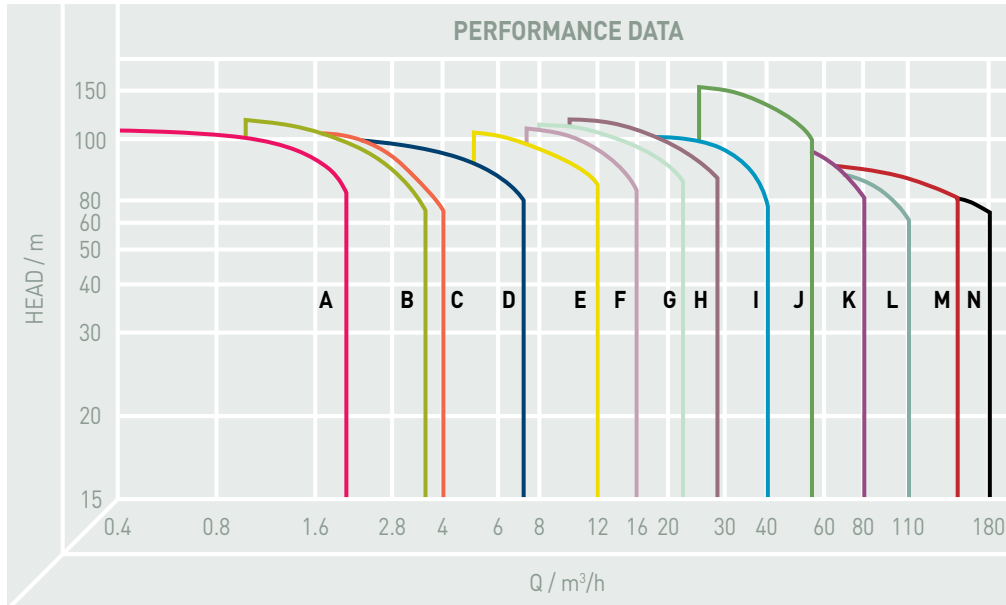


MODEL	CURVE	MAX PRESSURE bar	MOTOR kW	MAX EFFICIENCY %	DIN FLANGE
CDL / CDLF1	/A	21	0.37 - 2.2	44	DN25
CDL / CDLF2	/B	23	0.37 - 3	46	DN25
CDL / CDLF3	/C	22	0.37 - 3	54	DN25
CDL / CDL4	/D	21	0.37 - 4	57	DN32
CDL / CDL8	/E	21	0.75 - 7.5	62	DN40
CDL / CDL12	/F	22	1.5 - 11	63	DN50
CDL / CDL16	/G	22	2.2 - 1.5	66	DN50
CDL / CDL20	/H	23	1.1 - 18.5	69	DN50
CDL / CDL32	/I	26	1.5 - 30	73	DN65
CDL / CDL42	/J	30	3.0 - 45	75	DN80
CDL / CDL65	/K	22	4.0 - 45	76	DN100
CDL / CDL85	/L	17	5.5 - 45	77	DN100
CDL / CDL120	/M	16	11 - 75	74	DN125
CDL / CDL150	/N	16	11 - 75	73	DN125

For applications where corrosive liquids may or will enter the pumping system, please contact our Sales Team to ensure that the pump materials are compatible with liquids to be pumped.



CDL / CDLF



A selection of alternative bases are available - please speak to our sales team for further information / advice.



CDL (Vertical multistage pump, stainless steel construction and cast iron base / connections)



CDLF (Vertical multistage pump, stainless steel construction and base / connections)



PN FLANGED



OVAL TWO-PIN



THREADED BASE



VICTAULIC BASE

- 01
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For applications where corrosive liquids may or will enter the pumping system, please contact our Sales Team to ensure that the pump materials are compatible with liquids to be pumped.



High Performance, Low Energy Submersible Sewage Pumps

Efficiency, Reliability, Choice

- 4 to 200kW motors, designed to reach the Premium Efficiency Class IE3 according to the CEI EN 60034/30 regulations
- 2, 4, 6 and 8 pole motors
- DN80 to DN400 discharge ports
- Vortex impellers with full free passage and channels with anti-blockage systems



Please refer to our Uniqua literature or website for full information.

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BOOSTER SETS

The Booster Sets are made up of a Jet self-priming stainless steel pump, connected to a 24 litre tank with a high quality, 1" diameter flexible pipe with 90° elbow bend. The pumps' start / stop operation is regulated by a pressure switch; pressure can be regulated between 1.4 and 2.8 bar.

APPLICATIONS

- DOMESTIC & INDUSTRIAL USE
- FEEDING OF PRESSURE SYSTEMS
- WATER TRANSFER BOOSTING
- IRRIGATION

FEATURES

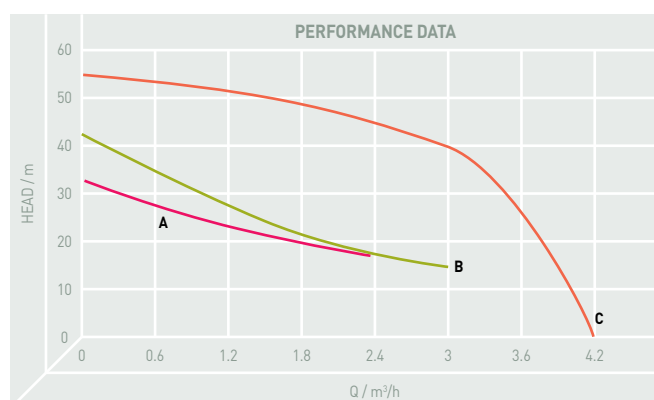
- AUTOMATIC START/STOP
- ADJUSTABLE PRESSURE SETTING
- PUMP CONSTRUCTED IN STAINLESS STEEL
- TANK HOLDS 24 LITRES WITH EDPM MEMBRANE
- 0.55 - 0.9kW



BOOSTER SETS - T-T JET X 125S



BOOSTER SET - T-T JET 35/45



PUMP TYPE	CURVE	INLET x OUTLET " / mm	kW	WEIGHT kg	CODE	PRICE £
BOOSTER SET - TT JET 35 AUTO painted steel tank 230V/1Ph	/ A	1" x 1" / 25mm x 25mm	0.55	13	PN/JET35AUTO/1	330
BOOSTER SET - TT JET 45 AUTO painted steel tank 230V/1Ph	/ B	1" x 1" / 25mm x 25mm	0.55	13	PN/JET45AUTO/1	340
BOOSTER SET - TT JET X 125S with stainless steel tank 230V/1Ph	/ C	1" x 1" / 25mm x 25mm	0.9	13	PW/A-JX125/24X	520
BOOSTER SET - TT JET X 125S with painted steel tank 230V/1Ph	/ C	1" x 1" / 25mm x 25mm	0.9	13	PW/A-JX125/24P	420



Have you seen our Hi-Dro® Boost range of larger booster sets?

A comprehensive range of fixed and variable speed multiple clean water booster sets, designed and manufactured to provide both the required flow and water pressure for your application.

Designed for transfer and pressure boosting of hot and cold water systems. Maintains and regulates constant water pressure throughout your application.

Controlled via either mechanical pressure switches for fixed speed applications, or the 'Vasco' variable speed control drive to maintain a constant pressure level during varying flow rate demand.

APPLICATIONS

- COOLING WATER SYSTEMS
- MUNICIPAL WATER SUPPLY AND BOOSTING
- DOMESTIC WATER SUPPLY
- IRRIGATION
- GENERAL INDUSTRIAL SERVICES
- WASHING PLANTS
- BOILER FEED AND CONDENSATE SYSTEM
- WATER TREATMENT

DA (DUTY ASSIST) / DAS (DUTY ASSIST STANDBY)

- POWER: FROM 0.37 - 7.5kW
- MANIFOLD: 2" / 50mm - 6" / 150mm
- DELIVERY: UP TO 160m³/h
- PRESSURE: UP TO 24 BAR
- WATER TEMPERATURE: UP TO 120°C

DAA (DUTY ASSIST ASSIST) / DAAS (DUTY ASSIST ASSIST STANDBY)

- POWER: FROM 0.37 - 7.5kW
- MANIFOLD: 2" / 50mm - 8" / 200mm
- DELIVERY: UP TO 240m³/h
- PRESSURE: UP TO 24 BAR
- WATER TEMPERATURE: UP TO 120°C

OPTIONS

- VARIABLE SPEED CONTROL WITH 'VASCO' UNITS
- FIXED SPEED
- JOCKEY PUMP FACILITIES

FEATURES

- MANUFACTURED USING THE LATEST PUMP TECHNOLOGY FROM THE 'CNP' RANGE OF CLEAN WATER PUMPS
- ASSEMBLED USING STAINLESS STEEL SUCTION AND DELIVERY MANIFOLDS
- WRAS COMPLIANT COMPONENTS
- FIXED AND VARIABLE SPEED OPTIONS ARE AVAILABLE FOR EFFICIENT OPERATION
- HEADER TANKS ARE AVAILABLE ON REQUEST
- QUALITY ASSURED CLEAN WATER BOOSTER SETS



HI-DRO BOOST



**FIXED SPEED BOOSTER SET WITH
JOCKEY PUMP**

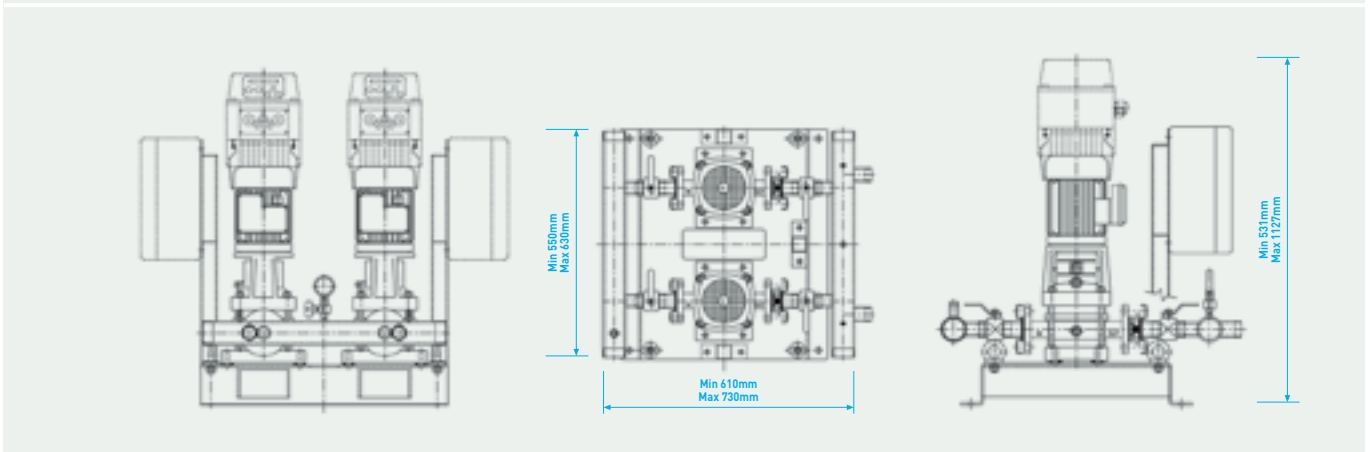


TRIPLE BOOSTER SET

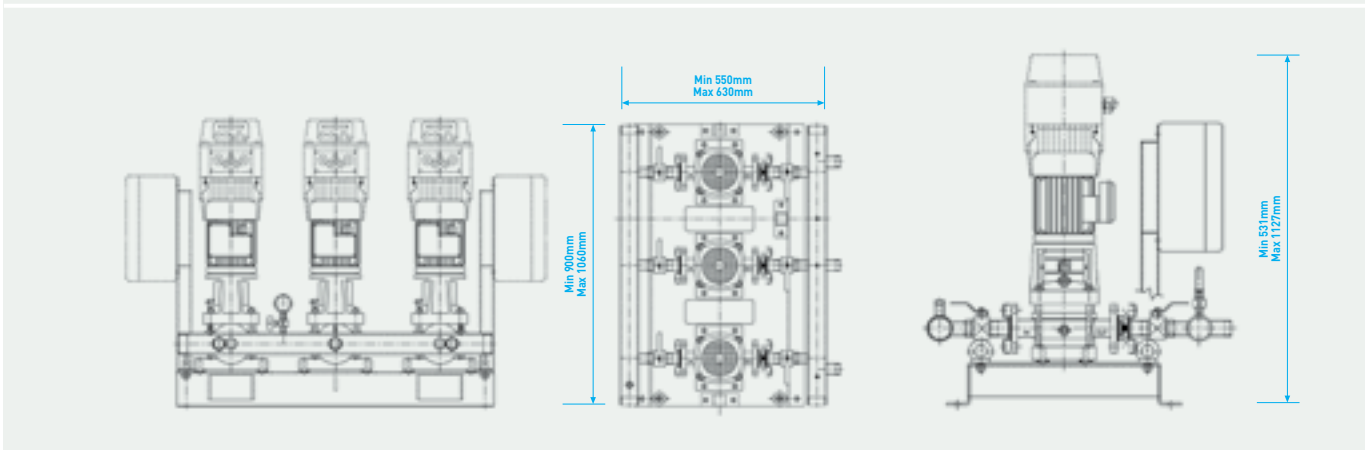


**QUADRUPLE BOOSTER SET WITH
JOCKEY PUMP**

TYPICAL DIMENSIONAL DRAWING OF DUAL SYSTEM



TYPICAL DIMENSIONAL DRAWING OF TRIPLE SYSTEM



B

Bespoke and larger assemblies available, please speak to our team for further information.

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RC500 / RC900

The RC500 / RC900 multistage submersible pump is ideal for the transfer and pressurisation of clean water.

Suitable for domestic and industrial use. The pump has a stainless steel construction and impeller with Noryl diffuser. Available with manual or automatic operation with adjustable float switch.

APPLICATIONS

- BOOSTING
- DOMESTIC & INDUSTRIAL USE
- AGRICULTURE & FARMS
- IRRIGATION
- WATER DISTRIBUTION
- RAINWATER HARVESTING SYSTEMS

FEATURES

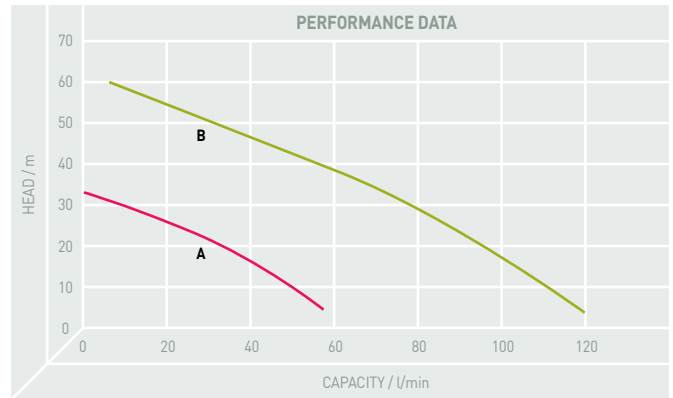
- WELLS UP TO 50m DEEP
- STAINLESS STEEL CONSTRUCTION & IMPELLER
- NORYL DIFFUSER
- LIQUID TEMPERATURE UP TO 40°C
- MECHANICAL SEAL WITHIN OIL BATH
- 0.25 - 0.9kW



RC500

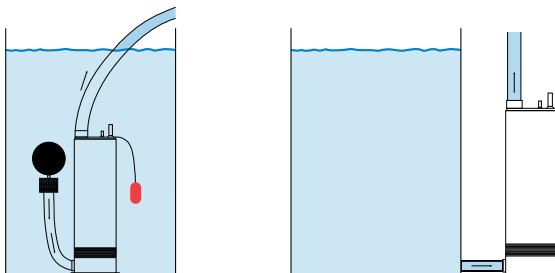


RC900



PUMP TYPE	CURVE	INLET x OUTLET " / mm	kW	WEIGHT kg	CODE	PRICE £
RC500 230V/1Ph	/ A	1" / 25mm	0.25	12	PM/RC500/1	350
RC900 230V/1Ph	/ B	1 1/4" / 32mm	0.9	13	PM/RC900/1	550
RC900 400V/3Ph	/ B	1 1/4" / 32mm	0.9	13	PM/RC900/3	550
RC FLOATING SUCTION KIT	-	1 1/4" / 32mm	-	2.9	PMS/FSKIT1.5M	100

RC floating kit contains strainer, non-return valve, float, suction hose (1.5m) and fittings (only suitable for RC900).



RC900 ONLY



STRAINER & BALL

Also used in our Rain Water Harvesting Systems - refer to our RainCycle literature or website for further information.



T-T WELL

The T-T Well is a cost-effective well pump for the transfer of clear water. This range is ideal for domestic and agricultural use with a max. sand presence of 0.3%. Stainless steel body and motor casing, Noryl impeller and stainless steel shaft fitted with a twin silicon carbide mechanical seal.

APPLICATIONS

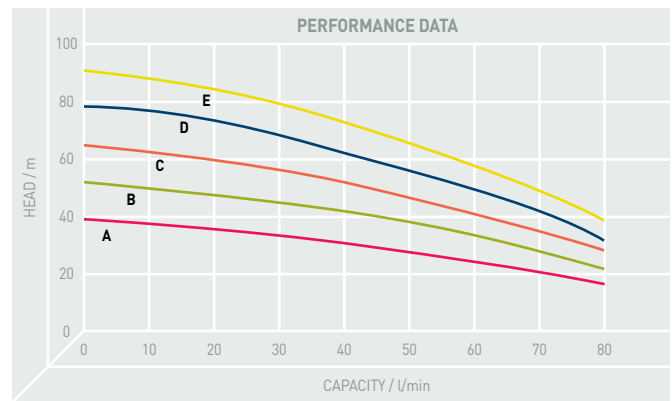
- BOOSTING
- DOMESTIC & INDUSTRIAL USE
- AGRICULTURE & FARMS
- IRRIGATION
- WELLS UP TO 50m
- WATER DISTRIBUTION

FEATURES

- STAINLESS STEEL CONSTRUCTION
- NORYL IMPELLER & DIFFUSER
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 0.75 - 1.4kW OUTPUT
- 32mm DISCHARGE
- SUBMERSION DEPTH MAX. 50m
- LIQUID TEMPERATURE UP TO 40°C
- IP68 MOTOR
- 0.5 - 1.2kW



T-T WELL



PUMP TYPE	CURVE	OUTLET "/mm	DIAMETER mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
T-T WELL 100G 230V/1Ph	/ A	1 1/4" / 32mm	130	15	0.5	17	PW/WELL100G	340
T-T WELL 125G 230V/1Ph	/ B	1 1/4" / 32mm	130	15	0.6	19	PW/WELL125G	370
T-T WELL 150G 230V/1Ph	/ C	1 1/4" / 32mm	130	15	0.8	21	PW/WELL150G	390
T-T WELL 175G 230V/1Ph	/ D	1 1/4" / 32mm	130	15	1.0	24	PW/WELL175G	425
T-T WELL 200G 230V/1Ph	/ E	1 1/4" / 32mm	130	15	1.2	24	PW/WELL200G	445

Note: Complete with float switch.



Ideal for supplying drinking water to livestock.

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T-T BOOSTER

The T-T Booster is a cost-effective 5" submersible borehole pump with peripheral impeller. It permits the drainage of clear water without abrasive particles or chemically aggressive substances.

Stainless steel body, brass impeller and stainless steel shaft fitted with ceramic-graphite-NBR mechanical seal.

APPLICATIONS

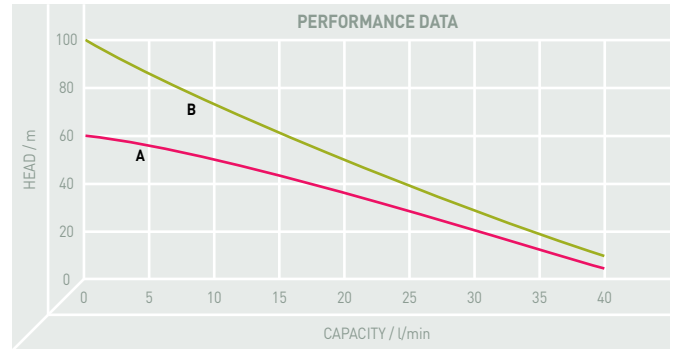
- DOMESTIC USE
- IRRIGATION
- DISTRIBUTION OF WATER
- BOOSTING
- AGRICULTURAL WATER SUPPLY
- INDUSTRIAL PROCESS SUPPLY

FEATURES

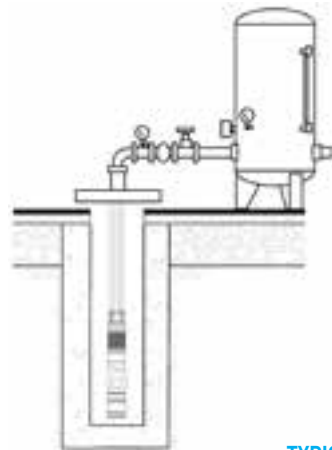
- BRASS AND STAINLESS STEEL CONSTRUCTION
- BRASS IMPELLER
- MECHANICAL SEAL
- 0.75 - 1.1kW OUTPUT
- 25mm DISCHARGE
- DEPTH OF SUBMERSION MAX. 20m
- LIQUID TEMPERATURE UP TO 35°C
- IP68 MOTOR



T-T BOOSTER WITH STARTER SET (included)



	PUMP TYPE	CURVE	OUTLET " / mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
01	T-T BOOSTER 100 230V/1Ph	/ A	1" / 25mm	15	0.75	14	PW/BOOSTER100	290
02	T-T BOOSTER 150 230V/1Ph	/ B	1" / 25mm	25	1.1	15	PW/BOOSTER150	340



TYPICAL BOREHOLE PUMP ILLUSTRATION

Please refer to pages 46 - 47 for borehole arrangement and selection questionnaire.



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SJ RANGE

A full range of stainless steel borehole submersible pumps from 4", 6" and 8" for pumping clean non-corrosive liquids, which are free of sediment and abrasives.

APPLICATIONS

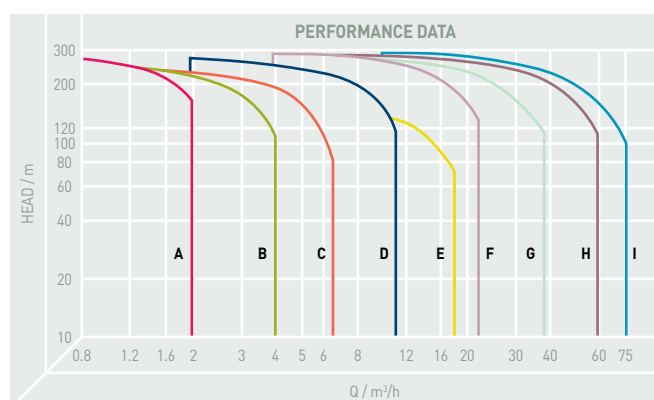
- BOOSTING FOR CLEAN WATER
- DEWATERING
- BORE HOLE
- WATER EXTRACTION

FEATURES

- HEAVY DUTY DESIGN
- 304 STAINLESS STEEL CONSTRUCTION
- HIGH EFFICIENCY MOTOR
- LOW MAINTENANCE - EASY TO SERVICE
- 0.37 - 37kW
- MAXIMUM LIQUID TEMP 35°C
- MAXIMUM WORKING PRESSURE 38 BARS
- PH 6.5 - 8.5
- MAXIMUM LIQUID DEPTH 50m



SJ



COMING SOON - SJ PLASTIC IMPELLER RANGE

MODEL	CURVE	PUMP DIAMETER mm	FLOW RANGE m³/h	MAX PRESSURE bar	MOTOR POWER kW	MAX EFFICIENCY %	PIPE SCREW JOINT
SJ1	/ A	100	0.2 - 2	28	0.37 - 2.2	40	RP 1/4
SJ3	/ B	100	0.8 - 4	25	0.37 - 3	56	RP 1/4
SJ5	/ C	100	1 - 6.5	24	0.37 - 4	59	RP 1/2
SJ8	/ D	100	2 - 11	27	0.75 - 7.5	60	RP 2
SJ12	/ E	100	3 - 18	16	1.5 - 7.5	60	RP 2
SJ17	/ F	96 - 143	4 - 22	27	0.55 - 15	73	RP 2 1/2
SJ30	/ G	96 - 143	5 - 38	28	1.1 - 22	74	RP 3
SJ42	/ H	96 - 143	5 - 60	28	1.1 - 37	75	RP 3
SJ60	/ I	96 - 143	10 - 75	29	2.2 - 37	79	RP 4



Please refer to pages 46 - 47 for borehole arrangement and selection questionnaire.

4HS RANGE

A range of 4" electric multistage submersible borehole pumps specifically designed to operate at high electrical frequencies resulting in expansive duty coverage from each model.

Supplied as a package consisting of pump, surface control module and pressure transducer, the unit requires minimal parameter set up on site, before 'self tuning' to optimise its performance and duty point. Using frequency control enables the system to maintain pressure with respect to demand, therefore reducing energy costs and extending pump life.

APPLICATIONS

- BOOSTING
- PRESSURISATION
- IRRIGATION
- WATER SUPPLY
- HIGH TEMPERATURE WATER PUMPING
- WATER EXTRACTION

FEATURES

- STAINLESS STEEL CONSTRUCTION
- RESIN ENCAPSULATED STATOR
- BUILT-IN INTEGRATED INVERTER MODULE
- VARIABLE SPEED PERFORMANCE - COVERING EXPANSIVE DUTY REQUIREMENTS
- EASY TO COMMISSION



VASCO



4HS PUMP

PUMP TYPE	CURVE	kW	WEIGHT kg	CODE	PRICE £
4HS - 02/04	/ A	2.1	22	PNA/4HS-02/04	1299
4HS - 02/08	/ B	3.5	25	PNA/4HS-02/08	1699
4HS - 04/03	/ C	2.4	22	PNA/4HS-04/03	1265
4HS - 04/05	/ D	3.5	24	PNA/4HS-04/05	1599
4HS - 06/02	/ E	2.2	22	PNA/4HS-06/02	1235
4HS - 06/04	/ F	3.8	24	PNA/4HS-06/04	1565

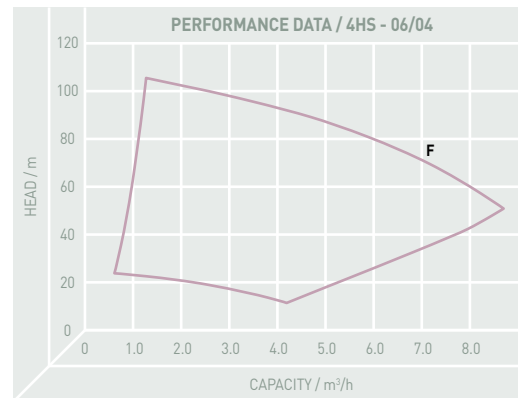
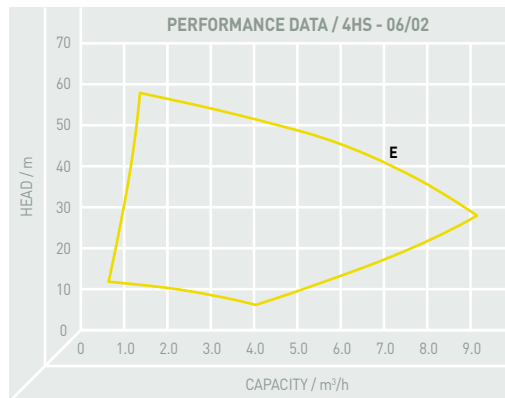
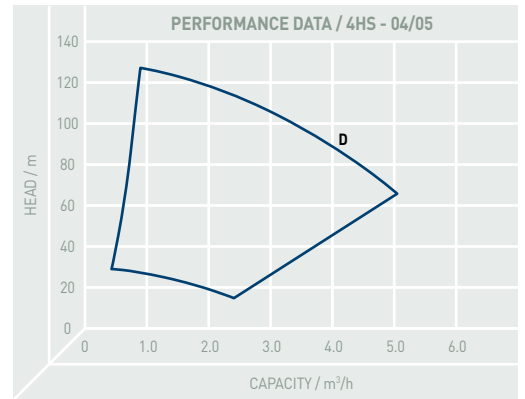
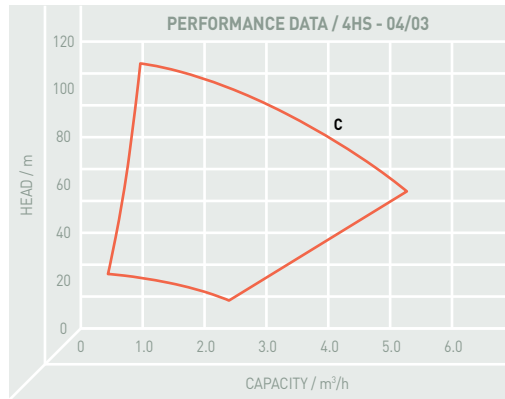
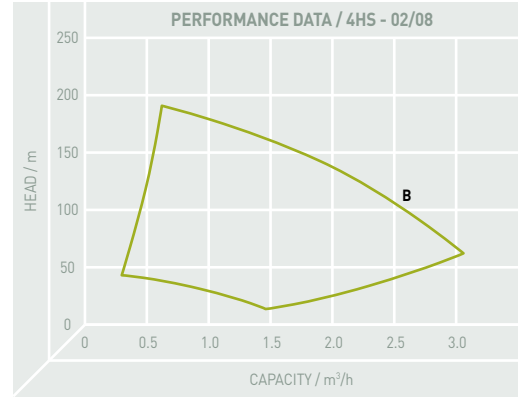
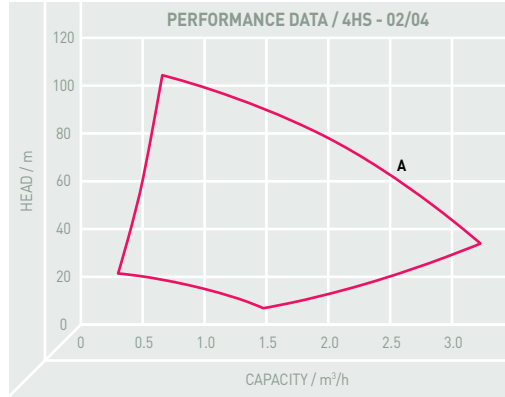


SUPPLIED AS A COMPLETE SET READY FOR INSTALLATION

Please refer to pages 46 - 47 for borehole arrangement and selection questionnaire.



4HS RANGE



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B

Please refer to pages 46 - 47 for borehole arrangement and selection questionnaire.

EXPANSION TANKS



EXPANSION TANK



COUNTER FLANGES

Designed to compensate volume and pressure changes caused by temperature changes in closed water circuits.

APPLICATIONS

- WATER BOOSTER SYSTEMS
- HOT WATER CIRCUITS UP TO 100°C
- PRESSURISING SURGE TANKS
- PRESSURE MAINTENANCE

FEATURES

- INTERCHANGEABLE BLADDER
- 5 & 10 BAR MAXIMUM WORKING PRESSURE
- 1.5 & 4 BAR STANDARD PRE-LOADING PRESSURE
- WORKING TEMPERATURE -10°C/+100°C & -10°C/+70°C (2000l +)
- RED EXTERNAL FINISH COLOUR
- EPDM RUBBER MEMBRANE

Available with counter flanges lined with polypropylene. This device avoids the contact between water and the counter flange, granting a complete protection from corrosion and acts as a 'WATER FLOW DEFLECTOR'. A simple and innovative solution that reduces the installation maintenance and grants duration and reliability.

	PUMP TYPE	HEIGHT mm	DIAMETER mm	CONNECTION	CODE	PRICE £
VERTICAL	PI/R2	189	160	3/4"	PI/R2	32
	PI/R5	296	160	3/4"	PI/R5	33
	PI/R8	310	200	3/4"	PI/R8	37
	PI/R12	295	280	3/4"	PI/R12	38
	PI/R18	465	280	3/4"	PI/R18	41
	PI/R24	492	280	3/4"	PI/R24	45
	PI/R35	415	365	3/4"	PI/R35	90
	PI/R50	545	365	3/4"	PI/R50	91
	PI/RV35	450	365	3/4"	PI/RV35	107
	PI/RV50	564	365	3/4"	PI/RV50	109
	PI/RV60	668	365	3/4"	PI/RV60	140
	PI/RV80	687	410	1"	PI/RV80	200
	PI/RV100	663	495	1"	PI/RV100	258
	PI/RV120	733	495	1"	PI/RV120	340
	PI/RV150	795	550	1"	PI/RV150	339
	PI/RV200	1020	600	1"	PI/RV200	410
	PI/RV250	986	650	1"	PI/RV250	532
	PI/RV300	1168	650	1"	PI/RV300	642
	PI/RV400	1093	750	1 1/4"	PI/RV400	870
	PI/RV500	1347	750	1 1/4"	PI/RV500	1060
PI/RV600	1470	750	1 1/4"	PI/RV600	1330	
PI/RV750	1820	800	2"	PI/RV750	1500	
PI/RV1000	2250	800	2"	PI/RV1000	2800	
PI/RV1500	2400	960	2"	PI/RV1500	3500	
PI/RV2000	2500	1100	2"	PI/RV2000	5800	
PI/RV3000	2750	1200	DN65	PI/RV3000	8600	
PI/RV4000	3220	1450	DN80	PI/RV4000	12000	
PI/RV5000	3620	1450	DN80	PI/RV5000	15800	

PRESSURE VESSELS



Designed to maintain a predefined liquid pressure, regardless of boost pressure. Horizontal and vertical options available.

APPLICATIONS

- WATER BOOSTER SYSTEMS
- HOT WATER CIRCUITS UP TO 100°C
- PRESSURISING SURGE TANKS
- PRESSURE MAINTENANCE

FEATURES

- INTERCHANGEABLE BLADDER
- 10 BAR MAXIMUM WORKING PRESSURE
- 1.5 & 2 BAR STANDARD PRE-LOADING PRESSURE
- WORKING TEMPERATURE -10°C/+100°C
- BLUE EXTERNAL FINISH COLOUR
- EPDM RUBBER MEMBRANE

Available with counter flanges lined with polypropylene. This device avoids the contact between water and the counter flange, granting a complete protection from corrosion and acts as a 'WATER FLOW DEFLECTOR'. A simple and innovative solution that reduces the installation maintenance and grants duration and reliability.



PRESSURE VESSEL



COUNTER FLANGES

	PUMP TYPE	HEIGHT mm	DIAMETER mm	LENGTH mm	CONNECTION	CODE	PRICE £
VERTICAL	PI/AV2/10BAR	189	160	-	3/4"	PI/AV2/10BAR	28
	PI/AV5/10BAR	304	160	-	3/4"	PI/AV5/10BAR	40
	PI/AV8/10BAR	316	200	-	3/4"	PI/AV8/10BAR	46
	PI/AV12/10BAR	295	280	-	3/4"	PI/AV12/10BAR	50
	PI/AV18/10BAR	428	280	-	3/4"	PI/AV18/10BAR	61
	PI/AV24/10BAR	489	280	-	1"	PI/AV24/10BAR	65
	PI/AV35/10BAR	450	365	-	1"	PI/AV35/10BAR	97
	PI/AV24/16BAR	335	350	-	1"	PI/AV24/16BAR	65
	PI/AV50/10BAR	656	365	-	1"	PI/AV50/10BAR	129
	PI/AV60/10BAR	761	365	-	1"	PI/AV60/10BAR	165
	PI/AV80/10BAR	790	410	-	1"	PI/AV80/10BAR	185
	PI/AV100/16BAR	774	495	-	1"	PI/AV100/16BAR	237
	PI/AV150/10BAR	927	550	-	1"	PI/AV150/10BAR	347
	PI/AV200/10BAR	1020	600	-	1 1/4"	PI/AV200/10BAR	422
	PI/AV300/10BAR	1243	650	-	1 1/4"	PI/AV300/10BAR	505
PI/AV500/10BAR	1493	750	-	1 1/4"	PI/AV500/10BAR	1100	
HORIZONTAL	PI/AO18/10BAR	305	465	280	1"	PI/AO18/10BAR	62
	PI/AO24/10BAR	300	492	280	1"	PI/AO24/10BAR	65
	PI/AO35/10BAR	376	450	365	1"	PI/AO35/10BAR	109
	PI/AO50/10BAR	380	570	365	1"	PI/AO50/10BAR	152
	PI/AO60/10BAR	385	675	365	1"	PI/AO60/10BAR	185
	PI/AO80/10BAR	430	677	410	1"	PI/AO80/10BAR	217
	PI/AO100/10BAR	520	685	495	1"	PI/AO100/10BAR	287
	PI/AO150/10BAR	578	820	550	1"	PI/AO150/10BAR	417
	PI/AO200/10BAR	628	915	600	1 1/4"	PI/AO200/10BAR	540
	PI/AO300/10BAR	680	1082	650	1 1/4"	PI/AO300/10BAR	660



16 bar versions available - contact us for more information.

PRESSURE VESSELS

STAINLESS STEEL

Designed to maintain a predefined liquid pressure, regardless of boost pressure. Horizontal and vertical options available.

APPLICATIONS

- WATER BOOSTER SYSTEMS
- HOT WATER CIRCUITS UP TO 100°C
- PRESSURISING SURGE TANKS
- PRESSURE MAINTENANCE

FEATURES

- INTERCHANGEABLE BLADDER
- 10 BAR MAXIMUM WORKING PRESSURE
- 1.5 BAR STANDARD PRE-LOADING PRESSURE
- WORKING TEMPERATURE -10°C/+100°C
- STAINLESS STEEL
- EPDM RUBBER MEMBRANE

Available with counter flanges lined with polypropylene. This new device avoids the contact between water and the counter flange, granting a complete protection from corrosion and acts as a 'WATER FLOW DEFLECTOR'. A simple and innovative solution that reduces the installation maintenance and grants duration and reliability.



STAINLESS STEEL PRESSURE VESSEL



COUNTER FLANGES

	PUMP TYPE	HEIGHT mm	DIAMETER mm	LENGTH mm	CONNECTION	CODE	PRICE £
VERTICAL	PI/X18	380	280	-	1"	PI/IIGXE00T01LA1	220
	PI/X24	460	280	-	1"	PI/IITXE00T01LA1	240
	PI/VX50	700	370	-	1"	PI/IIKXE01T01LA1	380
	PI/VX80	810	410	-	1"	PI/IIMXE01T01LA1	480
	PI/VX100	795	495	-	1"	PI/IINXE01T41LA1	690
	PI/VX200	1000	600	-	1"	PI/IQXG01T41LA1	980
HORIZONTAL	PI/HX18	310	280	360	1"	PI/IIGYE11T01LA1	240
	PI/HX24	310	280	470	1"	PI/IIIEYE11T01LA1	260
	PI/HX50	575	370	390	1"	PI/IIKYE11T01LA1	380
	PI/HX80	460	420	640	1"	PI/IIMYE11T01LA1	480
	PI/HX100	530	500	680	1"	PI/IINYE11T41LA1	690

PRESSURE WAVE SERIES



5 YEAR WARRANTY

A range of reliable pressure vessels, available in 10 and 16 bar pressure ratings and sizes from 0.16 to 80 litres. The series is constructed of a virgin polypropylene liner combined with an FDA approved high grade butyl diaphragm, which is held against the wall of the tank with a steel clench ring.

The tanks design includes rounded internal parts to prevent piercing and a unique connection providing a dual water / air seal for a complete leak and maintenance free vessel.

APPLICATIONS

- WATER BOOSTER SYSTEMS
- THERMAL EXPANSION
- IRRIGATION SYSTEMS
- HYDRAULIC HAMMER ARRESTING

FEATURES

- SINGLE DIAPHRAGM DESIGN
- NSF STANDARD 61, CE/PED, WRAS, ACS, ISO:9022, GOST APPROVED
- PATENTED STAINLESS STEEL WATER CONNECTION
- VIRGIN POLYPROPYLENE LINER
- TWO PART POLYURETHANE, EPOXY PRIMED PAINT FINISH
- MAXIMUM WORKING PRESSURE 10 BAR
- MAXIMUM WORKING TEMPERATURE 90°C



PRESSURE WAVE



MODEL	DIMENSIONS				CONNECTION	NOMINAL VOLUME		PRICE £
	A		B			litre	gal	
	cm	"	cm	"				
PGL / PWB2	20.9	8.23	12.6	4.96	1" BSP	2	0.5	32
PGL / PWB4	26.1	10.28	16.2	6.4	1" BSP	4	1.1	40
PGL / PWB8	31.3	12.32	20.2	7.95	1" BSP	8	2.1	46
PGL / PWB12	34.7	14.45	23	9.06	1" BSP	12	3.2	50
PGL / PWB18	36.7	14.45	27.9	10.98	1" BSP	18	4.8	61
PGL / PWB24	44.7	17.60	29	11.42	1" BSP	24	6.3	65
PGL / PWB35	48.1	18.9	31.8	12.52	1" BSP	35	9.3	105

HORIZONTAL MODELS

MODEL	DIMENSIONS						CONNECTION	PRICE £
	A		B		C			
	cm	"	cm	"	cm	"		
PGL / PWB8H	31.3	12.3	23.2	9.1	11.6	4.6	1" BSP	58
PGL / PWB12H	36.7	14.5	26	10.2	13	5.1	1" BSP	63
PGL / PWB20H	43.9	17.6	28.9	11.6	15.1	6	1" BSP	69
PGL / PWB24H	44.4	17.8	31.7	12.7	16.1	6.4	1" BSP	80
PGL / PWB35H	48.1	18.9	35.4	13.9	17.8	7	1" BSP	135
PGL / PWB60H	52.8	21.1	41.4	16.6	21.3	8.5	1" BSP	180
PGL / PWB80H	72.4	29	41.4	16.6	21.3	8.5	1" BSP	230
PGL / PWB100H	72	28.4	47.5	18.7	24.5	9.6	1" BSP	300



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CHALLENGER SERIES



5 YEAR WARRANTY

If you are looking for a reliable quality pressure vessel of medium size, Challenger™ tanks are the answer. Challenger™ tanks are available in 10 bar pressure rating and in sizes from 60 to 450 litres.

Requiring no maintenance, the range features a chlorine resistant 100% butyl diaphragm with a precision moulded copolymer polypropylene liner for superior air and water separation. The tank is constructed with a FDA approved high grade butyl, the diaphragm assembly seals water in a true non-corrosive chamber.

APPLICATIONS

- WATER BOOSTER SYSTEMS
- PRESSURE MAINTENANCE
- LIQUID EXPANSION
- ARRESTING WATER HAMMER

FEATURES

- PATENTED CAD2 DIAPHRAGM TECHNOLOGY
- NSF STANDARD 61, CE/PED, WRAS, ACS, ISO-9001, GOST APPROVED
- STAINLESS STEEL WATER CONNECTION
- CONDENSATION REDUCING DESIGN
- LEEK FREE AIR VALVE CAP SEALED WITH CLOSED CELL FOAM
- MAXIMUM WORKING PRESSURE 10 BAR
- MAXIMUM WORKING TEMPERATURE 90°C

CHALLENGER



PRESSURE WAVE

MODEL		DIMENSIONS								VOLUME		PRICE
BSP	CONNECTION	A		B		C		D		litre	gal	£
		cm	"	cm	"	cm	"	cm	"			
PGL / GC200	1" BSP	104.14	41.00	53.42	21.03	5.70	2.24	44.63	17.57	200	50	490
PGL / GC240	1" BSP	122.37	48.18	53.42	21.03	5.70	2.24	44.63	17.57	240	60	580
PGL / GC310	1" BSP	151.07	59.48	53.41	21.03	5.70	2.24	44.63	17.57	310	80	640
PGL / GC450	1" BSP	153.90	60.59	66.06	26.01	5.70	2.24	54.23	21.35	450	120	960

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C2-LITE CAD SERIES



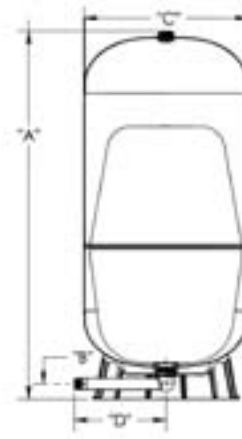
This range of tanks are a strong design which will not crease and wear out and, feature a chlorine resistant 100% butyl diaphragm with a precision moulded copolymer polypropylene liner for superior air and water separation. The patented design allows each size tank to have a properly sized water chamber matched to the drawdown performance of the tank. The tanks are easy to install, weather resistant and engineered to withstand even extreme environmental condition.

APPLICATIONS

- PRESSURE MAINTENANCE
- HYDRAULIC WATER HAMMER ARRESTING
- LIQUID EXPANSION

FEATURES

- PATENTED CAD-2 DIAPHRAGM TECHNOLOGY
- UNIQUE 3 PIECE CONSTRUCTION
- REINFORCED PLASTIC CONNECTION
- DURABLE CONTINUOUS STRAND FIBREGLASS SEALED WITH EPOXY RESIN
- RUGGED COPOLYMER POLYPROPYLENE BASE
- QUALITY BRASS AIR STEM WITH O-RING SEAL
- MAXIMUM WORKING PRESSURE 8.6 BAR
- MAXIMUM WORKING TEMPERATURE 60°C



CR-LITE CAD

MODEL BSP	DIMENSIONS								VOLUME		PRICE £
	A		B		C		D		litre	gal	
	cm	"	cm	"	cm	"	cm	"			
PGL / C2B-60	64.9	25.6	4.5	1.7	41.8	16.5	23.88	9.4	60	15	270
PGL / C2B-80	85.2	33.5	4.5	1.7	41.8	16.5	23.88	9.4	80	22	290
PGL / C2B-100	96.7	38.1	4.5	1.7	41.8	16.5	23.88	9.4	100	26	340
PGL / C2B-130	122.7	48.3	4.5	1.7	41.8	16.5	23.88	9.4	130	35	420
PGL / C2B-200	109.8	43.2	5.7	2.3	54.2	21.4	30.23	11.9	200	50	530
PGL / C2B-250	130.3	51.3	5.7	2.3	54.2	21.4	30.23	11.9	250	65	620
PGL / C2B-300	164.4	64.7	5.7	2.3	54.2	21.4	30.23	11.9	300	82	720
PGL / C2B-350	144.8	57	5.7	2.3	61.4	24.2	34.04	13.4	350	90	860
PGL / C2B-450	183.1	72.1	5.7	2.3	61.4	24.2	34.04	13.4	450	119	1050

ACCESSORIES

PRESSURE SWITCH

TYPE	BAR	PH	CODE	PRICE
PRITCPM5	1÷5	1	PIS/PM5	18
PRITCPM12	3÷12	1	PIS/PM12	20
PRITCPM5/3PH	1÷5	3	PIS/PMT5	20
PRITCPM12/3PH	3÷12	3	PIS/PMT12	22



FLEXIBLE HOSES

LENGTH mm	CONNECTION "	CODE	PRICE
500	1	PIS/FMFG0150	26
600	1	PIS/FMFG0160	27
800	1	PIS/FMFG0180	28
1000	1	PIS/FMFG01N1	30



PRESSURE GAUGE

TYPE	PRESSURE	DIAMETER mm	CODE	PRICE
R6 GAUGE	0÷6	50	PIS/MANAR5206	6
R12 GAUGE	0÷12	50	PIS/MANAR5212	6
B6 GAUGE	0÷6	50	PIS/MANAP5206	6
B12 GAUGE	0÷12	50	PIS/MANAP5212	6



WATER CONNECTION (MULTIWAY FITTING)

TYPE	LENGTH mm	DIAMETER mm	CODE	PRICE
3 WAY	72	1	PIS/RAC3V172	11
5 WAY	71.5	1	PIS/RAC5V172	12
5 WAY	82	1	PIS/RAC5V182	12
5 WAY	91	1	PIS/RAC5V192	13



ACCESSORIES

INTERCHANGEABLE BLADDERS

	USAGE FOR MODELS mm	CODE	PRICE £
BLUE VESSELS	AV2, AV5	PIS/ME012A	10
	AV8, AV12	PIS/ ME024A	14
	AV18, AO18	PIS/ ME050A	16
	AV24, AO24	PIS/ ME080A	28
	AV35, AV50, AO35, AO50	PIS/ ME100A	70
	AV60, AV80, AO60, AO80	PIS/ ME150A	80
	AV100, AO100	PIS/ ME200A	105
	AV150, AO150	PIS/ ME300A	130
	AV200, AO200	PIS/ ME500A	160
	AV300, AO300	PIS/ MEN10A	280
	AV500, AO500	PIS/ MEN20A	470
	AV750, AV1000	PIS/ MEN30A	600
	AV1500, AV2000	PIS/ MEN40A	1240
	AV3000, AV4000	PIS/ MEN50A	7300
	RED VESSELS	R2, R5	PIS/ ME012R
R8, R12		PIS/ ME024R	14
R18		PIS/ ME050R	16
R24		PIS/ ME080R	28
R35, R50, RV35, RV50		PIS/ ME150R	70
RV60, RV80		PIS/ ME300R	80
RV100, RV120, RV150		PIS/ ME500R	130
RV200, RV250, RV300		PIS/ ME600R	210
RV500		PIS/ MEN10R	470
RV750, RV1000		PIS/ MEN20R	600
RV1500, RV2000		PIS/ MEN30R	1240
RV3000, RV4000		PIS/ MEN40R	7300



COUNTER FLANGES

MODEL DIAMETER mm	CONNECTION mm	FINISHED	CODE	PRICE £
95	3/4"	GALVANISED	PIS/CFF095TRF008Z	8
95	1"	GALVANISED	PIS/CFF095TRF007Z	8
95	1"	STAINLESS STEEL	PIS/CFX095TRX004B	16
145	3/4"	GALVANISED	PIS/CFF145TRF008Z	10
145	3/4"	STAINLESS STEEL	PIS/CFX145TRX008B	24
145	1"	GALVANISED	PIS/CFF145TRF007Z	10
145	1"	STAINLESS STEEL	PIS/CFX145TRX004B	24
260	1 1/4"	GALVANISED	PIS/CFF260TRF001Z	50
260	1 1/4"	STAINLESS STEEL	PIS/CFX260TRX001B	100



PRESS 10 / 20 / 30

The Press 10, 20 and 30 are electronic pressure switches with built-in dry running protection.

They have been designed to be fitted to surface mounted pumps or inline from submersible well pumps for boosting water supply and low pressure main.

The unit is equipped with a check valve to prevent the pipeline from losing pressure. No taps can be installed between the pump and the Press unit.

APPLICATIONS

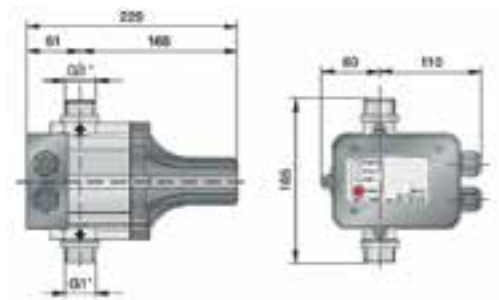
- PUMP CONTROL
- PRESSURE BOOSTING
- PRESSURE REGULATION

FEATURES

- UP TO 10 BAR
- DRY RUN PROTECTION
- BUILT-IN NON-RETURN VALVE
- 230V SINGLE PHASE
- DESIGNED FOR SURFACE MOUNTED AND SUBMERSIBLE PUMPS



PRESS 10, 20 & 30



TYPE	INLET / OUTLET " / mm	MAX amp	TEMP °C	MIN - MAX PRESSURE	PUMP START PRESSURE	WEIGHT kg	CODE	PRICE £
TT PRESS 10 230V	1" x 1" 25mm x 25mm	8	60	2.0 BAR - 10 BAR	2.3 BAR	1.1	PW/PRESS10	70
TT PRESS 20 230V	1" x 1" 25mm x 25mm	8	60	2.0 BAR - 10 BAR	2.8 BAR	1.1	PW/PRESS20	70
TT PRESS 30 230V	1 1/4" x 1 1/4" 32mm x 32mm	30	60	3.0 BAR - 10 BAR	3.0 BAR	2.2	PW/PRESS30	90

If the column of water between the pump and the highest discharge exceeds 15 metres, the unit cannot be installed directly on the pump, but it has to be raised until the column of water between the unit and the highest discharge does not exceed 15m.



VASCO

Vasco is a purpose built range of variable speed drives, designed to control and protect pumping systems based on changing the motor frequency and pump speed. Vasco units are extremely compact, can be connected to any pump on the market and will control the operation of the pump to maintain a constant desired pump performance (e.g. pressure, flow, temperature etc.) The easy to configure settings allow the Vasco to determine the most effective duty point for the pumps and system. Body construction is entirely aluminium, making the units solid, lightweight and easily cooled. Protected to IP55, the Vasco units can be installed in virtually any location including humid and dusty environments.



VASCO 209/214/409



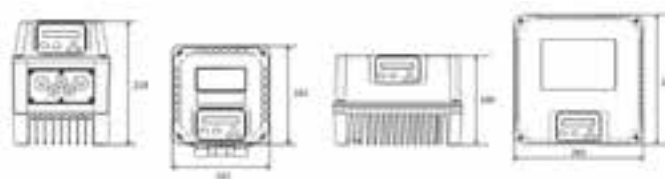
VASCO 414/418/425

APPLICATIONS

- WATER BOOSTING PUMP SYSTEMS
- PROCESS SYSTEMS
- RETROFIT TO IMPROVE OPERATING EFFICIENCY
- CONSTANT SUPPLY, CONSTANT PRESSURE
- WHERE VARIABLE SPEED MEETS DEMAND AND EFFICIENCY

FEATURES

- ENERGY AND COST SAVING
- SIMPLE TO INSTALL
- INCREASED PUMP LIFE
- GREATER RELIABILITY
- MOTOR PROTECTION AND MONITORING SUCH AS OVERLOAD AND DRY RUNNING
- SOFT START, SOFT STOP FUNCTION
- IMPROVED PUMP AND SYSTEM EFFICIENCY
- MOTOR MOUNTING AND WALL MOUNTING KITS AVAILABLE



TYPE	VOLTAGE INPUT	VOLTAGE OUTPUT	RATING AMPS	TYPICAL POWER P2 (kW)	CODE	PRICE £
VASCO 209 1PH	1 x 230	1 x 230	9	1.1kW	PNA/V209	595
		3 x 230	7	1.5kW		
VASCO 214 1PH	1 x 230	1 x 230	9	1.1kW	PNA/V214	850
		3 x 230	11	3.0kW		
VASCO 409 3PH	3 x 400	3 x 400	9	4kW	PNA/V409	1450
VASCO 414 3PH	3 x 400	3 x 400	14	5.5kW	PNA/V414	2095
VASCO 418 3PH	3 x 400	3 x 400	18	7.5kW	PNA/V418	2455
VASCO 425 3PH	3 x 400	3 x 400	28	11kW	PNA/V425	2545
MOTOR MOUNT KIT 209/214/409	N/A	N/A	N/A	N/A	PNA/MOTORKIT 1	28
MOTOR MOUNT KIT 414/418/425	N/A	N/A	N/A	N/A	PNA/MOTORKIT 2	56
WALL MOUNT KIT 209/214	N/A	N/A	N/A	N/A	PNA/WALLKIT 1	54
WALL MOUNT KIT 409	N/A	N/A	N/A	N/A	PNA/WALLKIT 2	54
WALL MOUNT KIT 414/418/425	N/A	N/A	N/A	N/A	PNA/WALLKIT 3	62
0-16BAR PRESS.SENSOR 4-20MA	N/A	N/A	N/A	N/A	PNA/PRESS.SENSOR	94



Compatible with CDL and CDLF, see pages 20 - 21.

VALVES FOR POTABLE AND CLEAN WATER APPLICATIONS



A proven range of engineered valves suitable for clean water and potable applications. Available from DN12 through to DN1200.

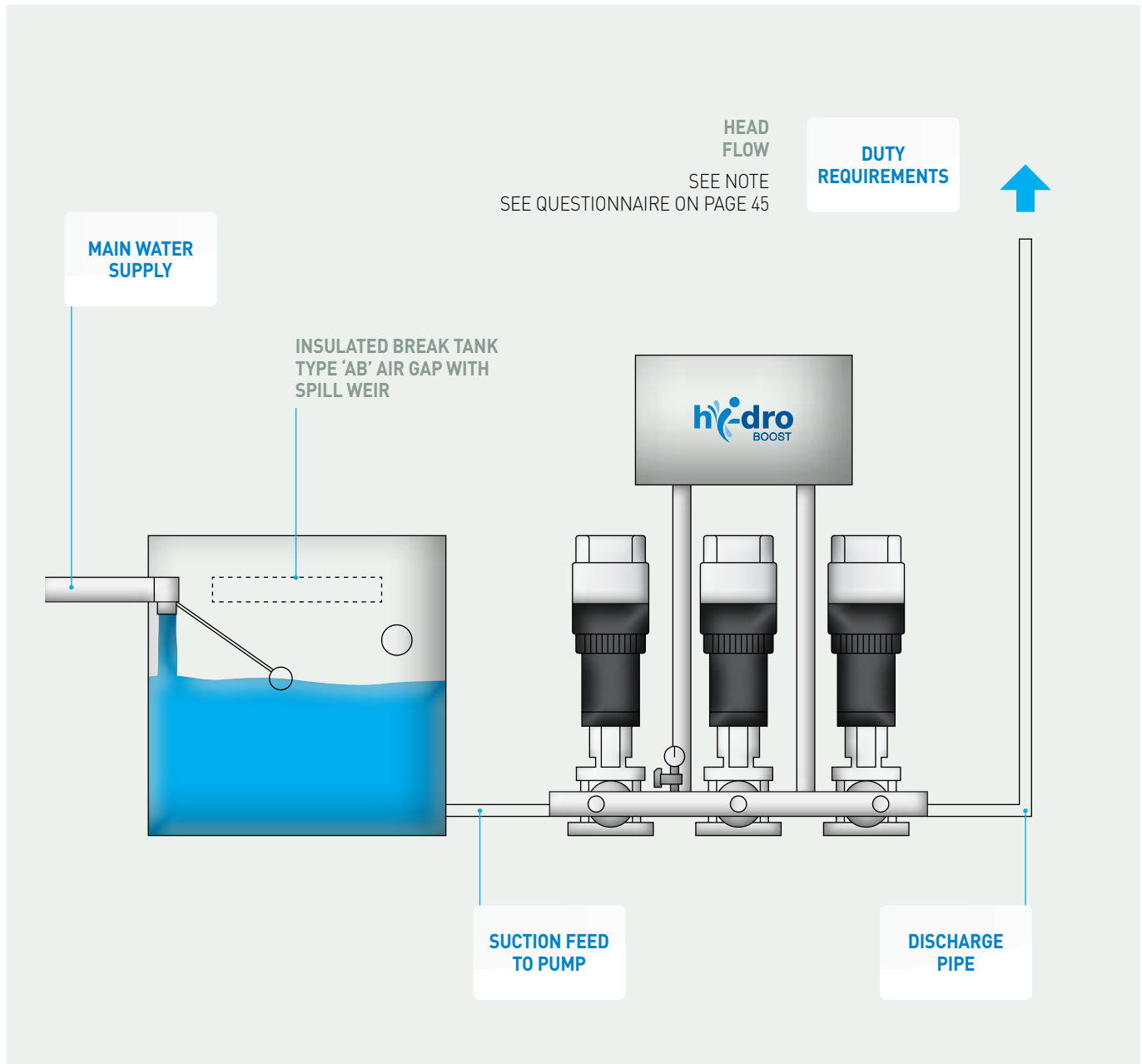


Please refer to Aquaflow literature or our website for full information.

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HOW TO DO IT

BOOSTER SET HI-DRO BOOST ARRANGEMENT

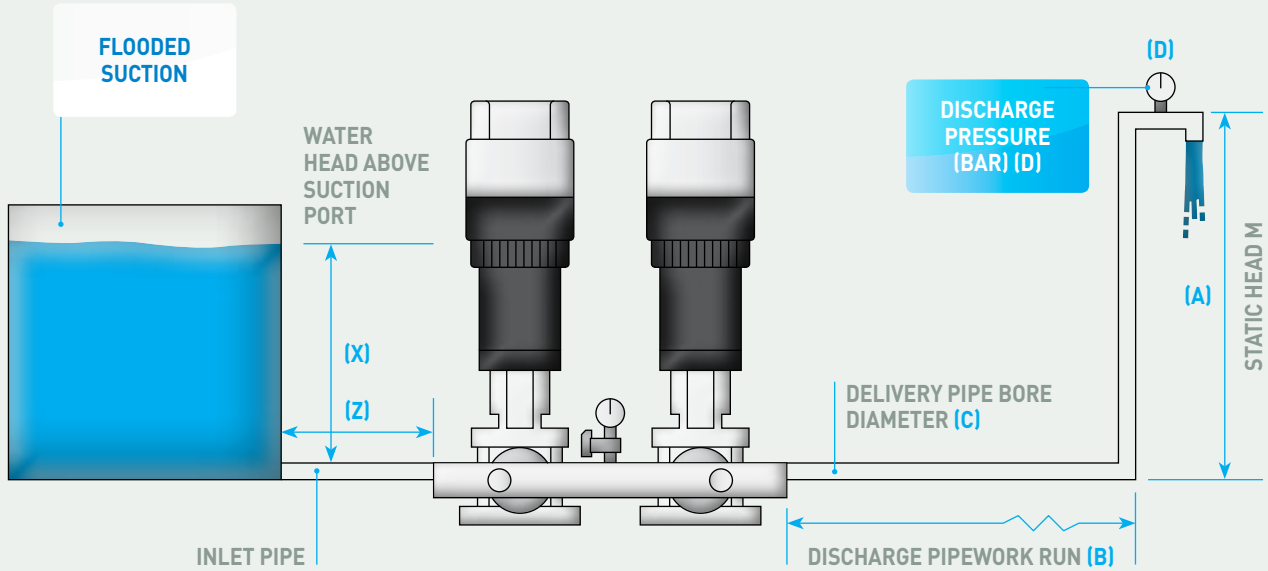


NOTES

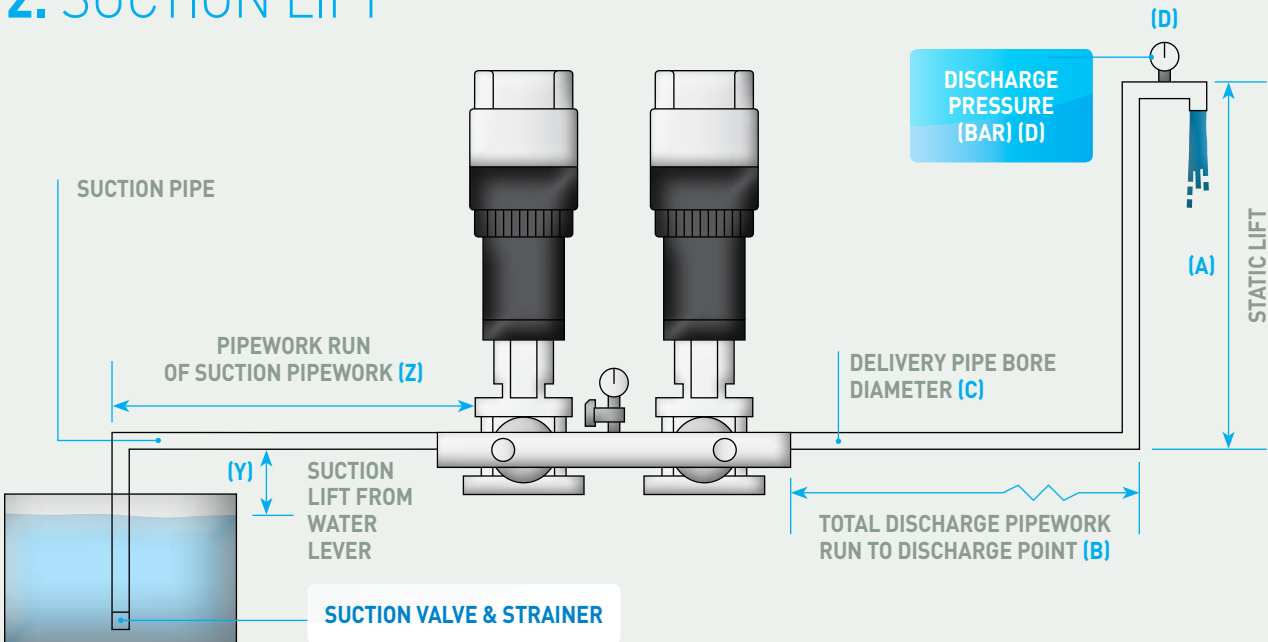
- Break tank with air gap and spill weir is required to comply with the Water Supply (Water Fittings) Regulations 1999.
- Duty requirements, every application is different, in order for us to select the most effective and efficient pumpset, please complete the questionnaire on page 45.

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1. FLOODED SUCTION



2. SUCTION LIFT



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SELECTION QUESTIONNAIRE

SCHEME	
DIAGRAM 1 OR 2	1. FLOODED SUCTION <input type="checkbox"/> OR 2. SUCTION LIFT <input type="checkbox"/>
DUTY POINT REQUIRED (IF KNOWN)	
FLOW <input type="text"/> l/m	(Y) DISCHARGE PRESSURE <input type="text"/> m
IF NOT, PLEASE SEE USAGE REQUIREMENT	
LIQUID TO BE PUMPED	
POWER SUPPLY AVAILABLE	230V <input type="checkbox"/> / 400V 3Ph <input type="checkbox"/>
FIXED OR VARIABLE SPEED*	FIXED <input type="checkbox"/> / VARIABLE <input type="checkbox"/>

SUCTION DETAILS	
(X) AVERAGE HEAD OF WATER ABOVE PUMP SUCTION POINT	<input type="text"/> m
(Y) SUCTION LIFT	<input type="text"/> m
(Z) SUCTION PIPEWORK TOTAL LENGTH	<input type="text"/> m
SUCTION / INLET PIPEWORK BORE	<input type="text"/> mm
SUCTION / INLET PIPEWORK MATERIAL (IF KNOWN / OR EXISTING)	
<input type="text"/>	

DELIVERY DETAILS	
(A) STATIC HEAD	<input type="text"/> m
(B) DELIVERY PIPEWORK TOTAL LENGTH	<input type="text"/> m
(C) DELIVERY PIPEWORK BORE	<input type="text"/> mm
DELIVERY PIPEWORK MATERIAL (IF KNOWN OR EXISTING)	
<input type="text"/>	
HIGHEST POINT IN SYSTEM (IF ABOVE (A))	<input type="text"/> m
(D) DISCHARGE PRESSURE REQUIRED	<input type="text"/> Bar

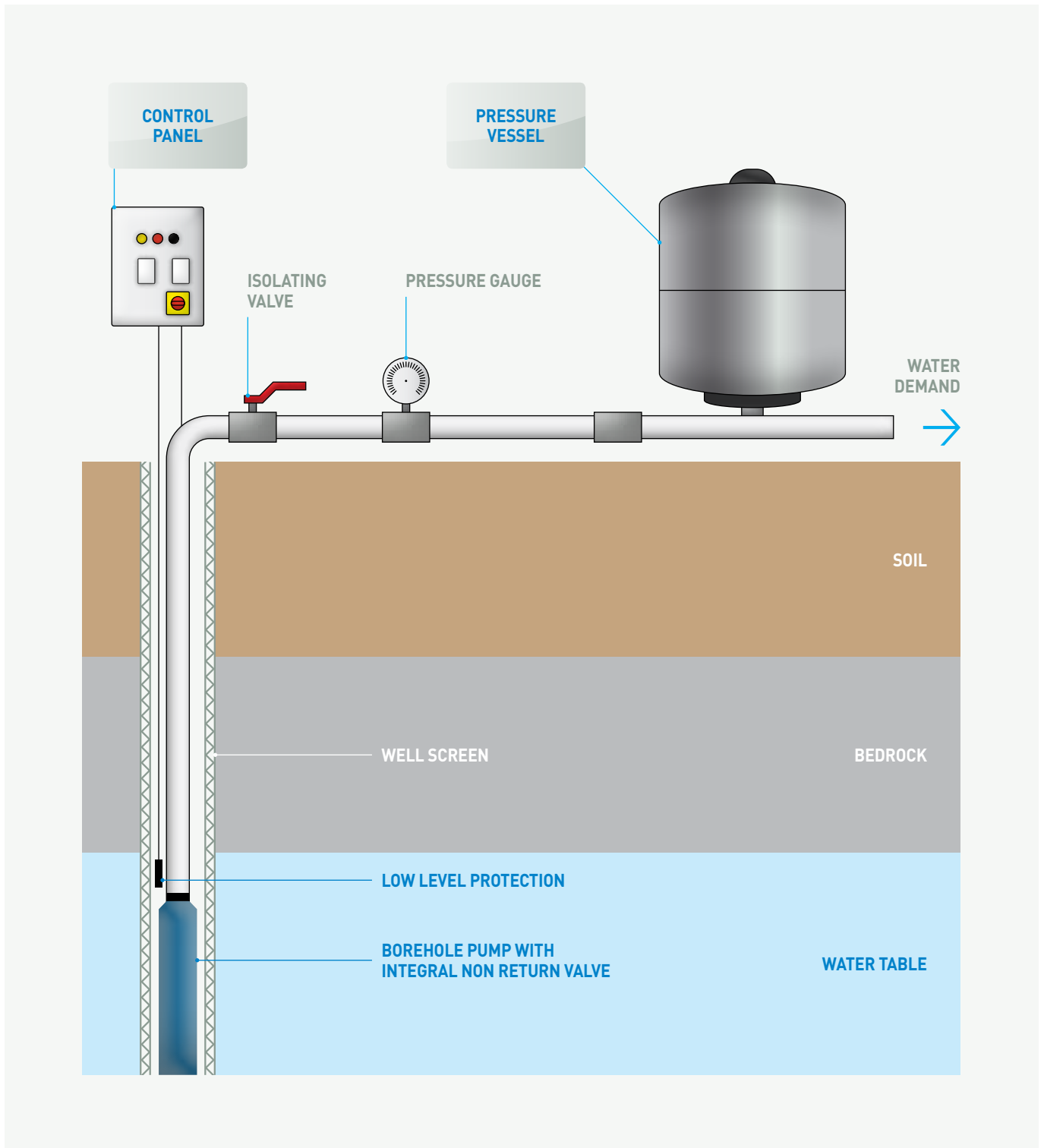
USAGE REQUIREMENTS	
DESCRIPTION	QUANTITY
WC	<input type="text"/>
WASH BASIN	<input type="text"/>
BATH	<input type="text"/>
SHOWER	<input type="text"/>
SINK	<input type="text"/>
WASHING MACHINE	<input type="text"/>
DISHWASHER	<input type="text"/>

YOUR CONTACT DETAILS	
COMPANY NAME	
<input type="text"/>	
NAME	
<input type="text"/>	
JOB TITLE	
<input type="text"/>	
ADDRESS	
<input type="text"/>	
<input type="text"/>	
<input type="text"/>	
<input type="text"/>	
POSTCODE	
<input type="text"/>	
TELEPHONE	
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FAX	
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E-MAIL	
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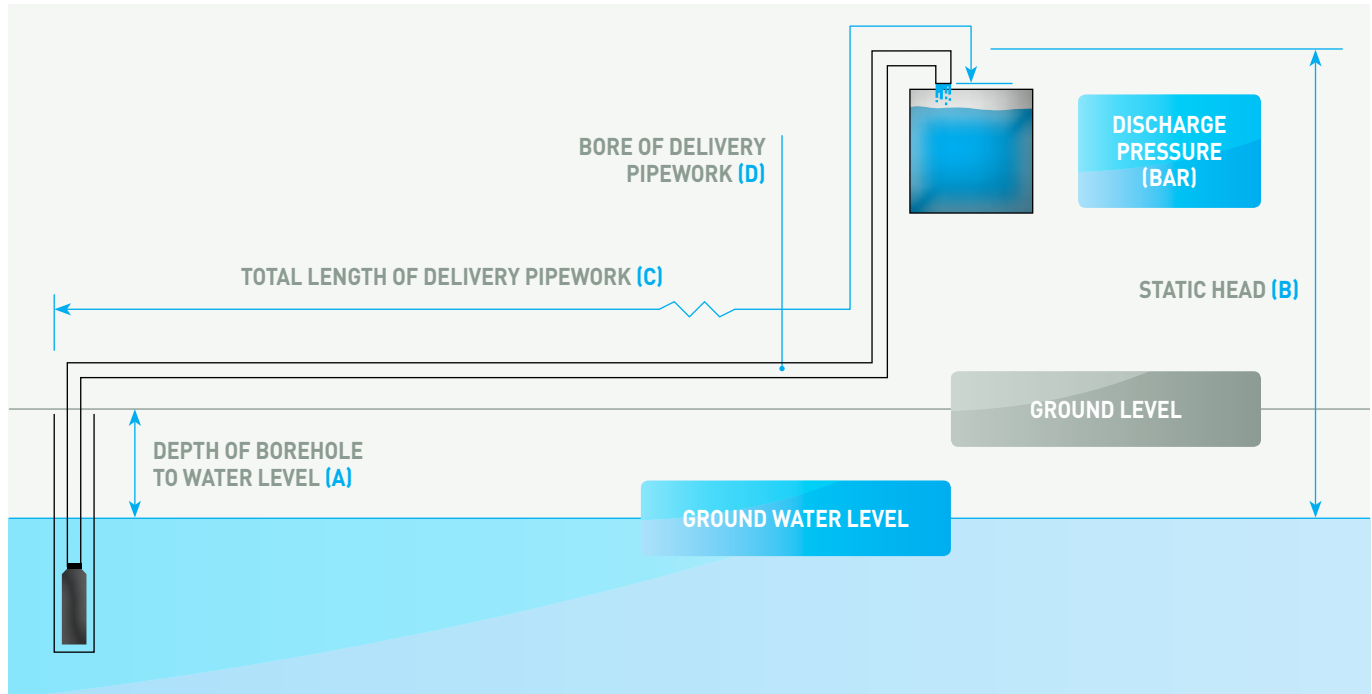
HOW TO DO IT

BOREHOLE ARRANGEMENT



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SELECTION QUESTIONNAIRE



SCHEME	
APPLICATION	
POWER SUPPLY AVAILABLE	230V <input type="checkbox"/> / 400V 3Ph <input type="checkbox"/>
DUTY POINT REQUIRED (IF KNOWN)	
FLOW	DISCHARGE PRESSURE
IF NOT...	
(A) DEPTH OF BOREHOLE FROM GROUND LEVEL TO WATER LEVEL	m
(B) STATIC HEAD	m
(C) DELIVERY PIPEWORK TOTAL LENGTH	m
(D) DELIVERY PIPEWORK BORE	mm
DELIVERY PIPEWORK MATERIAL (IF KNOWN)	

YOUR CONTACT DETAILS	
COMPANY NAME	
NAME	
JOB TITLE	
ADDRESS	
	POSTCODE
TELEPHONE	
FAX	
E-MAIL	

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DRAINAGE
PUMPS
PUMPS
DRAINAGE

DRAINAGE PRODUCT INDEX

PUMP TYPE	MAX FLOW m ³ /h	MAX FLOW l/sec	MAX HEAD m	APPLICATIONS			PAGE
				 INDUSTRIAL	 DRAINAGE WATER	 GENERAL EFFLUENTS	
PONDLIFE	4.8	1.33	80	✗	✗	✓	04
T-T50 / T-T100	10.8	3	9	✓	✓	✓	05
SUMPY Z	7.8	2.17	7	✓	✓	✓	06
SUMPY	15	4.17	9	✓	✓	✓	07
DR STEEL	21	5.83	16	✓	✓	✓	08
DG STEEL	22.5	6.25	10	✓	✓	✓	09
SAMSUMP	9.6	2.67	6	✓	✓	✓	10
GOLIATH SUPER	15	4.17	6	✓	✓	✓	11
DR BLUE PRO	39.6	11	16	✓	✓	✓	12
DRO RANGE	46.8	13	20	✓	✓	✓	13
DRB BRONZE	46.8	13	20	✓	✓	✓	14
DRX STAINLESS STEEL	46.8	13	18	✓	✓	✓	15
DRF RANGE	64.8	18	16	✓	✓	✓	16
DRP RANGE	262.8	73	53	✓	✓	✓	17
DRY RANGE	262.8	73	40	✓	✓	✓	18
AP BLUE PRO	234	65	26	✓	✓	✓	19
APN / APP RANGE	43.2	12	58	✓	✓	✓	20
APF RANGE	32.4	9	28	✓	✓	✓	21

INTRODUCTION

With many years in the pump industry we have used our knowledge and experience to offer you the best selection of drainage and dewatering pumps on the market.

Our stock includes an extensive range of submersible products from small pond pumps through to ATEX approved high-head pumps, all chosen for their quality and reliability, and that combine innovation and technology.

APPLICATIONS

- Ponds & water features
- Quarries & mines
- Nuisance water
- Cellars & basements
- Domestic & industrial use
- Marine
- Sewage & treatment works
- Agricultural

FEATURES

- Heads up to 130m
- Flows up to 660 l/s
- Motor sizes 0.37 - 200kW
- Solids handling up to 110mm
- Motor 2 to 8 pole
- Atex options available on request



DRAINAGE PUMPING STATIONS

SEE OUR WEBSITE
OR CONTACT OUR
SALES TEAM FOR
MORE INFORMATION

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PONDLIFE

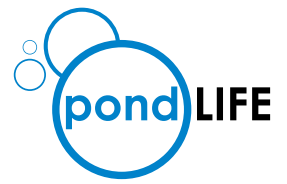
The Pondlife is a heavy duty utility pump designed for 24 hour circulation of fish ponds. It features a 125 watt motor and is an oil free design ensuring maximum reliability.

APPLICATIONS

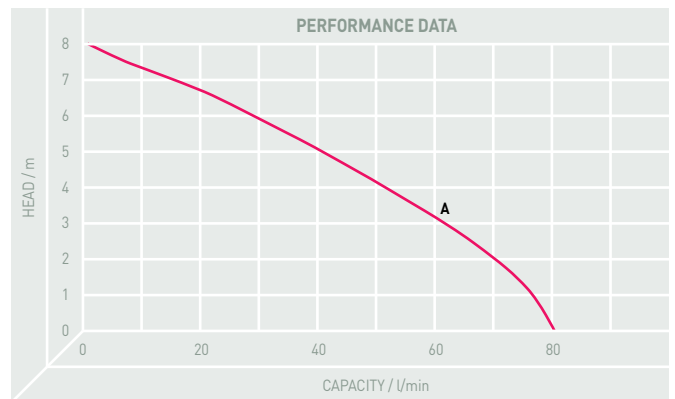
- FISH PONDS
- WATER FEATURES
- NUISANCE WATER

FEATURES

- ROBUST CONSTRUCTION IN THERMOPLASTIC
- MECHANICAL SEAL
- LIPSEAL
- OIL FREE DESIGN
- 5mm SOLIDS HANDLING
- 125 WATT MOTOR
- 3/4" & 1/2" DISCHARGE, 45° HOSE ADAPTOR
- LIQUID TEMPERATURE UP TO 40 °C
- IP68 MOTOR



PONDLIFE



PUMP TYPE	CURVE	OUTLET "/ mm	KW	WEIGHT kg	CODE	PRICE £
PONDLIFE	/ A	3/4" / 19mm	0.125	3	PH/PONDLIFE	99
PONDLIFE WITH F FLOAT	/ A	1/2" / 12mm	0.125	3	PH/PONDLIFE/F	119



The pump is designed so it can be installed in a horizontal or vertical position.



T-T 50 / T-T 100

The T-T 50 and T-T 100 are submersible drainage pumps for clean water, with non-abrasive particles, (max. solid bodies: 9mm). They have a stainless steel body, suction grid, motor casing and pump shaft and are ideal for domestic and industrial applications.

APPLICATIONS

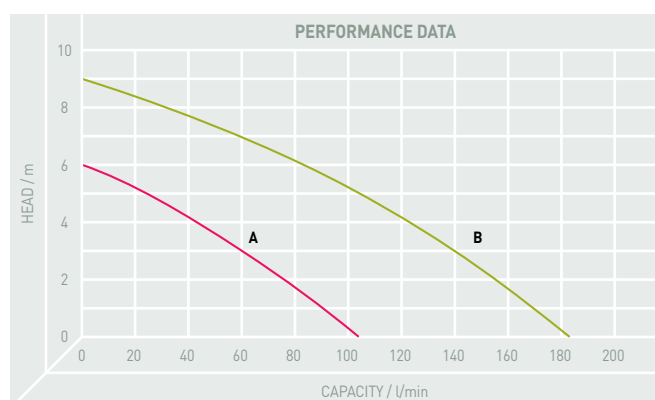
- DOMESTIC & INDUSTRIAL USE
- TANK FILLING
- FINAL EFFLUENT
- NUISANCE WATER

FEATURES

- STAINLESS STEEL CONSTRUCTION
- TECHNOPOLYMER IMPELLER
- MECHANICAL SEAL
- LIPSEAL
- 0.25 - 0.75kW OUTPUT
- 32mm DISCHARGE
- SUBMERSION DEPTH: MAX. 5m
- LIQUID TEMPERATURE UP TO 35°C
- IP65 MOTOR



T-T RANGE



PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
T-T 50 230V/1Ph	/ A	1 1/4" / 32mm	8	10	0.25	6	PW/TT50	110
T-T 100 230V/1Ph	/ B	1 1/4" / 32mm	9	10	0.75	7	PW/TT100	130



Remember to use a non-return valve to prevent backflow; please see the valves section for further details.

SUMPY Z

The Sumpy Z is a fully submersible, automatic sump pump with Z float for small water drainage applications. An integral float switch senses the rise and fall in water level and controls the pump automatically.

The Sumpy Z is suitable for a small sump. Body and strainer produced in technopolymer with stainless steel shaft, fitted with a lipseal.

APPLICATIONS

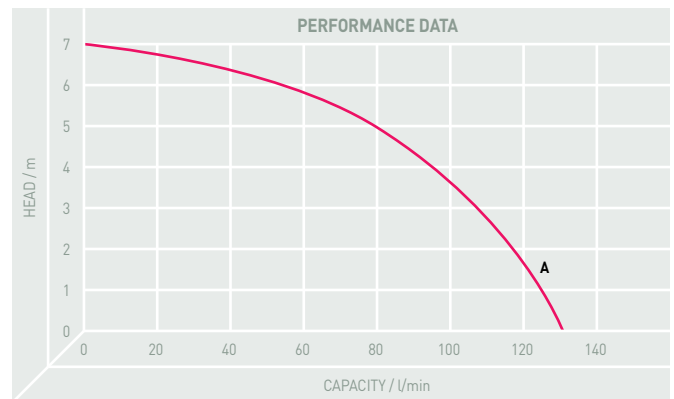
- DOMESTIC USE
- CELLARS & BASEMENTS
- FINAL EFFLUENT
- NUISANCE WATER

FEATURES

- ROBUST CONSTRUCTION
- NORYL IMPELLER
- LIPSEAL
- 5mm SOLIDS HANDLING
- 0.55kW OUTPUT
- 25mm DISCHARGE
- SUBMERSION DEPTH: MAX. 7m
- LIQUID TEMPERATURE UP TO 40°C
- IP68 MOTOR



SUMPY Z



PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
SUMPY Z 230V/1Ph	/ A	1" x 1" / 25mm	5	10	0.55	4.35	PW/SUMPYZ	150

Please note that the sump must be a minimum 400mm x 300mm x 400mm deep to allow the pump to operate correctly. This pump is not suitable for ponds.



SUMPY

The Sumpy is a fully submersible, automatic sump pump for small water drainage applications. An integral float switch senses the rise and fall in water level and controls the pump automatically.

Body and strainer produced in technopolymer with stainless steel shaft, fitted with a lipseal and mechanical seal.

APPLICATIONS

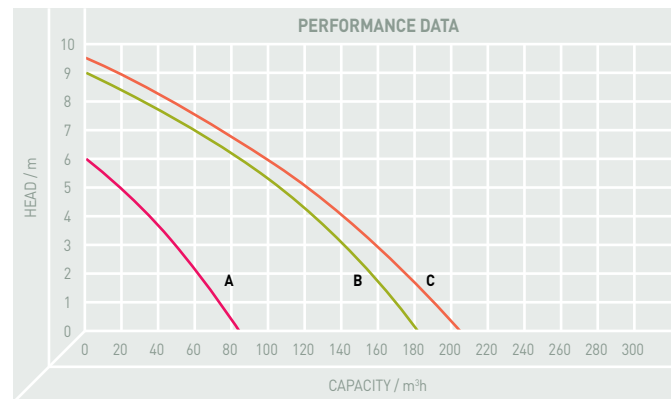
- DOMESTIC USE
- CELLARS & BASEMENTS
- FINAL EFFLUENT
- NUISANCE WATER

FEATURES

- ROBUST CONSTRUCTION
- TECHNOPOLYMER IMPELLER
- MECHANICAL SEAL
- LIPSEAL
- 5mm SOLIDS HANDLING
- 0.25 - 0.90kW OUTPUT
- 25 - 40mm DISCHARGE
- SUBMERSION DEPTH MAX. 5m
- LIQUID TEMPERATURE UP TO 35°C
- IP68 MOTOR



SUMPY



PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
SUMPY 30 230V/1Ph	/ A	1" x 1" / 25mm 1 1/4" / 32mm 1 1/2" / 40mm	3	10	0.25	4.7	PW/SUMPY30	90
SUMPY 75 230V/1Ph	/ B	1" x 1" 25mm 1 1/4" / 32mm 1 1/2" / 40mm	4	10	0.75	6.2	PW/SUMPY75	99
SUMPY 100 230V/1Ph	/ C	1" x 1" / 25mm 1 1/4" / 32mm 1 1/2" / 40mm	5	10	0.90	7.5	PW/SUMPY100	115



Please note that the sump must be a minimum 400mm x 400mm x 500mm deep to allow space for the float switch to move freely. This pump is not suitable for ponds.

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DR STEEL

Stainless steel drainage pump for clean water containing solids up to 12mm. For draining rooms or emptying tanks.

APPLICATIONS

- CELLARS & BASEMENTS
- DOMESTIC & INDUSTRIAL
- FINAL EFFLUENT
- NUISANCE WATER
- DE-WATERING

FEATURES

- STAINLESS STEEL CONSTRUCTION
- 0.25 - 0.75kW OUT POWER RANGE, OPEN MULTICHANNEL IMPELLER
- 2 POLE MOTOR
- G 1 1/4" - G 1 1/2" OUTLET
- 12mm MAX. FREE PASSAGE
- 16m MAX. HEAD
- 335 l/min MAX. CAPACITY



DR STEEL



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	kW	WEIGHT kg	CODE	PRICE £
DR-STEEL 25 230V/1Ph	/ A	1 1/4" / 32mm	12	0.25	5.9	PZ/DRSTEEL25/1	220
DR-STEEL 37 230V/1Ph	/ B	1 1/4" / 32mm	12	0.37	6.3	PZ/DRSTEEL37/1	240
DR-STEEL 55 230V/1Ph	/ C	1 1/2" / 40mm	12	0.55	7.7	PZ/DRSTEEL55/1	290
DR-STEEL 75 230V/1Ph	/ D	1 1/2" / 40mm	12	0.75	8.4	PZ/DRSTEEL75/1	320
DR-STEEL 75 400V/3Ph	/ D	1 1/2" / 40mm	12	0.75	8.4	PZ/DRSTEEL75T/3	330

DG STEEL

Stainless steel pump with vortex impeller for clean or slightly dirty water, containing solids up to 40mm grain size.

APPLICATIONS

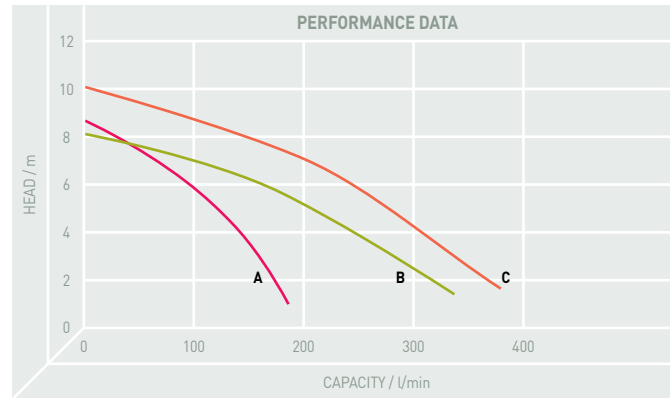
- CELLARS & BASEMENTS
- DOMESTIC & INDUSTRIAL
- FINAL EFFLUENT
- NUISANCE WATER
- DE-WATERING

FEATURES

- STAINLESS STEEL CONSTRUCTION
- 0.37 - 0.75kW OUT POWER RANGE, VORTEX IMPELLER
- 2 POLE MOTOR
- G 1 1/4" - G 1 1/2" OUTLET
- 40mm MAX. FREE PASSAGE
- 10m MAX. HEAD
- 375 l/min MAX. CAPACITY



DG STEEL



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	kW	WEIGHT kg	CODE	PRICE £
DG-STEEL 37 230V/1Ph	/ A	1 1/2" / 40mm	40	0.37	6.6	PZ/DGSTEEL37/1	260
DG-STEEL 55 230V/1Ph	/ B	1 1/2" / 40mm	40	0.55	8.1	PZ/DGSTEEL55/1	320
DG-STEEL 75 230V/1Ph	/ C	1 1/2" / 40mm	40	0.75	8.9	PZ/DGSTEEL75/1	350
DG-STEEL 75 400V/3Ph	/ C	1 1/2" / 40mm	40	0.75	8.9	PZ/DGSTEEL75T/3	360



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SAMSUMP

The Samsump is a robust sump pump constructed in fibre-reinforced plastic, giving resistance to corrosion. It is ideal for permanent installation where reliable automatic operation is essential.

The compact size of the Samsump allows it to fit into a sump hole measuring 200mm x 200mm deep.

APPLICATIONS

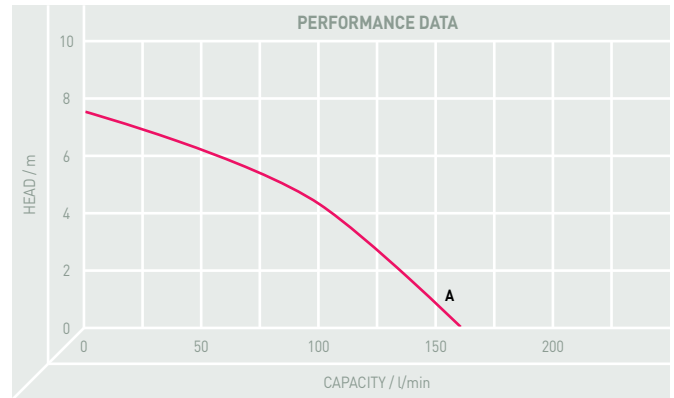
- SMALL WATER FEATURES
- CELLARS & BASEMENTS
- DOMESTIC & INDUSTRIAL USE
- FINAL EFFLUENT
- NUISANCE WATER
- MARINE APPLICATION

FEATURES

- CONSTRUCTED OF FIBRE-REINFORCED PLASTIC
- MECHANICAL SEAL
- LIPSEAL
- 9/9.5mm SOLIDS HANDLING
- 0.25kW OUTPUT
- 40mm DISCHARGE



SAMSUMP



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
SAMSUMP 230V/1Ph	/ A	1 3/4" / 40mm	9.5	10	0.25	4	PH/SAMSUMP	140
SAMSUMP 230V/1Ph*	/ A	1 3/4" / 40mm	9.5	10	0.25	4	PH/SAMSUMP/F	155

*Automatic version with Z Float.

Handy Hint! If you would like a similar pump but with larger solids handling, please see the Goliath Super II.



Goliath™

The Goliath Super® is a robust sump pump made of stainless steel plate and fibre-reinforced plastic, resistant to corrosion. It also features a vortex impeller giving 30mm solids handling. Maximum depth of submersion is 20m, minimum sump 250mm x 250mm.

APPLICATIONS

- SMALL WATER FEATURES
- CELLARS & BASEMENTS
- DOMESTIC & INDUSTRIAL USE
- FINAL EFFLUENT
- NUISANCE WATER
- MARINE APPLICATION

FEATURES

- STAINLESS STEEL CASING AND REINFORCED PLASTIC CONSTRUCTION
- DOUBLE MECHANICAL SEAL
- 30mm SOLIDS HANDLING
- 0.15kW OUTPUT
- 50mm DISCHARGE
- AUTOMATIC AS STANDARD BUT CAN BE CONVERTED TO MANUAL UPON REQUEST



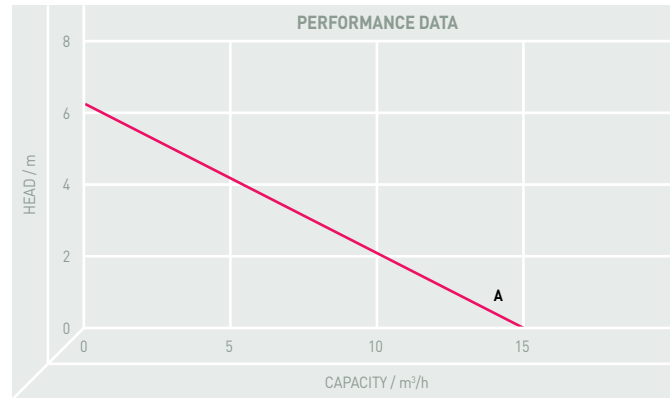
***GOLIATH SUPER®
(A FLOAT, STANDARD VERSION)**



****GOLIATH SUPER® (Z FLOAT)**



*****GOLIATH SUPER® (F FLOAT)**



PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
GOLIATH SUPER 230V/1Ph*	/ A	2" / 50mm	30	5	0.15	8	PM/GOLIATH1/1-A	230
GOLIATH SUPER 230V/1Ph***	/ A	2" / 50mm	30	5	0.15	8	PM/GOLIATH1/1-F	230
GOLIATH SUPER 230V/1Ph**	/ A	2" / 50mm	30	5	0.15	8	PM/GOLIATH1/1-Z	240
GOLIATH SUPER 110V/1Ph*	/ A	2" / 50mm	30	5	0.15	8	PM/GOLIATH1/2-A	230
GOLIATH SUPER 110V/1Ph***	/ A	2" / 50mm	30	5	0.15	8	PM/GOLIATH1/2-F	230
GOLIATH SUPER 110V/1Ph**	/ A	2" / 50mm	30	5	0.15	8	PM/GOLIATH1/2-Z	240

*Automatic version with vertical float switch. **Automatic version with Z float. ***Automatic version with F float. 10m cables available on request at an additional cost. Manual version available on request.



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DR BLUE PROFESSIONAL

Designed for domestic and professional use, the DR Blue Pro range of submersible drainage pumps has an open multi-channel impeller for most soiled water applications.

APPLICATIONS

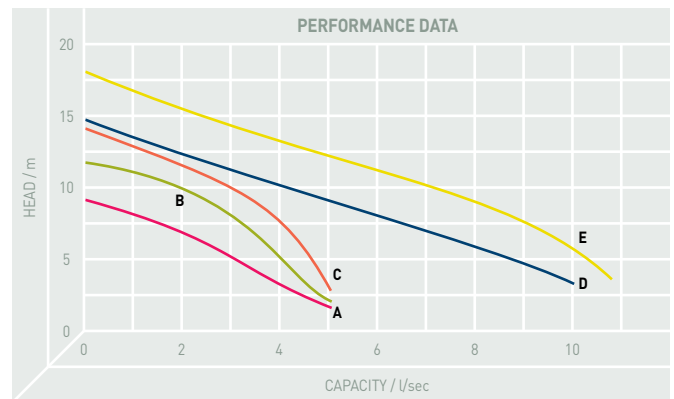
- CELLARS & BASEMENTS
- INDUSTRIAL SCHEMES
- FINAL EFFLUENT
- NUISANCE WATER
- HIRE FLEETS
(110V OPTION ONLY)
- CIVIL CONSTRUCTION

FEATURES

- CAST IRON CONSTRUCTION & IMPELLER
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 15mm - 30 x 10mm SOLIDS HANDLING
- 0.37 - 1.5kW OUTPUT
- 32 - 50mm DISCHARGE
- AUTOMATIC AS STANDARD
- ALSO AVAILABLE IN 110V



DR BLUE PROFESSIONAL



	PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
01	DR BLUE PRO 50/2/G32 230V/1Ph	/ A	1 1/4" / 32mm	15	10	0.37	12	PZ/1094.005	275
02	DR BLUE PRO 50/2/G32 400V/3Ph	/ A	1 1/4" / 32mm	15	10	0.37	12	PZ/1096.004	275
03	DR BLUE PRO 75/2/G32 110V/1Ph	/ B	1 1/4" / 32mm	15	10	10	13.5	PZ/1098.011	295
04	DR BLUE PRO 75/2/G32 230V/1Ph	/ B	1 1/4" / 32mm	15	10	0.55	13.5	PZ/1098.005	300
05	DR BLUE PRO 75/2/G32 400V/3Ph	/ B	1 1/4" / 32mm	15	10	0.55	13.5	PZ/1100.004	300
06	DR BLUE PRO 100/2/G32 230V/1Ph	/ C	1 1/4" / 32mm	15	10	0.74	14	PZ/1090.005	380
07	DR BLUE PRO 100/2/G32 400V/3Ph	/ C	1 1/4" / 32mm	15	10	0.74	14	PZ/1092.004	380
08	DR BLUE PRO 150/2/G50 110V/1Ph	/ D	2" / 50mm	30 x 10	10	1.1	23	PZ/1106.006	450
09	DR BLUE PRO 150/2/G50 230V/1Ph	/ D	2" / 50mm	30 x 10	10	1.1	23	PZ/1106.005	460
10	DR BLUE PRO 150/2/G50 400V/3Ph	/ D	2" / 50mm	30 x 10	10	1.1	23	PZ/1107.002	460
11	DR BLUE PRO 200/2/G50 230V/1Ph	/ E	2" / 50mm	30 x 10	10	1.5	24	PZ/1108.004	540
12	DR BLUE PRO 200/2/G50 400V/3Ph	/ E	2" / 50mm	30 x 10	10	1.5	24	PZ/1109.002	540

DRO RANGE

The DRO range of small drainage pumps is ideal for domestic and industrial use, with the pumps featuring cast construction, heavy-duty bearings and a double silicon carbide mechanical shaft seal, within an oil bath. These pumps have a horizontal outlet.

APPLICATIONS

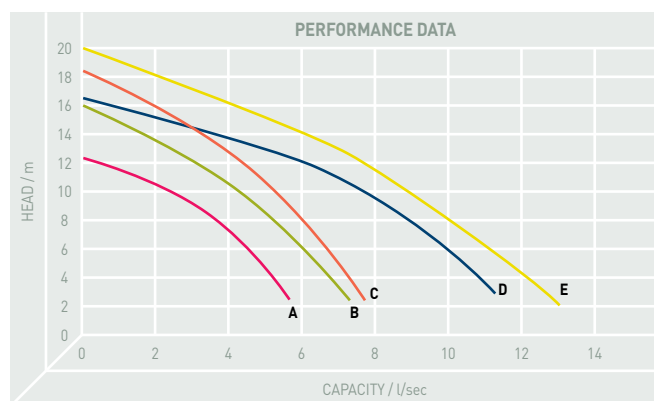
- CELLARS & BASEMENTS
- DOMESTIC & INDUSTRIAL
- FINAL EFFLUENT
- NUISANCE WATER
- DE-WATERING

FEATURES

- CAST CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 10 x 20mm SOLIDS HANDLING
- 0.37 - 1.5kW OUTPUT
- 32 - 50mm DISCHARGE
- AUTO-COUPLING AVAILABLE



DRO



PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
DRO 50/2/G32V 230V/1Ph	/ A	1 1/4" / 32mm	10 x 20	10	0.37	15	PZ/DR050/2/1	380
DRO 50/2/G32V 400V/3Ph	/ A	1 1/4" / 32mm	10 x 20	10	0.37	15	PZ/DR050/2/3	380
DRO 75/2/G32V 230V/1Ph	/ B	1 1/4" / 32mm	10 x 20	10	0.55	15.5	PZ/DR075/2/1	430
DRO 75/2/G32V 400V/3Ph	/ B	1 1/4" / 32mm	10 x 20	10	0.55	15.5	PZ/DR075/2/3	380
DRO 100/2/G50H 230V/1Ph	/ C	2" / 50mm	10 x 20	10	0.88	19.5	PZ/0021.002	580
DRO 100/2/G50H 400V/3Ph	/ C	2" / 50mm	10 x 20	10	0.88	19.5	PZ/0022.002	580
DRO 150/2/G50H 230V/1Ph	/ D	2" / 50mm	10 x 20	10	1.1	20.5	PZ/0025.002	620
DRO 150/2/G50H 400V/3Ph	/ D	2" / 50mm	10 x 20	10	1.1	20.5	PZ/0026.002	620
DRO 200/2/G50H 230V/1Ph	/ E	2" / 50mm	10 x 20	10	1.5	21.5	PZ/0029.002	680
DRO 200/2/G50H 400V/3Ph	/ E	2" / 50mm	10 x 20	10	1.5	21.5	PZ/0030.003	680



Please see the DRX and DRB ranges for the same pumps constructed in stainless steel and Bronze.

DRB BRONZE

The DRB range of small drainage pumps is ideal for heavy-duty use. These pumps are constructed in B-10 Bronze, and incorporate heavy-duty bearings and a silicon carbide mechanical shaft seal.

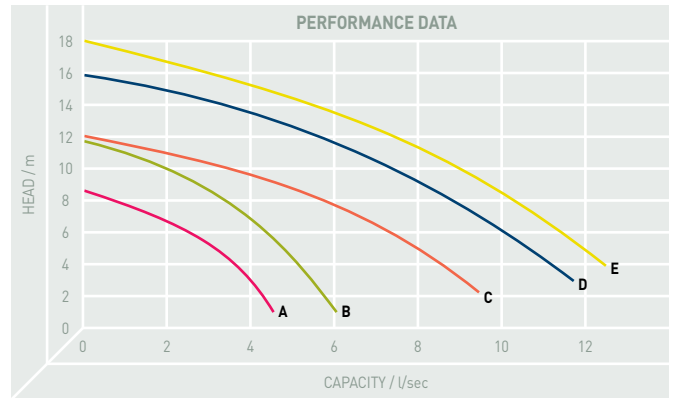
APPLICATIONS

- SEA WATER & BRINE
- MARINE
- FOOD PROCESSING
- DOMESTIC & INDUSTRIAL USE
- CHEMICALS
- SEWAGE & TREATMENT WORKS

- BRONZE CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 10 x 20mm SOLIDS HANDLING
- 0.37 - 1.5kW OUTPUT
- 32 - 50mm DISCHARGE
- AUTOMATIC VERSION AVAILABLE ON REQUEST



DRB BRONZE



	PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
01	DRB 50/2/G32V 230V/1Ph	/ A	1 1/4" / 32mm	10 x 20	10	0.37	17	PZ/DRB50/2/1	1050
02	DRB 50/2/G32V 400V/3Ph	/ A	1 1/4" / 32mm	10 x 20	10	0.37	17	PZ/DRB50/2/3	1050
03	DRB 75/2/G32V 230V/1Ph	/ B	1 1/4" / 32mm	10 x 20	10	0.55	17	PZ/DRB75/2/1	1300
04	DRB 75/2/G32V 400V/3Ph	/ B	1 1/4" / 32mm	10 x 20	10	0.55	17	PZ/DRB75/2/3	1300
05	DRB 100/2/G50V 230V/1Ph	/ C	2" / 50mm	10 x 20	10	0.88	21	PZ/DRB100/2/1	1600
06	DRB 100/2/G50V 400V/3Ph	/ C	2" / 50mm	10 x 20	10	0.88	21	PZ/DRB100/2/3	1600
07	DRB 150/2/G50V 230V/1Ph	/ D	2" / 50mm	10 x 20	10	1.1	23	PZ/DRB150/2/1	1800
08	DRB 150/2/G50V 400V/3Ph	/ D	2" / 50mm	10 x 20	10	1.1	23	PZ/DRB150/2/3	1800
09	DRB 200/2/G50V 230V/1Ph	/ E	2" / 50mm	10 x 20	10	1.5	23	PZ/DRB200/2/1	1960
10	DRB 200/2/G50V 400V/3Ph	/ E	2" / 50mm	10 x 20	10	1.5	23	PZ/DRB200/2/3	1960

The same pump range is available in cast iron (DRO Range), cast-iron with an explosion proof motor (DRF Range) and stainless steel (DRX Range).



DRX STAINLESS STEEL

CORROSION BEATER

The DRX range of small drainage pumps is ideal for heavy-duty use. The pumps are constructed in 316 cast stainless steel, and feature heavy-duty bearings and a silicon carbide mechanical shaft seal.

APPLICATIONS

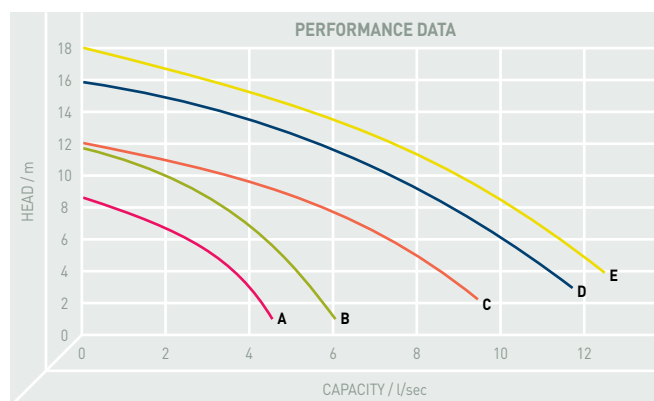
- FOOD PROCESSING
- DOMESTIC & INDUSTRIAL USE
- MARINE
- SEA WATER
- CHEMICALS
- SEWAGE & TREATMENT WORKS

FEATURES

- 316 CAST STAINLESS STEEL CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 10 x 20mm SOLIDS HANDLING
- 0.37 - 1.5kW OUTPUT
- 32 - 50mm DISCHARGE
- AUTOMATIC VERSION AVAILABLE ON REQUEST



DRX STAINLESS STEEL



PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
DRX 50/2/G32V 230V/1Ph	/ A	1 1/4" / 32mm	10 x 20	10	0.37	17	PZ/0045.002	1290
DRX 50/2/G32V 400V/3Ph	/ A	1 1/4" / 32mm	10 x 20	10	0.37	17	PZ/0046.001	1290
DRX 75/2/G32V 230V/1Ph	/ B	1 1/4" / 32mm	10 x 20	10	0.55	17	PZ/0047.002	1580
DRX 75/2/G32V 400V/3Ph	/ B	1 1/4" / 32mm	10 x 20	10	0.55	17	PZ/0048.001	1580
DRX 100/2/G50V 230V/1Ph	/ C	2" / 50mm	10 x 20	10	0.88	21	PZ/0049.003	1960
DRX 100/2/G50V 400V/3Ph	/ C	2" / 50mm	10 x 20	10	0.88	21	PZ/0049.001	1960
DRX 150/2/G50V 230V/1Ph	/ D	2" / 50mm	10 x 20	10	1.1	23	PZ/0051.003	2280
DRX 150/2/G50V 400V/3Ph	/ D	2" / 50mm	10 x 20	10	1.1	23	PZ/0052.001	2280
DRX 200/2/G50V 230V/1Ph	/ E	2" / 50mm	10 x 20	10	1.5	23	PZ/0053.003	2420
DRX 200/2/G50V 400V/3Ph	/ E	2" / 50mm	10 x 20	10	1.5	23	PZ/0054.001	2420



Please see the DRB and DRF ranges for the same pumps constructed in Bronze and with explosion proof motors.

DRF RANGE

ATEX EExd IIB T4

The DRF range of small drainage pumps are ideal for heavy-duty use. Each pump is constructed in cast iron, incorporating an explosion-proof motor (ATEX) for use in flammable liquids and potentially explosive atmospheres.

These pumps also incorporate heavy-duty bearings and a double silicon carbide mechanical shaft seal.

APPLICATIONS

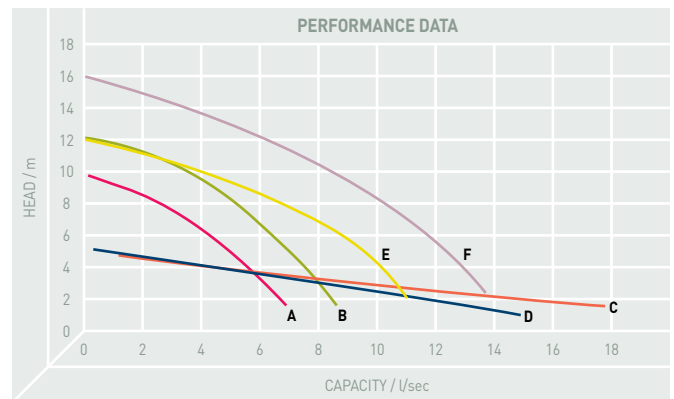
- CONSTRUCTION & HOUSING DEVELOPMENT
- DOMESTIC & INDUSTRIAL
- FINAL EFFLUENT
- CHEMICALS
- SEWAGE & TREATMENT WORKS
- CIVIL CONSTRUCTION
- DE-WATERING

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 16 - 50mm SOLIDS HANDLING
- 0.55 - 1.5kW OUTPUT
- 40 - 100mm DISCHARGE
- AUTO-COUPLING AVAILABLE



DRF



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
DRF 75/2/G40H 230V/1Ph	/ A	1 1/2" / 40mm	16	10	0.55	27	PZ/DRF75/2/1	920
DRF 75/2/G40H 400V/3Ph	/ A	1 1/2" / 40mm	16	10	0.55	27	PZ/DRF75/2/3	920
DRF 100/2/G40H 230V/1Ph	/ B	1 1/2" / 40mm	10 x 20	10	0.74	31	PZ/DRF100/2/1	980
DRF 100/2/G40H 400V/3Ph	/ B	1 1/2" / 40mm	10 x 20	10	0.74	31	PZ/DRF100/2/3	980
DRF 150/2/G50H 230V/1Ph	/ E	2" / 50mm	20	10	1.1	31	PZ/DRF150/2/1	1060
DRF 150/2/G50H 400V/3Ph	/ E	2" / 50mm	20	10	1.1	31	PZ/DRF150/2/3	1060
DRF 200/2/G50H 230V/1Ph	/ F	2" / 50mm	20	10	1.5	32	PZ/DRF200/2/1	1100
DRF 200/2/G50H 400V/3Ph	/ F	2" / 50mm	20	10	1.5	32	PZ/DRF200/2/3	1100
DRF 100/4/80 400V/3Ph	/ D	3" / 80mm	50	10	0.74	42	PZ/DRF100/4/80	1340
DRF 100/4/100 400V/3Ph	/ C	4" / 100mm	50	10	0.74	47	PZ/DRF100/4/100	1340

Please see the DRO range for the same pump without the explosion-proof motor.



DRP RANGE

The DRP range of large, cast iron drainage pumps feature twin-channel impellers, triple mechanical seals within an oil bath and an oil-filled motor. These are large pumps and specifically designed for professional / industrial use.

APPLICATIONS

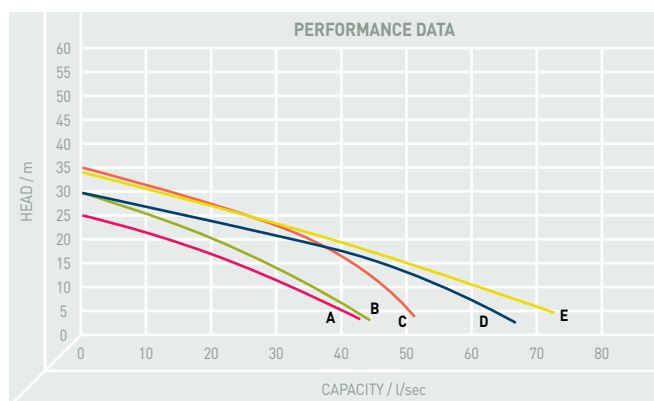
- CONSTRUCTION & HOUSING DEVELOPMENTS
- FOOD PROCESSING
- LARGE WATER FEATURES
- INDUSTRIAL USE
- NUISANCE WATER
- IRRIGATION
- SEWAGE & TREATMENT WORKS

FEATURES

- CAST IRON CONSTRUCTION
- TRIPLE MECHANICAL SEAL WITHIN OIL BATH
- 54 - 80mm SOLIDS HANDLING
- 7.2 - 15kW OUTPUT
- 80 - 100mm DISCHARGE
- AUTO-COUPLING AVAILABLE UPON REQUEST



DRP



PUMP TYPE	CURVE	OUTLET "/mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
DRP 750/2/80H 400V/3Ph	/ A	3" / 80mm	63	10	7.2	100	PZ/0068.002	2875
DRP 1000/2/80H 400V/3Ph	/ B	3" / 80mm	65	10	10	105	PZ/0069.002	3100
DRP 1500/2/80H 400V/3Ph	/ C	3" / 80mm	60	10	15	128	PZ/DRP1500/80/3	3955
DRP 1000/2/100H 400V/3Ph	/ D	4" / 100mm	80	10	10	108	PZ/0070.002	3350
DRP 1500/2/100H 400V/3Ph	/ E	4" / 100mm	80	10	15	130	PZ/DRP1500/100	4300



This pump range is also available in 4 & 6 pole versions; please contact our Sales Team for further details.

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DRY STAINLESS STEEL

The DRY range of large, stainless steel drainage pumps feature open twin-channel impellers, triple mechanical seals within an oil bath and an oil-filled motor. These pumps are specifically designed for professional / industrial use.

APPLICATIONS

- CONSTRUCTION & HOUSING DEVELOPMENT
- FOOD PROCESSING
- LARGE WATER FEATURES
- INDUSTRIAL USE
- SEWAGE & TREATMENT WORKS
- SEA WATER
- CHEMICALS

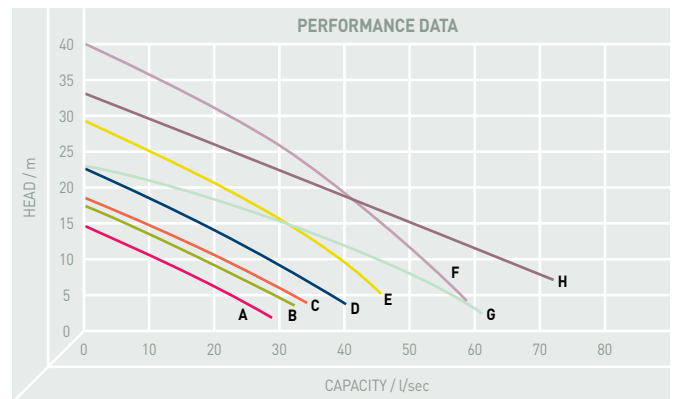
FEATURES

- 316 CAST STAINLESS STEEL CONSTRUCTION
- TRIPLE MECHANICAL SEAL WITHIN OIL BATH
- 56 - 80mm SOLIDS HANDLING
- 2.7 - 15kW OUTPUT
- 80 - 100mm DISCHARGE
- AUTO-COUPLING AVAILABLE

CORROSION BEATER



DRY STAINLESS STEEL



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
DRY 300/2/80H 400V/3Ph	/ A	3" / 80mm	56	10	2.7	51	PZ/0101.001	5200
DRY 400/2/80H 400V/3Ph	/ B	3" / 80mm	56	10	3.6	65	PZ/0103.001	7200
DRY 550/2/80H 400V/3Ph	/ C	3" / 80mm	56	10	4.9	62	PZ/0104.001	7800
DRY 750/2/80H 400V/3Ph	/ D	3" / 80mm	63	10	7.2	104	PZ/0105.001	11000
DRY 1000/2/80H 400V/3Ph	/ E	3" / 80mm	65	10	10	110	PZ/0106.001	12500
DRY 1500/2/80H 400V/3Ph	/ F	3" / 80mm	60	10	15	130	PZ/0108.001	15750
DRY 1000/2/100H 400V/3Ph	/ G	4" / 100mm	80	10	10	115	PZ/0107.001	12800
DRY 1500/2/100H 400V/3Ph	/ H	4" / 100mm	80	10	15	144	PZ/DRY1500/100	16450

This pump range is also available in 4 pole; please contact us for further details.



AP BLUE PROFESSIONAL

Designed for domestic and professional use, the AP Blue Pro range of submersible pumps with high-head cast iron impeller, is ideal for clean water, rainwater and seepage water and for sandy / muddy water containing small particles, no larger than 7mm, in suspension.

APPLICATIONS

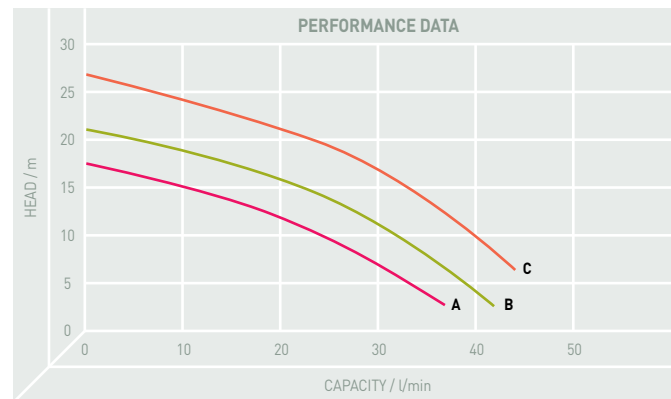
- DOMESTIC & INDUSTRIAL SCHEMES
- AGRICULTURAL & FARMS
- SEWAGE & TREATMENT WORKS
- IRRIGATION

FEATURES

- CAST IRON CONSTRUCTION & IMPELLER
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 0.74 - 1.5kW OUTPUT
- 7mm SOLIDS HANDLING
- 40mm DISCHARGE
- AUTOMATIC AS STANDARD



AP BLUE PROFESSIONAL



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
AP BLUE PRO 100/2/G40H 230V/1Ph	/ A	1 1/2" / 40mm	7	10	0.74	18	PZ/1110.002	500
AP BLUE PRO 100/2/G40H 400V/3Ph	/ A	1 1/2" / 40mm	7	10	0.74	18	PZ/1111.001	500
AP BLUE PRO 150/2/G40H 230V/1Ph	/ B	1 1/2" / 40mm	7	10	1.1	23	PZ/1112.002	590
AP BLUE PRO 150/2/G40H 400V/3Ph	/ B	1 1/2" / 40mm	7	10	1.1	23	PZ/1113.001	590
AP BLUE PRO 200/2/G40H 230V/1Ph	/ C	1 1/2" / 40mm	7	10	1.5	24	PZ/1114.002	690
AP BLUE PRO 200/2/G40H 400V/3Ph	/ C	1 1/2" / 40mm	7	10	1.5	24	PZ/1115.001	690



Please also see the larger range of high head drainage pumps - APN and APP ranges.

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APN / APP RANGES

These ranges offer a series of pumps with high-head open multi-channel impellers for clean water, rainwater and seepage water and for sandy / muddy water containing small particles in suspension. APN pumps have double mechanical seals and are designed for heavy-duty professional use. APP pumps have triple mechanical seals and are designed for heavy-duty professional use.

APPLICATIONS

- DOMESTIC & INDUSTRIAL
- FINAL EFFLUENT
- NUISANCE WATER
- AGRICULTURAL & FARMS
- IRRIGATION
- DE-WATERING

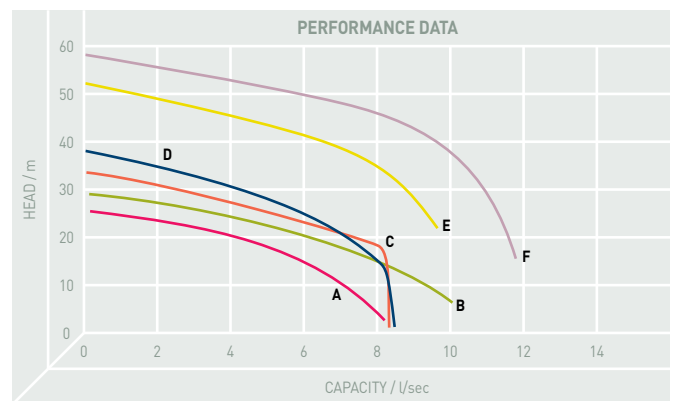
FEATURES

- CAST IRON CONSTRUCTION
- APN - DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- APP - TRIPLE MECHANICAL SEAL WITHIN OIL BATH
- 10 - 12mm SOLIDS HANDLING
- 1.8 - 10kW OUTPUT
- 40 - 50mm DISCHARGE



BASE STAND

APN



PUMP TYPE	CURVE	OUTLET "/mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
APN 250/2/G40H 400V/3Ph	/ A	1 1/2" / 40mm	10	10	1.8	43	PZ/0311.002	1440
APN 300/2/G50H 400V/3Ph	/ B	2" / 50mm	10	10	2.2	46	PZ/0301.002	1560
APN 400/2/G50H 400V/3Ph	/ C	2" / 50mm	10	10	3	68	PZ/0315.002	2000
APN 550/2/G50H 400V/3Ph	/ D	2" / 50mm	10	10	4.1	71	PZ/0317.002	2150
APP 750/2/G50H 400V/3Ph	/ E	2" / 50mm	10	10	7.2	90	PZ/0323.002	3280
APP 1000/2/G50H 400V/3Ph	/ F	2" / 50mm	12	10	10	96	PZ/0324.002	3480

Please note that a base stand is required with the APP and APN ranges, please see our accessories. The APN range is also available with an explosion-proof motor.



APF RANGE

ATEX EExd IIB T4

The APF range offers a series of pumps with high-head open multi-channel impellers for clean water, rainwater and seepage water and for sandy / muddy water containing small particles in suspension. APF models have an ATEX explosion-proof motor for potentially explosive atmospheres.

APPLICATIONS

- DOMESTIC & INDUSTRIAL
- FINAL EFFLUENT
- NUISANCE WATER
- AGRICULTURAL & FARMS
- IRRIGATION
- DE-WATERING

FEATURES

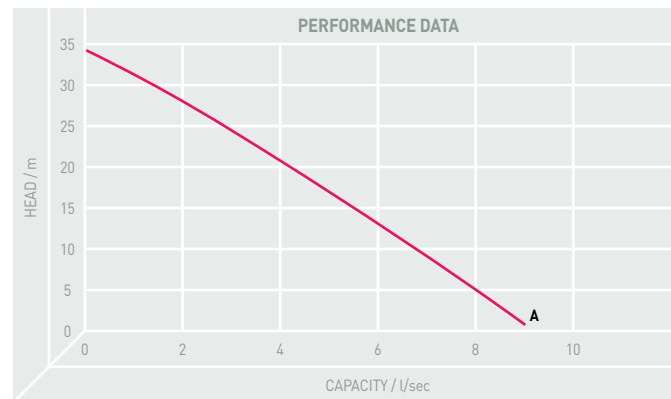
- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 10mm SOLIDS HANDLING
- 1.5kW OUTPUT
- 40mm DISCHARGE



IMPELLER



APF



PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
APF 200/2/G40H-EX 230V/1Ph	/ A	1 1/2" / 40mm	10 x 20	10	1.5	32	PZ/APF200/2/1	1220
APF 200/2/G40H-EX 400V/3Ph	/ A	1 1/2" / 40mm	10 x 20	10	1.5	32	PZ/APF200/2/3	1220



Please note that a base stand is required with the APF range, please see our accessories.



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SEWAGE
PUMPS
PUMPS
SEWAGE

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02

03

05

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09








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SEWAGE PRODUCTS INDEX

PUMP TYPE	MAX FLOW m ³ /h	MAX FLOW l/sec	MAX HEAD m	APPLICATIONS						PAGE
				 INDUSTRIAL	 WASTE WATER  DRAINAGE WATER	 SEWAGE & TREATMENT WORKS	 HOUSING ESTATE	 GENERAL EFFLUENTS	 DOMESTIC WASTE WATER	
DG BLUE PRO	39.6	11	15	✓	✓	✓	✓	✓	✓	04
DGO RANGE	46.8	13	16	✓	✓	✓	✓	✓	✓	05
DGX STAINLESS STEEL	46.8	13	15	✓	✓	✓	✓	✓	✓	06
DGF RANGE	61.2	17	14	✓	✓	✓	✓	✓	✓	07
MAI RANGE	25.2	7	15	✓	✓	✓	✓	✓	✓	08
SMI RANGE	57.6	16	17	✓	✓	✓	✓	✓	✓	09
DGN RANGE	108	30	19	✓	✓	✓	✓	✓	✓	10
MAN RANGE	154.8	43	30	✓	✓	✓	✓	✓	✓	11
SBP RANGE	720	200	33	✓	✓	✓	✓	✓	✓	12
DGP RANGE	252	70	18	✓	✓	✓	✓	✓	✓	13
SMP RANGE	612	170	40	✓	✓	✓	✓	✓	✓	14
SBN RANGE	1260	350	43	✓	✓	✓	✓	✓	✓	15
SMN RANGE	648	180	35	✓	✓	✓	✓	✓	✓	16
E-FLOW	378	105	29	✓	✓	✓	✓	✓	✓	17
V-FLOW	108	30	17	✓	✓	✓	✓	✓	✓	18
GR BLUE PRO	18	5	26	✓	✓	✓	✓	✓	✓	19
GRN / GRP GRINDER	28.8	8	54	✓	✓	✓	✓	✓	✓	20
GRF GRINDER	21.6	6	24	✓	✓	✓	✓	✓	✓	21
TT305 / TT505 / TT510	54	15	12	✓	✓	✓	✓	✓	✓	22
TT1008 / TT1409	162	45	16	✓	✓	✓	✓	✓	✓	23
PTS40	25.2	7	17	✓	✓	✓	✓	✓	✓	24
PTS80-150	342	95	45	✓	✓	✓	✓	✓	✓	25
SP RANGE	325	90	60	✓	✓	✓	✓	✓	✓	47

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INTRODUCTION

We have some 50+ years' experience in providing effluent and sewage pumps and systems. Over those years our portfolio of products has improved with innovation and technology.

We are pleased to introduce a further increase in our portfolio with the UNIQA® range which introduces high efficiency pumps with a huge leap in technology. Our comprehensive range of sewage pumps includes vortex, single channel, double channel, grinder, cutter and chopper pumps ends to cover all applications.

- **DG Blue Pro** - A cast iron pump for domestic and professional use
- **DGO Range** - Heavy duty cast iron submersible pump with vortex impeller
- **GRN Range** - Featuring multi-channel impellers and rotating cutter blades, this pump is suited to liquid featuring long fibres
- **MAN Range** - A pump with ability to cope with solids in liquids, with single channel impeller and a superior clog-free design
- **TT Range** - A pump featuring a shredding action, produced by the impeller rotating against a special serrated suction
- **DGN Range** - A heavy duty design, with excellent solids handling, featuring a multivane vortex impeller
- **PTS Range** - Heavy duty submersible chopper pump for the toughest of applications

NEW for 2013/14

- **Uniq Range** - A collection of high performance submersible pumps, combining efficiency and high performance. 4 - 200kW, 2 to 8 poles

APPLICATIONS

- Cellars & basements
- Final effluent
- Nuisance water
- Sewage & treatment works
- Construction
- Agriculture
- Food processing
- Industrial

FEATURES

- Heads up to 105m
- Flows up to 660l/s
- Motor sizes 0.37 - 200kW
- Solids handling up to 150mm
- Motor 2 to 8 pole
- Materials cast iron / stainless steel / Bronze



DG BLUE PROFESSIONAL

Designed for domestic and professional use, the DG Blue Pro range of sewage pumps is suitable for pumping water polluted with suspended solid particles. The cast iron Vortex impeller gives great performance in terms of flow rate and head, including integral free passage of up to 50mm.

APPLICATIONS

- CELLARS & BASEMENTS
- INDUSTRIAL SCHEMES
- FINAL EFFLUENT
- NUISANCE WATER
- HIRE FLEETS
- AGRICULTURE & FARMS
- SEWAGE & TREATMENT WORKS
- CIVIL CONSTRUCTION

FEATURES

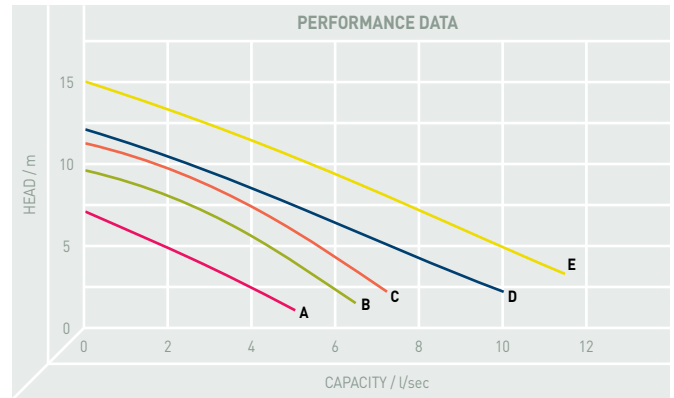
- CAST IRON CONSTRUCTION & IMPELLER
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- UP TO 50MM SOLIDS HANDLING
- 0.37 - 1.5kW OUTPUT
- 40 - 50mm DISCHARGE
- AUTOMATIC AS STANDARD
- OTHER MODELS AVAILABLE IN 110V BY REQUEST



VORTEX IMPELLER



DG BLUE PROFESSIONAL



	PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
01	DG BLUE PRO 50/2/G40 230V/1Ph	/ A	1 1/2" / 40mm	40	10	0.37	13	PZ/1082.005	310
02	DG BLUE PRO 50/2/G40 400V/3Ph	/ A	1 1/2" / 40mm	40	10	0.37	13	PZ/1084.004	310
03	DG BLUE PRO 75/2/G40 110V/1Ph	/ B	1 1/2" / 40mm	40	10	0.55	15	PZ/1086.011	330
	DG BLUE PRO 75/2/G40 230V/1Ph	/ B	1 1/2" / 40mm	40	10	0.55	15	PZ/1086.005	330
04	DG BLUE PRO 75/2/G40 400V/3Ph	/ B	1 1/2" / 40mm	40	10	0.55	15	PZ/1088.004	330
05	DG BLUE PRO 100/2/G40 230V/1Ph	/ C	1 1/2" / 40mm	40	10	0.74	15.5	PZ/1078.005	400
	DG BLUE PRO 100/2/G40 400V/3Ph	/ C	1 1/2" / 40mm	40	10	0.74	15.5	PZ/1079.004	400
06	DG BLUE PRO 150/2/G50 110V/1Ph	/ D	2" / 50mm	50	10	1.1	24	PZ/1102.006	505
	DG BLUE PRO 150/2/G50 230V/1Ph	/ D	2" / 50mm	50	10	1.1	24	PZ/1102.005	510
07	DG BLUE PRO 150/2/G50 400V/3Ph	/ D	2" / 50mm	50	10	1.1	24	PZ/1103.002	510
08	DG BLUE PRO 200/2/G50 230V/1Ph	/ E	2" / 50mm	50	10	1.5	25	PZ/1104.004	570
09	DG BLUE PRO 200/2/G50 400V/3Ph	/ E	2" / 50mm	50	10	1.5	25	PZ/1105.002	570

Please contact us for the best pump selection for your application.



DGO RANGES

These pumps are heavy-duty, cast-iron submersibles, fitted with Vortex impeller to allow good free passage and suitable for heavy polluted liquids, sewage and liquids containing fibrous material.

APPLICATIONS

- FINAL EFFLUENT
- NUISANCE WATER
- AGRICULTURE & FARMS
- SEWAGE & TREATMENT WORKS
- CIVIL CONSTRUCTION
- EMERGENCIES
- HOUSING

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 40 - 80mm SOLIDS HANDLING
- 0.37 - 1.7kW OUTPUT
- 50 - 80mm DISCHARGE
- AUTO-COUPLING AVAILABLE

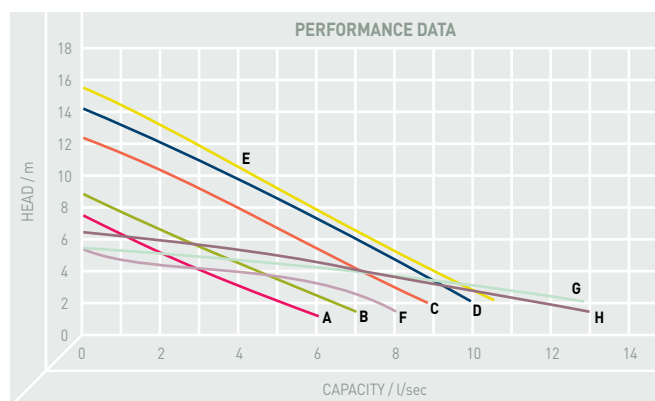
*Complete with capacitor box.



VORTEX IMPELLER



DGO



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
DGO 50/2/G50H 230V/1Ph*	/ A	2" / 50mm	40	10	0.37	16.5	PZ/0970.011	355
DGO 50/2/G50H 400V/3Ph	/ A	2" / 50mm	40	10	0.37	16.5	PZ/0971.004	355
DGO 75/2/G50H 230V/1Ph	/ B	2" / 50mm	50	10	0.55	17	PZ/0970.012	420
DGO 75/2/G50H 400V/3Ph	/ B	2" / 50mm	50	10	0.55	17	PZ/0973.007	420
DGO 100/2/G50H 230V/1Ph*	/ C	2" / 50mm	50	10	0.88	19.5	PZ/DGO100H/2/1	590
DGO 100/2/G50H 400V/3Ph	/ C	2" / 50mm	50	10	0.88	19.5	PZ/DGO100H/2/3	590
DGO 150/2/G50H 230V/1Ph*	/ D	2" / 50mm	50	10	1.1	20.5	PZ/DGO150H/2/1	670
DGO 150/2/G50H 400V/3Ph	/ D	2" / 50mm	50	10	1.1	20.5	PZ/DGO150H/2/3	670
DGO 200/2/G50H 230V/1Ph*	/ E	2" / 50mm	50	10	1.5	21.5	PZ/DGO200M/1	710
DGO 200/2/G50H 400V/3Ph	/ E	2" / 50mm	50	10	1.5	21.5	PZ/DGO200T/3	710
DGO 100/4/G50H 230V/1Ph*	/ F	2" / 50mm	50	10	0.63	19	PZ/DGO100H/4/1	660
DGO 100/4/G50H 400V/3Ph	/ F	2" / 50mm	50	10	0.63	19	PZ/0482.007	660
DGO 150/4/80 230V/1Ph*	/ G	3" / 80mm	60	10	0.9	29	PZ/DGO150M/2	780
DGO 150/4/80 400V/3Ph	/ G	3" / 80mm	60	10	0.9	29	PZ/DGO150H/4/3	780
DGO 200/2/80 230V/1Ph*	/ H	3" / 80mm	80	10	1.7	26	PZ/DGO200/80/1	840
DGO 200/2/80 400V/3Ph	/ H	3" / 80mm	80	10	1.7	26	PZ/DGO200/80/3	840



Please see the DGF range for the same pumps with explosion proof motors.

DGX RANGES OF STAINLESS STEEL

Excellent corrosion resistance, this range of sewage pumps is designed for domestic and professional use, suitable for treatment of water polluted with suspended solid particles.

The stainless steel Vortex impeller gives great performance in terms of flow rate and head, including integral free passage of up to 50mm.

APPLICATIONS

- CELLARS & BASEMENTS
- FINAL EFFLUENT
- NUISANCE WATER
- MARINE APPLICATIONS
- SEA WATER
- CHEMICALS
- SEWAGE & TREATMENT WORKS
- CIVIL CONSTRUCTION

FEATURES

- 316 CAST STAINLESS STEEL CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 38mm SOLIDS HANDLING
- 0.37 - 1.5kW OUTPUT
- 50mm DISCHARGE

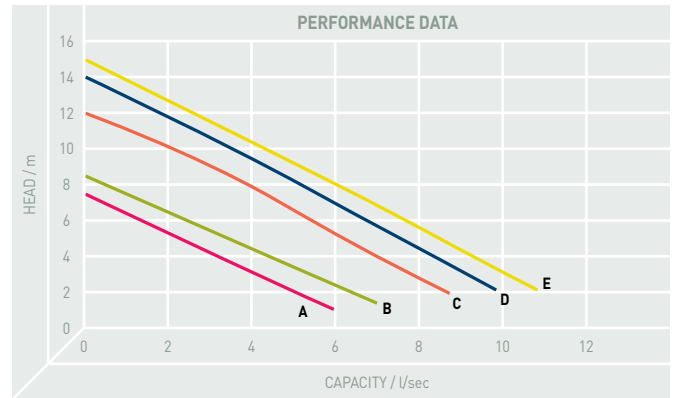
CORROSION BEATER



VORTEX IMPELLER



DGX STAINLESS STEEL



	PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
01	DGX 50/2/G50V 230V/1Ph	/ A	2" / 50mm	38	10	0.37	18	PZ/0188.001	1340
02	DGX 50/2/G50V 400V/3Ph	/ A	2" / 50mm	38	10	0.37	18	PZ/0189.001	1340
03	DGX 75/2/G50V 230V/1Ph	/ B	2" / 50mm	38	10	0.55	18	PZ/0190.001	1610
	DGX 75/2/G50V 400V/3Ph	/ B	2" / 50mm	38	10	0.55	18	PZ/0191.001	1610
04	DGX 100/2/G50V 230V/1Ph	/ C	2" / 50mm	38	10	0.88	22	PZ/0192.001	1950
05	DGX 100/2/G50V 400V/3Ph	/ C	2" / 50mm	38	10	0.88	22	PZ/DGX100T/3	1950
06	DGX 150/2/G50V 230V/1Ph	/ D	2" / 50mm	38	10	1.1	23	PZ/0196.001	2350
07	DGX 150/2/G50V 400V/3Ph	/ D	2" / 50mm	38	10	1.1	23	PZ/0197.001	2350
08	DGX 200/2/G50V 230V/1Ph	/ E	2" / 50mm	38	10	1.5	22	PZ/0200.001	2520
09	DGX 200/2/G50V 400V/3Ph	/ E	2" / 50mm	38	10	1.5	22	PZ/0201.001	2520

For the same pump in Bronze please see the DGB range. Please consult our sales team for compatibility of corrosive materials to the pumps being selected.



DGF RANGE

ATEX EExd IIB T4

These pumps are heavy-duty, cast-iron submersibles, fitted with Vortex impeller to allow free passage and suitable for heavily polluted liquids, sewage and liquids containing fibrous material. DGF models use an explosion-proof motor ATEX (EExd IIB T4) enabling installation in potentially explosive atmospheres.

APPLICATIONS

- CELLARS & BASEMENTS
- FINAL EFFLUENT
- NUISANCE WATER
- AGRICULTURE & FARMS
- CHEMICALS
- SEWAGE & TREATMENT WORKS
- CIVIL CONSTRUCTION
- EMERGENCIES
- HOUSING

FEATURES

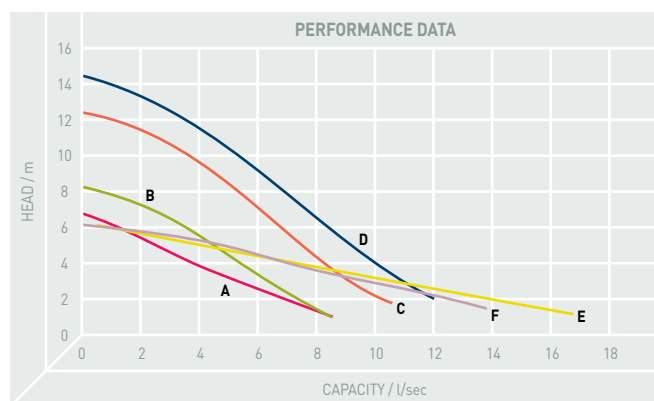
- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 50 - 80mm SOLIDS HANDLING
- 0.55 - 1.5kW OUTPUT
- 50 - 80mm DISCHARGE
- AUTO-COUPLING AVAILABLE



VORTEX IMPELLER



DGF



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	KW	WEIGHT kg	CODE	PRICE £
DGF 75/2/G50H 230V/1Ph	/ A	2" / 50mm	50	10	0.55	28	PZ/DGF75/2/1	1040
DGF 75/2/G50H 400V/3Ph	/ A	2" / 50mm	50	10	0.55	28	PZ/DGF75/2/3	1040
DGF 100/2/G50H 230V/1Ph	/ B	2" / 50mm	50	10	0.8	29	PZ/DGF100/2/1	1080
DGF 100/2/G50H 400V/3Ph	/ B	2" / 50mm	50	10	0.88	29	PZ/DGF100/2/3	1080
DGF 150/2/G50H 230V/1Ph	/ C	2" / 50mm	50	10	1.1	31	PZ/DGF150/2/1	1190
DGF 150/2/G50H 400V/3Ph	/ C	2" / 50mm	50	10	1.1	31	PZ/DGF150/2/3	1190
DGF 200/2/G50H 230V/1Ph	/ D	2" / 50mm	50	10	1.5	32	PZ/DGF200/2/1	1240
DGF 200/2/G50H 400V/3Ph	/ D	2" / 50mm	50	10	1.5	32	PZ/DGF200/2/3	1240
DGF 100/4/80H 400V/3Ph	/ E	3" / 80mm	80	10	0.74	41	PZ/DGF100/4/80H	1430
DGF 200/2/80H 230V/1Ph	/ F	3" / 80mm	80	10	1.5	35	PZ/DGF200/2/80H/1	1360
DGF 200/2/80H 400V/3Ph	/ F	3" / 80mm	80	10	1.5	35	PZ/DGF200/2/80H	1360



For the same pump without the explosion-proof motor, please see our DGO Range.

MAI RANGE

The MAI range of pumps are for applications requiring maximum ability to cope with solids in liquids, combined with best possible efficiency in pumping performance. This series uses a specially shaped open single channel impeller rotating within a tapered suction cover, a combination providing superior anti-clog characteristics for trouble free operation.

APPLICATIONS

- SEWAGE PUMPING STATION
- FOOD PROCESSING
- INDUSTRIAL
- FINAL EFFLUENT
- SEWAGE & TREATMENT WATER
- CIVIL CONSTRUCTION
- DE-WATERING

FEATURES

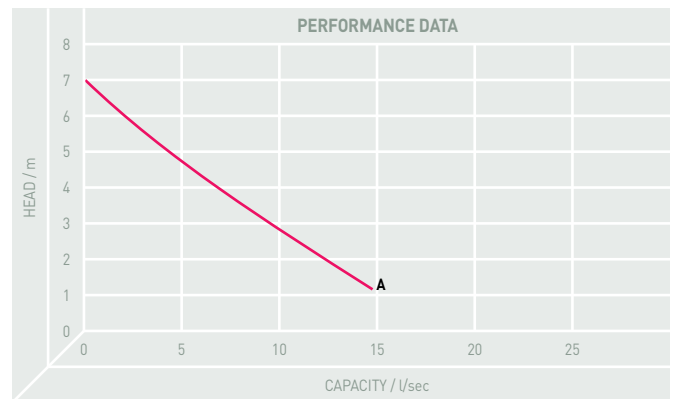
- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 58 x 70mm SOLIDS HANDLING
- 0.74kW OUTPUT
- 80mm DISCHARGE
- AUTOMATIC VERSION AVAILABLE UPON REQUEST
- AUTO-COUPLING AVAILABLE



IMPELLER



MAI



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
MAI 100/4/80 230V/1Ph	/ A	3" / 80mm	58 x 70	10	0.74	42	PZ/0352.005	1100
MAI 100/4/80 400V/3Ph	/ A	3" / 80mm	58 x 70	10	0.74	42	PZ/0326.005	1100

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SMI RANGE

SMI submersible pumps are designed for industrial use, and are scaled for heavy duty use to guarantee ongoing high performance and quality.

This range has a closed single channel impeller, dry motor and double mechanical seals.

APPLICATIONS

- CONSTRUCTION & HOUSING DEVELOPMENTS
- FOOD PROCESSING
- INDUSTRIAL USE
- EFFLUENT
- SEWAGE & TREATMENT WATER
- CIVIL CONSTRUCTION
- HOUSING
- DE-WATERING

FEATURES

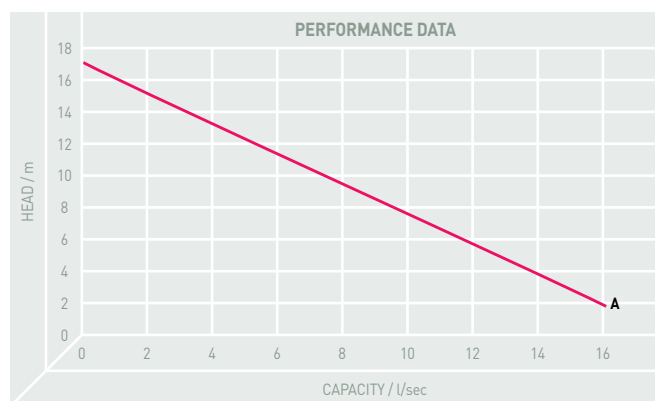
- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEALS WITHIN OIL BATH
- 50mm SOLIDS HANDLING
- 1.5kW OUTPUT
- 50 - 80mm DISCHARGE**
- AUTOMATIC & MANUAL VERSIONS



IMPELLER



SMI



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
SMI 200/2/80H-M 230V/1Ph	/A	2" / 50mm BSP 3" / 80mm FLANGE**	50	10	1.5	38	PZ/0389.006	930
SMI 200/2/80H-M 230V/1Ph*	/A	2" / 50mm BSP 3" / 80mm FLANGE**	50	10	1.5	38	PZ/0389.005	950
SMI 200/2/80H-T 400V/3Ph	/A	2" / 50mm BSP 3" / 80mm FLANGE**	50	10	1.5	38	PZ/0390.008	930

*Automatic version.

**2" horizontal BSP threaded and 80mm PN10 flanged connection.



Please see our selection of BBA approved Package Pumping Stations.

DGN RANGE

DGN pumps are fitted with multi-vane Vortex impellers for good solids handling up to 100mm diameter, and free passage of fibrous materials.

These models are intended for rigorous applications requiring heavy-duty cast iron construction and multiple mechanical seal motor protection to achieve long life. DGN offers models in 2-pole and 4-pole dry motor specification with double mechanical seals. DGN-EX are supplied with EExd motors, permitting installation in potentially hazardous explosive atmospheres.

APPLICATIONS

- CONSTRUCTION & HOUSING DEVELOPMENTS
- FOOD PROCESSING
- INDUSTRIAL USE
- NUISANCE WATER
- AGRICULTURAL & FARMS
- SEWAGE & TREATMENT WATER
- CIVIL CONSTRUCTION
- HOUSING
- DE-WATERING

FEATURES

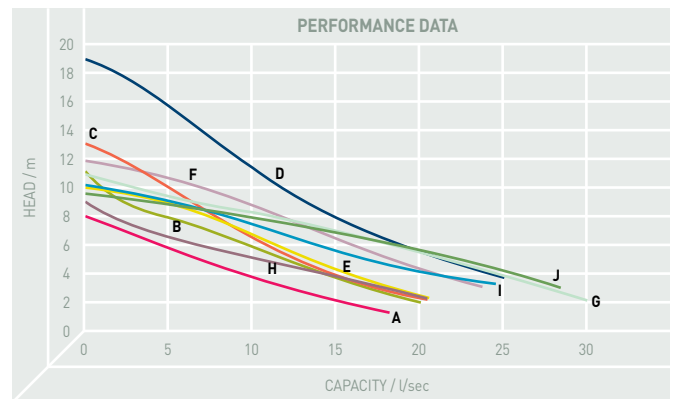
- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 80 - 100mm SOLIDS HANDLING
- 1.5 - 4.1kW OUTPUT
- 80 - 100mm DISCHARGE
- AUTO-COUPLING AVAILABLE



VORTEX IMPELLER



DGN



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
DGN 250/2/80 230V/1Ph	/ A	3" / 80mm	80	10	1.8	51	PZ/0594.008	1260
DGN 250/2/80 400V/3Ph	/ A	3" / 80mm	80	10	1.8	53	PZ/0577.008	1320
DGN 300/2/80 400V/3Ph	/ B	3" / 80mm	80	10	2.2	50	PZ/0509.001	1480
DGN 400/2/80 400V/3Ph	/ C	3" / 80mm	80	10	3	75	PZ/0513.003	1820
DGN 550/2/80 400V/3Ph	/ D	3" / 80mm	80	10	4.1	79	PZ/0517.002	1940
DGN 200/4/80 400V/3Ph	/ E	3" / 80mm	80	10	1.5	64	PZ/0519.003	1520
DGN 300/4/80 400V/3Ph	/ F	3" / 80mm	80	10	2.2	79	PZ/0228.001	1960
DGN 400/4/80 400V/3Ph	/ G	3" / 80mm	80	10	3	83	PZ/0232.001	2100
DGN 200/4/100 400V/3Ph	/ H	4" / 100mm	100	10	1.5	66	PZ/0521.022	1540
DGN 300/4/100 400V/3Ph	/ I	4" / 100mm	100	10	2.2	81	PZ/0525.007	1980
DGN 400/4/100 400V/3Ph	/ J	4" / 100mm	100	10	3	85	PZ/DGN400/100/3	2140

For the same pump with a 4-pole oil filled motor and a triple mechanical seal arrangement see the DGP range.



MAN RANGE

The MAN range of pumps are for applications requiring maximum ability to cope with solids in liquids, combined with best possible efficiency in pumping performance.

This series uses a specially shaped open single channel impeller rotating within a tapered suction cover, a combination providing superior anti-clog characteristics for trouble free operation. MAN models have a sturdy cast iron construction with twin-seals.

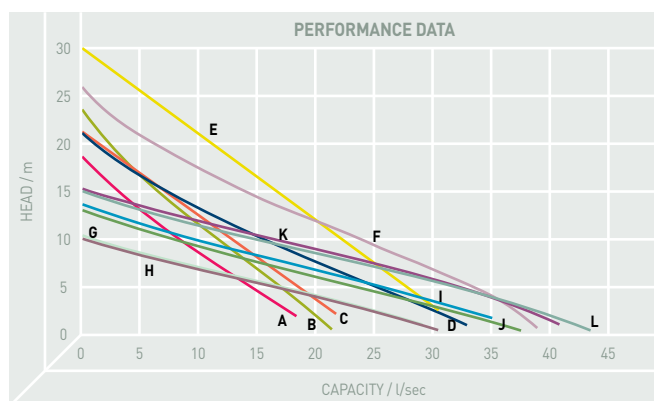
MAN-EX types are supplied with EExd motors, permitting installation in potentially hazardous explosive atmospheres.

APPLICATIONS

- SEWAGE PUMPING STATION
- FOOD PROCESSING
- INDUSTRIAL
- AGRICULTURE & FARMS
- SEWAGE & TREATMENT
- HOUSING

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 40 - 80mm SOLIDS HANDLING
- 1.5 - 4.1kW OUTPUT
- 80 - 100mm DISCHARGE
- EXPLOSION-PROOF VERSION AVAILABLE UPON REQUEST
- AUTO-COUPLING AVAILABLE



*2-pole motor. **4-pole motor.

PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
MAN 250/2/80H 230V/1Ph*	/ A	3" / 80mm	40	10	1.8	56	PZ/MAN250/2/1	1340
MAN 300/2/80H 400V/3Ph*	/ B	3" / 80mm	40	10	2.2	58	PZ/MAN300/2/3	1480
MAN 400/2/80H 400V/3Ph*	/ C	3" / 80mm	50	10	3	74	PZ/0559.007	1830
MAN 400/2/100H 400V/3Ph*	/ D	4" / 100mm	50	10	3	82	PZ/MAN400/2/3	1850
MAN 550/2/80H 400V/3Ph*	/ E	3" / 80mm	50	10	4.1	77	PZ/0562.007	1960
MAN 550/2/100H 400V/3Ph*	/ F	4" / 100mm	55	10	4.1	85	PZ/MAN550/2/3	1980
MAN 200/4/80H 400V/3Ph**	/ G	3" / 80mm	80	10	1.5	66	PZ/0564.003	1530
MAN 200/4/100H 400V/3Ph**	/ H	4" / 100mm	80	10	1.5	68	PZ/565.002	1550
MAN 300/4/80H 400V/3Ph**	/ I	3" / 80mm	80	10	2.2	86	PZ/0566.005	1920
MAN 300/4/100H 400V/3Ph**	/ J	4" / 100mm	80	10	2.2	88	PZ/0567.004	1960
MAN 400/4/80H 400V/3Ph**	/ K	3" / 80mm	80	10	3	89	PZ/MAN400/4/3	2100
MAN 400/4/100H 400V/3Ph**	/ L	4" / 100mm	80	10	3	91	PZ/0569.002	2140



Please note that a stand is required with MAN range pumps, please see our accessories section for further details.

SBP RANGE

SBP submersible pumps feature a closed two-channel hydraulic system offering high performance and low consumption of energy with guaranteed durability and dependability. Cast iron assembly, for submersible operation (and dry operation with jacket). These pumps are supplied fitted with triple mechanical seals, installed in series in an oil chamber. Oil-filled motor.

APPLICATIONS

- CONSTRUCTION & HOUSING DEVELOPMENTS
- FOOD PROCESSING
- LARGE WATER FEATURES
- INDUSTRIAL PROCESSING
- AGRICULTURE & FARMS
- SEWAGE & TREATMENT WATER
- CIVIL CONSTRUCTION
- DE-WATERING

FEATURES

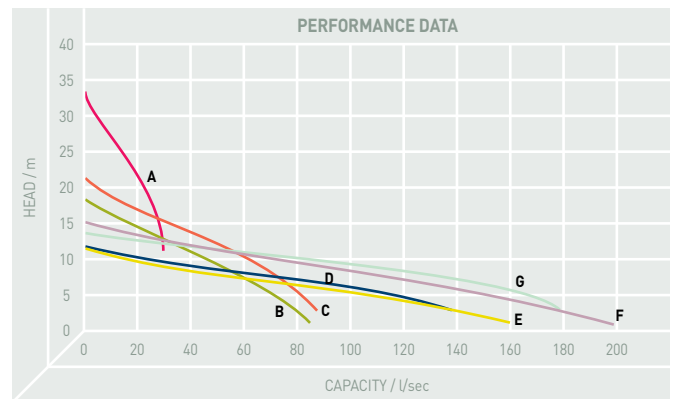
- CAST IRON CONSTRUCTION
- TRIPLE MECHANICAL SEAL WITHIN OIL BATH
- 36mm+ SOLIDS HANDLING
- 6.5 - 12.3kW OUTPUT
- 80 - 250mm DISCHARGE
- AUTO-COUPLING AVAILABLE UPON REQUEST



IMPELLER



SBP



	PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
01	SBP750/2/80H AOHT-E 400V/3Ph	/ A	3" / 80mm	36	10	7.2	103	PZ/0430.002	3290
02	SBP750/4/150H AOHT-E 400V/3Ph	/ B	6" / 150mm	70	10	6.5	135	PZ/0431.002	4350
03	SBP1000/4/150H AOHT-E 400V/3Ph	/ C	6" / 150mm	70	10	8.9	151	PZ/0432.002	5450
04	SBP1000/6/200H AOIT-E 400V/3Ph	/ D	8" / 200mm	100	10	8.4	215	PZ/0435.002	7400
05	SBP1000/6/250H AOIT-E 400V/3Ph	/ E	10" / 250mm	100	10	8.4	223	PZ/0436.002	7800
06	SBP1500/6/200H AOIT-E 400V/3Ph	/ F	8" / 200mm	105 x 140	10	12.3	245	PZ/0437.002	7900
07	SBP1500/6/250H AOIT-E 400V/3Ph	/ G	10" / 250mm	105 x 140	10	12.3	253	PZ/0438.002	8130

DGP RANGE

DGP pumps are fitted with multi-vane vortex impellers for good solids handling and free passage of fibrous materials. The DGP has 4-pole oil-filled motors and a triple mechanical seal arrangement.

APPLICATIONS

- CONSTRUCTION & HOUSING DEVELOPMENTS
- FOOD PROCESSING
- INDUSTRIAL
- NUISANCE WATER
- AGRICULTURE & FARMS
- SEWAGE & TREATMENT
- CIVIL CONSTRUCTION
- DE-WATERING

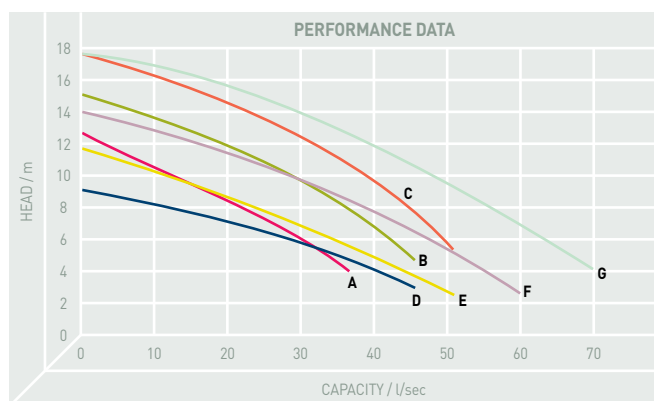
FEATURES

- CAST IRON CONSTRUCTION
- TRIPLE MECHANICAL SEAL WITHIN OIL BATH
- 60 - 85mm SOLIDS HANDLING
- 4.6 - 13.6kW OUTPUT
- 80 - 100mm DISCHARGE
- AUTO-COUPLING AVAILABLE



VORTEX IMPELLER

DGP



PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
DGP550/4/80 400V/3Ph	/ A	3" / 80mm	60	10	4.6	81	PZ/0266.003	2510
DGP750/4/80 400V/3Ph	/ B	3" / 80mm	68	10	6.5	122	PZ/0268.002	3160
DGP1000/4/80 400V/3Ph	/ C	3" / 80mm	70	10	8.9	130	PZ/0270.002	3510
DGP550/4/100 400V/3Ph	/ D	4" / 100mm	70	10	4.6	84	PZ/0267.004	2630
DGP750/4/100 400V/3Ph	/ E	4" / 100mm	85	10	6.5	115	PZ/DGP750/100/3	3490
DGP1000/4/100 400V/3Ph	/ F	4" / 100mm	85	10	8.9	125	PZ/0271.002	3880
DGP1500/4/100 400V/3Ph	/ G	4" / 100mm	80	10	13.6	165	PZ/0273.002	4950



Please see other models within the DG range for further choice of submersible sewage pumps.

SMP RANGE

SMP submersible pumps are designed for industrial use, and are heavy duty to guarantee ongoing high performance and quality. Submersible pumps with closed single channel impeller and cast iron electro-mechanical assembly, for submersible operation (and dry operation with jacket). This range is supplied with triple mechanical seals installed in series in an oil chamber. Oil-filled motor.

APPLICATIONS

- CONSTRUCTION & HOUSING DEVELOPMENTS
- LARGE WATER FEATURES
- INDUSTRIAL PROCESSING
- AGRICULTURE & FARMS
- SEWAGE & TREATMENT WATER
- CIVIL CONSTRUCTION
- DE-WATERING

FEATURES

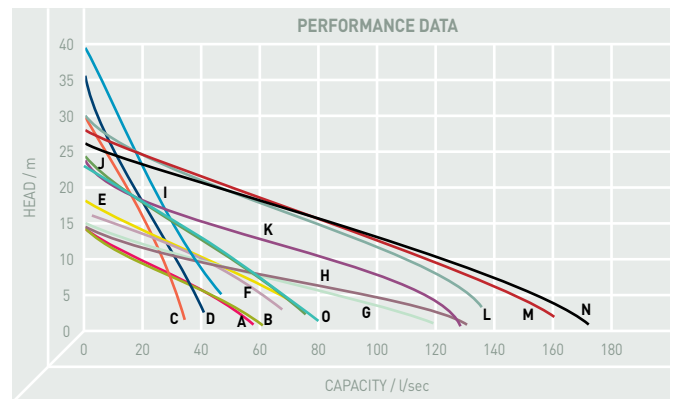
- CAST IRON CONSTRUCTION
- TRIPLE MECHANICAL SEAL WITHIN OIL BATH
- GOOD SOLIDS HANDLING
- 3 - 16.4kW OUTPUT
- 80 - 250mm DISCHARGE



IMPELLER



SMP



	PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
01	SMP550/2/80H AOHT-E 400V/3Ph	/ C	3" / 80mm	53	10	4.9	73	PZ/0397.003	2540
	SMP750/2/80H AOHT-E 400V/3Ph	/ D	3" / 80mm	55 x 65	10	7.2	76	PZ/0398.002	3170
02	SMP1000/2/80H AOHT-E 400V/3Ph	/ I	3" / 80mm	55 x 65	10	10	110	PZ/0399.002	3450
	SMP400/4/100H AOFT-E 400V/3Ph	/ A	4" / 100mm	75 x 100	10	3	81	PZ/0400.007	3290
03	SMP750/4/100H AOHT-E 400V/3Ph	/ E	4" / 100mm	80 x 100	10	6.5	132	PZ/0402.002	3850
	SMP1000/4/100H AOFT-E 400V/3Ph	/ J	4" / 100mm	80	10	8.9	141	PZ/0404.002	5110
04	SMP400/4/150H AOFT-E 400V/3Ph	/ B	6" / 150mm	75 x 100	10	3	88	PZ/0401.006	3450
	SMP750/4/150H AOHT-E 400V/3Ph	/ F	6" / 150mm	80 x 100	10	6.5	140	PZ/0403.002	4050
05	SMP1000/4/150H AOHT-E 400V/3Ph	/ O	6" / 150mm	80 x 100	10	8.9	150	PZ/0405.002	-
06	SMP1500/4/150H AOIT-E 400V/3Ph	/ K	6" / 150mm	100 x 130	10	13.6	206	PZ/0406.002	7280
	SMP2000/4/150H AOIT-E 400V/3Ph	/ L	6" / 150mm	100 x 130	10	16.4	220	PZ/0407.002	7940
07	SMP2000/4/200H AOIT-E 400V/3Ph	/ M	8" / 200mm	100 x 130	10	16.4	221	PZ/0408.002	8190
	SMP2000/4/250H AOIT-E 400V/3Ph	/ N	10" / 250mm	100 x 130	10	16.4	229	PZ/0409.002	8540
08	SMP750/6/200H AOHT-E 400V/3Ph	/ G	8" / 200mm	100 x 130	10	6.1	190	PZ/0410.002	5670
09	SMP750/6/250H AOHT-E 400V/3Ph	/ H	10" / 250mm	100 x 130	10	6.1	198	PZ/0411.002	5980

SBN RANGE

SBN submersible pumps feature a closed two-channel hydraulic system offering high performance and low consumption of energy with guaranteed durability and dependability.

The SBN range have a cast iron assembly, for submersible operation (and dry operation with jacket). These pumps are supplied fitted with double mechanical seals and 1 lip seal installed in series in an inspectable oil chamber. Ecological dry motor.

APPLICATIONS

- DRAINAGE SCHEMES
- FLOOD CONTROL
- SEWAGE WORKS

FEATURES

- ROBUST, CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 150 - 300mm DISCHARGE
- 18.5 - 37kW OUTPUT
- AUTO-COUPLING AVAILABLE
- COOLING JACKET AVAILABLE



IMPELLER

SBN



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
SBN3000/4/150 A1LT-E 400V/3Ph	/ A	6" / 150mm	82 x 90	10	22	385	PZ/0412.001	11945
SBN4000/4/150 A1LT-E 400V/3Ph	/ B	6" / 150mm	82 x 90	10	30	410	PZ/0416.001	14400
SBN5000/4/150 A1LT-E 400V/3Ph	/ C	6" / 150mm	82 x 90	10	37	423	PZ/0421.001	16850
SBN3000/4/200 A1LT-E 400V/3Ph	/ D	8" / 200mm	105 x 140	10	22	385	PZ/0414.001	12145
SBN3000/4/250 A1LT-E 400V/3Ph	/ E	10" / 250mm	105 x 140	10	22	393	PZ/0415.001	12415
SBN4000/4/200 A1LT-E 400V/3Ph	/ F	8" / 200mm	105 x 140	10	30	410	PZ/0419.001	14900
SBN4000/4/250 A1LT-E 400V/3Ph	/ G	10" / 250mm	105 x 140	10	30	418	PZ/0420.001	14800
SBN5000/4/200 A1LT-E 400V/3Ph	/ H	8" / 200mm	105 x 140	10	37	423	PZ/0425.001	16950
SBN5000/4/250 A1LT-E 400V/3Ph	/ I	10" / 250mm	105 x 140	10	37	431	PZ/0426.001	17550
SBN2500/6/250 A2LT-E 400V/3Ph	/ J	10" / 250mm	130	10	18.5	480	PZ/SBN2500/6/250	17900
SBN2500/6/300 A1LT-E 400V/3Ph	/ K	12" / 300mm	130	10	18.5	520	PZ/SBN2500/6/300	18400
SBN3000/6/250 A2LT-E 400V/3Ph	/ L	10" / 250mm	130	10	22	520	PZ/SBN3000/6/250	20800
SBN3000/6/300 A1LT-E 400V/3Ph	/ M	12" / 300mm	130	10	22	540	PZ/SBN3000/6/300	21300



Please call our Sales Team on if you have any questions about this pump range or associated accessories.

SMN RANGE

SMN submersible pumps are designed for industrial use, and are scaled for heavy duty use to guarantee ongoing high performance and quality.

Electric pumps with closed single channel impeller and EN-GJL-250 cast iron assembly, for submersible operation (and dry operation with jacket). Supplied fitted with 2 mechanical seals and 1 lip seal installed in series in an inspectable oil chamber. Ecological dry motor.

APPLICATIONS

- CONSTRUCTION & HOUSING DEVELOPMENTS
- FOOD PROCESSING
- LARGE WATER FEATURES
- INDUSTRIAL
- SEWAGE & TREATMENT WORKS
- CIVIL CONSTRUCTION
- DE-WATERING
- HOUSING

FEATURES

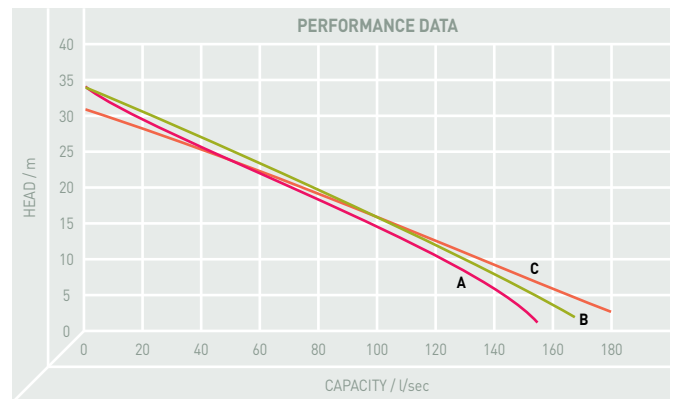
- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 100 x 130mm SOLIDS HANDLING
- 22kW OUTPUT
- 150 - 250mm DISCHARGE
- OIL SEAL LEAK SENSOR ON REQUEST
- AUTO-COUPLING AVAILABLE ON REQUEST



IMPELLER



SMN



	PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
01	SMN 3000/4/150 A1LT-E 400V/3Ph	/ A	6" / 150mm	100 x 130	10	22	392	PZ/0394.001	11490
02	SMN 3000/4/200 A1LT-E 400V/3Ph	/ B	8" / 200mm	100 x 130	10	22	393	PZ/0395.001	11860
03	SMN 3000/4/250 A1LT-E 400V/3Ph	/ C	10" / 250mm	100 x 130	10	22	402	PZ/0396.001	12250

Please note that a base stand is required with the SMN range.



E-FLOW RANGE

ATEX EExd IIB T4

The E-Flow series is a range of submersible sewage pumps with a single-channel impeller and explosion proof motors as standard (suitable for use in Zone 1 - hazardous gas areas).

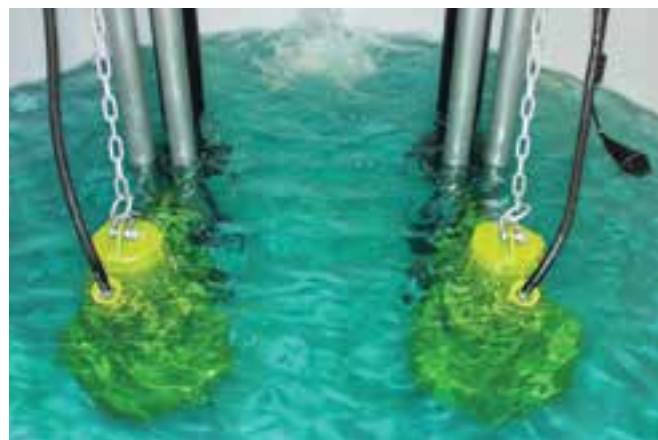
These pumps are ideal for pumping water and other liquids, with uses in sewage, effluent and drainage pumping. The E-Flow series is available with a selection of motor / impeller combinations, enabling flexibility to match specific application and performance requirements.

APPLICATIONS

- ADOPTABLE PUMPING STATION
- INDUSTRIAL PROCESSING
- SEWAGE & TREATMENT
- HOUSING



IMPELLER

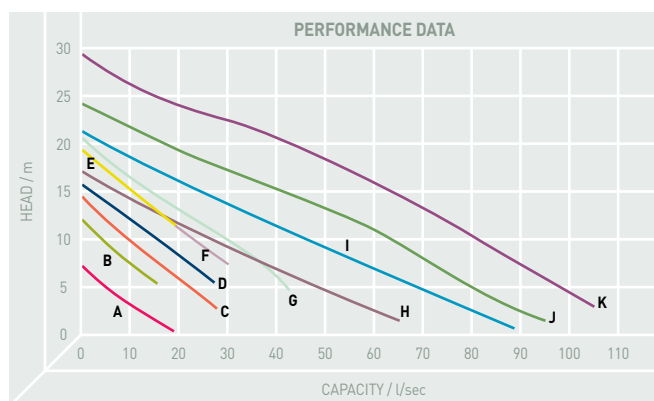


FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 76 - 105mm SOLIDS HANDLING
- 2.2 - 18.5kW OUTPUT
- 100 - 150mm DISCHARGE
- AUTO-COUPLING AVAILABLE
- OIL SEAL LEAK SENSOR ON REQUEST



E-FLOW



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
E100-2.2-1 400V/3Ph	/ A	4" / 100mm	76	20	2.2	112	PB/E100-2.2-1	3200
E100-2.2-2 400V/3Ph	/ B	4" / 100mm	76	20	2.2	112	PB/E100-2.2-2	3200
E100-4.0-3 ASD 400V/3Ph	/ C	4" / 100mm	76	20	4.0	139	PB/E100-4.0-3	3600
E100-4.0-4 ASD 400V/3Ph	/ D	4" / 100mm	76	20	4.0	139	PB/E100-4.0-4	3600
E100-4.0-5 ASD 400V/3Ph	/ E	4" / 100mm	76	20	4.0	139	PB/E100-4.0-5	3600
E100-5.5-5 ASD 400V/3Ph	/ F	4" / 100mm	76	20	5.5	141	PB/E100-5.5-5	3800
E100-5.5-6 ASD 400V/3Ph	/ G	4" / 100mm	76	20	5.5	141	PB/E100-5.5-6	3800
E150-7.5-2 ASD 400V/3Ph	/ H	6" / 150mm	105	20	7.5	217	PB/E150-7.5-2	4950
E150-11-3 ASD 400V/3Ph	/ I	6" / 150mm	105	20	11	287	PB/E150-11-3	6400
E150-15-4 ASD 400V/3Ph	/ J	6" / 150mm	105	20	15	322	PB/E150-15-4	7200
E150-18-5 ASD 400V/3Ph	/ K	6" / 150mm	105	20	18.5	345	PB/E150-18-5	7800



Handy Hint! Look at the V-Flow range for the same pump with a Vortex-type impeller.

DESIGNED IN THE UK

V-FLOW

The V-Flow series is a range of submersible sewage pumps with a Vortex-type impeller for excellent solids passage, avoidance of blockage and ability to handle fibrous material.

These pumps also incorporate an explosion proof motor as standard (suitable for use in Zone 1 - hazardous gas areas). V-Flow pumps are ideal for pumping water and other liquids, with uses in sewage, effluent and drainage pumping.

The V-Flow series is available with a selection of motor / impeller combinations, enabling flexibility to match specific application and performance requirements.

APPLICATIONS

- ADOPTABLE PUMPING STATIONS
- INDUSTRIAL PROCESSING
- SEWAGE & TREATMENT

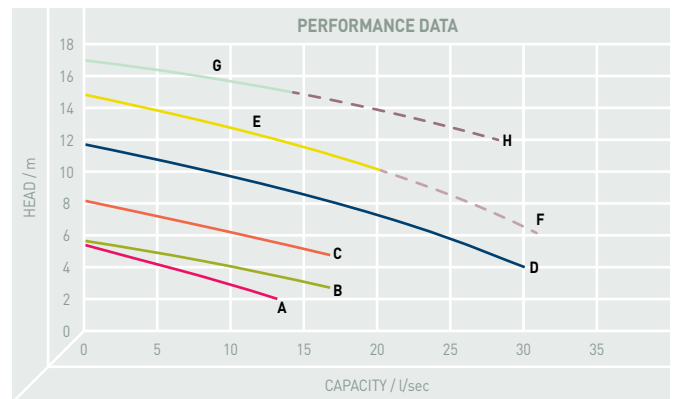
FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 100mm SOLIDS HANDLING
- 1.5 - 7.5kW OUTPUT
- 100mm DISCHARGE
- AUTO-COUPLING AVAILABLE
- SEAL LEAK AVAILABLE ON REQUEST



VORTEX IMPELLER

V-FLOW (ON AUTO-COUPLING)



	PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
01	V100-1.5-1 400V/3Ph	/ A	4" / 100mm	100	20	1.5	113	PB/V100-1.5-1	2300
02	V100-2.2-1 400V/3Ph	/ B	4" / 100mm	100	20	2.2	116	PB/V100-2.2-1	2450
03	V100-2.2-2 400V/3Ph	/ C	4" / 100mm	100	20	2.2	116	PB/V100-2.2-2	2450
04	V100-4.0-3 ASD 400V/3Ph	/ D	4" / 100mm	100	20	4.0	142	PB/V100-4.0-3	2600
05	V100-4.0-4 ASD 400V/3Ph	/ E	4" / 100mm	100	20	4.0	142	PB/V100-4.0-4	2600
06	V100-5.5-4 ASD 400V/3Ph	/ F	4" / 100mm	100	20	5.5	144	PB/V100-5.5-4	2800
07	V100-5.5-5 ASD 400V/3Ph	/ G	4" / 100mm	100	20	5.5	144	PB/V100-5.5-5	2800
08	V100-7.5-5 ASD 400V/3Ph	/ H	4" / 100mm	100	20	7.5	165	PB/V100-7.5-5	3300

GR BLUE PROFESSIONAL

Designed for domestic and professional use, the GR Blue Pro range of submersible pumps with high-head cast iron impeller and cutter, boasts an impressive 69,000 cuts per minute.

The GR Blue Pro models are equipped with an intake cutting system composed of a steel plate and triple-bladed rotary cutter. This system cuts fibres and stringy bodies and assures smooth pump function.

APPLICATIONS

- INDUSTRIAL SCHEMES
- AGRICULTURE & FARMS
- SEWAGE & TREATMENT WORKS
- IRRIGATION

FEATURES

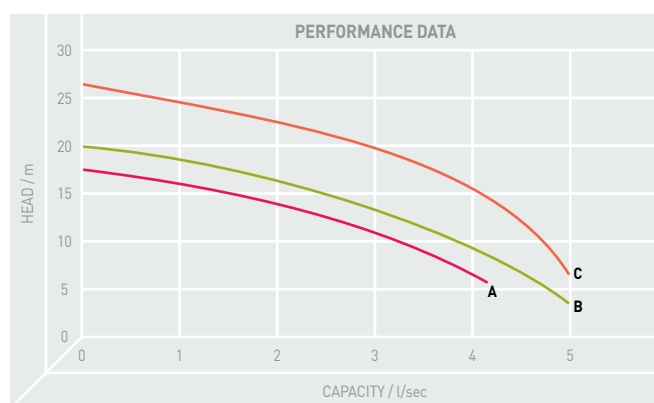
- CAST IRON CONSTRUCTION & IMPELLER
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 0.74 - 1.5kW OUTPUT
- 69,000 CUTS PER MINUTE
- 7mm SOLIDS HANDLING
- 40mm DISCHARGE
- AUTOMATIC AS STANDARD; CAN BE CONVERTED TO MANUAL UPON REQUEST



CUTTER



GR BLUE



PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
GR BLUE PRO 100/2/G40H 230V/1Ph	/ A	1 1/2" / 40mm	7	10	0.74	19	PZ/1116.002	680
GR BLUE PRO 100/2/G40H 400V/3Ph	/ A	1 1/2" / 40mm	7	10	0.74	19	PZ/1117.002	680
GR BLUE PRO 150/2/G40H 230V/1Ph	/ B	1 1/2" / 40mm	7	10	1.1	24	PZ/1118.001	770
GR BLUE PRO 150/2/G40H 400V/3Ph	/ B	1 1/2" / 40mm	7	10	1.1	24	PZ/1119.002	770
GR BLUE PRO 200/2/G40H 230V/1Ph	/ C	1 1/2" / 40mm	7	10	1.5	25	PZ/1120.001	1060
GR BLUE PRO 200/2/G40H 400V/3Ph	/ C	1 1/2" / 40mm	7	10	1.5	25	PZ/1121.001	1060



Please also see our GRN range of heavy duty grinder pumps.

GRN / GRP GRINDER RANGES

These models feature multi-channel open impellers and separate rotating cutter blades operating at the pump intake.

Well-suited for use with liquids containing long fibres or solids which require cutting prior to being pumped, minimising the risk of blocking and providing efficiency and economy. GRN models are fitted with double mechanical seals and oil-filled motor for more demanding applications. GRP models are fitted with triple mechanical seals and an oil-filled motor.

All units are constructed in cast iron for strength and durability, with special hardened steel cutter.

APPLICATIONS

- SEWAGE PUMPING STATIONS
- INDUSTRIAL PROCESSES
- AGRICULTURE & FARMS
- IRRIGATION
- SEWAGE & TREATMENT WORKS
- HOUSING

FEATURES

- CAST CONSTRUCTION
- GRN - DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- GRP - TRIPLE MECHANICAL SEAL WITHIN OIL BATH
- 7 - 10mm SOLIDS HANDLING
- 2.2 - 7.2kW OUTPUT
- 50mm DISCHARGE
- AUTO-COUPLING AVAILABLE
- CUTTING ACTION GIVES 69,000 CUTS PER MINUTE



GRN



GRP



PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
GRN 300/2/G50H 400V/3Ph	/ A	2" / 50mm	7	10	2.2	47	PZ/GRN300T/3	1620
GRN 400/2/G50H 400V/3Ph	/ B	2" / 50mm	7	10	3	69	PZ/GRN400T/3	1980
GRN 550/2/G50H 400V/3Ph	/ C	2" / 50mm	7	10	4.1	84	PZ/GRN550T/3	2140
GRP 750/2/G50H 400V/3Ph	/ D	2" / 50mm	1	10	7.2	91	PZ/GRP750T/3	3900



GRINDER SYSTEM



IMPELLER

Please note that a base stand will be required with the GRP range, please see the accessories section for further details. Appropriate base stand - PZS/9024.006.



GRF GRINDER

ATEX EExd IIB T4

GRF models feature multi-channel open impellers and separate rotating cutter blades operating at the pump intake.

Well-suited for use with liquids containing long fibres or solids which require cutting prior to being pumped, minimising the risk of blocking and providing efficiency and economy. GRF models all have explosion-proof motors. All units are constructed in cast-iron for strength and durability, with special hardened steel cutter.

APPLICATIONS

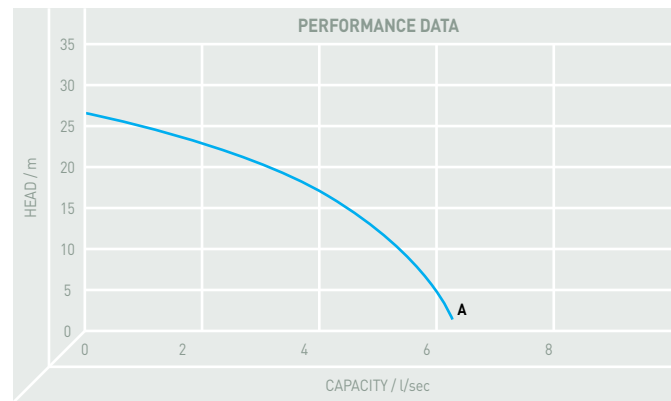
- DOMESTIC & INDUSTRIAL
- AGRICULTURAL & FARMS
- IRRIGATION
- PUMPING STATIONS
- SEWAGE & TREATMENT WORKS
- HOUSING

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 7mm SOLIDS HANDLING
- 1.5kW OUTPUT
- 40mm DISCHARGE
- CUTTING ACTION GIVES 69,000 CUTS PER MINUTE
- AUTO-COUPLING AVAILABLE ON REQUEST



GRF



PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
GRF 200/2/G40H 230V/1Ph	/ A	1 1/2" / 40mm	7	10	1.5	32	PZ/GRF200M/2/1	1540
GRF 200/2/G40H 400V/3Ph	/ A	1 1/2" / 40mm	7	10	1.5	32	PZ/GRF200T/2/3	1540



GRINDER SYSTEM



IMPELLER

B

Please note that a base stand will be required with the GRF range, please see the accessories section for further details. Appropriate base stand - PZS/9024.006.

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TT305 / TT505 / TT510

The TT305, TT505 and TT510 submersible pumps are designed for transferring sewage and effluent, and for dirty water drainage.

This range of pumps have a shredding action produced by the impeller rotating against a special serrated suction cover, and reduces any destructible matter to a manageable size for pumping, minimising the risk of blockage and allowing better efficiency and economy.

APPLICATIONS

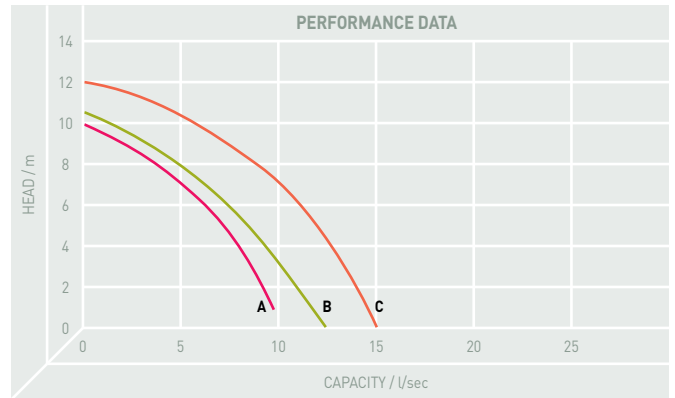
- SEWAGE PUMPING STATIONS
- DOMESTIC & INDUSTRIAL
- AGRICULTURE & FARMS
- SEWAGE & TREATMENT WORKS
- HOUSING

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 15mm SOLIDS HANDLING
- 0.85 - 1.8kW OUTPUT
- 80mm DISCHARGE
- AUTO-COUPLING AVAILABLE



TT505
(AUTO-COUPLING FOR ILLUSTRATION PURPOSES ONLY)



	PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
01	TT305 230V/1Ph	/ A	3" / 80mm	15	10	0.85	51	PE/TT305/1	1150
02	TT305 400V/3Ph	/ A	3" / 80mm	15	10	0.85	51	PE/TT305/3	1150
03	TT505 230V/1Ph	/ B	3" / 80mm	15	10	1.25	55	PE/TT505/1	1250
04	TT505 400V/3Ph	/ B	3" / 80mm	15	10	1.2	51	PE/TT505/3	1250
05	TT510 400V/3Ph	/ C	3" / 80mm	15	10	1.8	55	PE/TT510/3	1280

Please see our accessories section to purchase a Duckfoot, Hook or Stand for these pumps.



TT1008 / TT1409

The TT1008 and TT1409 submersible pumps are designed for transferring sewage and effluent, and for dirty water drainage.

A shredding action is produced by the impeller rotating against a special serrated suction cover, and reduces any destructible matter to a manageable size for pumping, minimising the risk of blockage and allowing better efficiency and economy.

APPLICATIONS

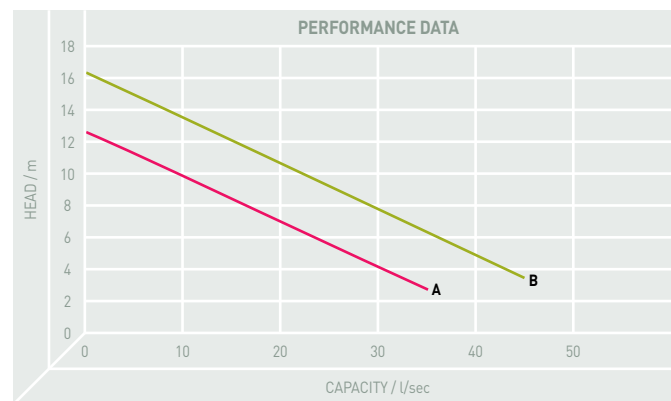
- CONSTRUCTION & HOUSING DEVELOPMENTS
- FOOD EFFLUENTS
- LARGE WATER FEATURES
- INDUSTRIAL PROCESSES
- AGRICULTURE & FARMS
- SEWAGE & TREATMENT WORKS
- HOUSING

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 100mm SOLIDS HANDLING
- 4 - 5.5kW OUTPUT
- 100mm DISCHARGE



TT1409



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
TT1008 400V/3Ph	/ A	4" / 100mm	100	8	4	140	PE/TT1008/3	2500
TT1409 400V/3Ph	/ B	4" / 100mm	100	8	5.5	140	PE/TT1409/3	2850



Please note that these pumps are 100mm solids handling as standard.

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PTS 40

The PTS series is a range of heavy duty submersible chopper pumps, ideal for particularly heavy applications that require a preliminary chopping of the solid material suspended in the liquid being pumped.

APPLICATIONS

- CONSTRUCTION & HOUSING DEVELOPMENTS
- FOOD PROCESSING
- DOMESTIC & INDUSTRIAL
- AGRICULTURE & FARMS
- SEWAGE & TREATMENT WORKS

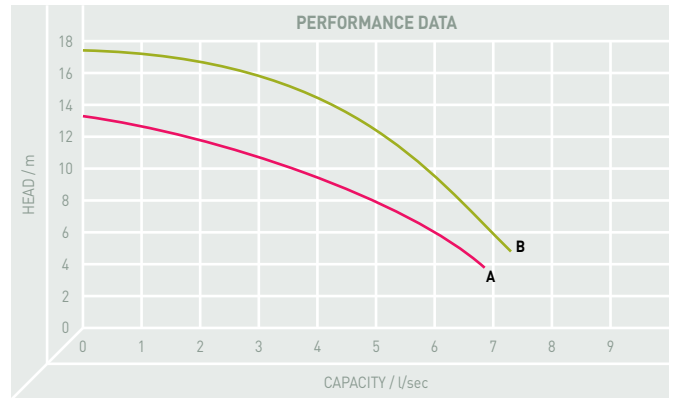
FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- TOUGH CHOPPING ACTION
- 40mm DISCHARGE
- 0.75 - 1.1kW OUTPUT
- AUTOMATIC VERSION AVAILABLE IN 230V/1Ph



IMPELLER

PTS 40



PUMP TYPE	CURVE	OUTLET " / mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
PTS 0.75-40 400V/3Ph	/ A	1 1/2" / 40mm	0.75	10	20.5	PCR/PTS0.75-40/3	1050
PTS 1.1-40 400V/3Ph	/ B	1 1/2" / 40mm	1.1	10	20	PCR/PTS1.1-40/3	1140

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PTS 80 - 150 SERIES

The PTS series is a range of heavy duty submersible chopping pumps, ideal for particularly heavy applications that require a preliminary chopping of the solid material suspended in the liquid being pumped. Each pump has a large, through-passage, open multi-channel impeller and double cutting system in suction inlet.

APPLICATIONS

- SEWAGE PUMPING STATION
- FOOD PROCESSING EFFLUENTS
- PROCESSES & INDUSTRIAL
- AGRICULTURE & FARMS
- SEWAGE & TREATMENT WORKS
- HOUSING & NURSING HOMES
- BIOGAS PROCESS

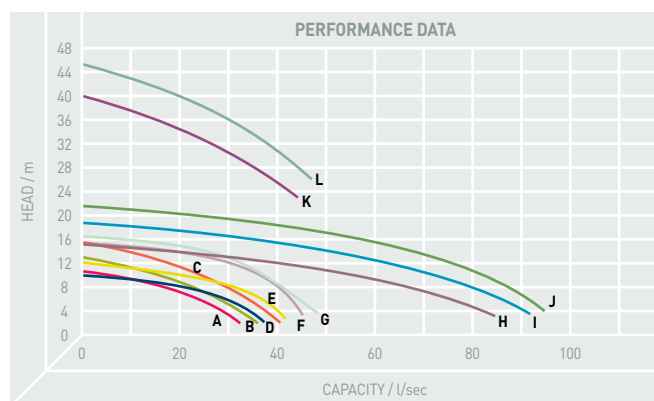
FEATURES

- CAST IRON CONSTRUCTION
- TOUGH DOUBLE CHOPPING ACTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 80 - 150mm DISCHARGE
- 2.2 - 18.5kW OUTPUT
- AUTO COUPLING AVAILABLE



PTS 80 SERIES

PTS 100 - 150 SERIES



	PUMP TYPE	CURVE	OUTLET " / mm	CABLE LENGTH m	KW	WEIGHT kg	CODE	PRICE £
4 POLE MOTOR	PTS 2.2-80 400V/3Ph*	/ A	3" / 80mm	10	2.2	73	PCR/PTS2.2-80/3	2800
	PTS 3-80 400V/3Ph*	/ B	3" / 80mm	10	3	75	PCR/PTS3-80/3	2900
	PTS 4-80 400V/3Ph*	/ C	3" / 80mm	10	4	76	PCR/PTS4-80/3	2950
	PTS 4-100 400V/3Ph	/ D	4" / 100mm	10	4	87	PCR/PTS4-100/3	3450
	PTS 5.5-100 400V/3Ph	/ E	4" / 100mm	10	5.5	121	PCR/PTS5.5-100/3	3950
	PTS 7.5-100 400V/3Ph	/ F	4" / 100mm	10	7.5	127	PCR/PTS7.5-100/3	4000
	PTS 9-100 400V/3Ph	/ G	4" / 100mm	10	9	132	PCR/PTS9-100/3	4100
	PTS 11-150 400V/3Ph	/ H	6" / 150mm	10	11	206	PCR/PTS11-150/3	5950
	PTS 15-150 400V/3Ph	/ I	6" / 150mm	10	15	219	PCR/PTS15-150/3	6050
2 POLE MOTOR	PTS 18.5-150 400V/3Ph	/ J	6" / 150mm	10	18.5	225	PCR/PTS18.5-150/3	6300
	PTS 15-80 400V/3Ph*	/ K	3" / 80mm	10	15	219	PCR/PTS15-80/3	5400
	PTS 18.5-80 400V/3Ph*	/ L	3" / 80mm	10	18.5	225	PCR/PTS18.5-80/3	5600

*Available with 100mm heavy duty cutting system - £350.



Why not see this product in action?
 Visit <http://www.youtube.com/watch?v=nK381iuPd4M&feature=related>

ELECTRIC SUBMERSIBLE PUMPS



THE FUTURE OF EFFLUENT & DRAINAGE PUMPING

ADVANCE ENGINEERING
HIGH EFFICIENCY
ENGINEERED RELIABILITY



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UNIQA PRODUCTS INDEX

PUMP TYPE	MAX FLOW m ³ /h	MAX FLOW l/sec	MAX HEAD m	APPLICATIONS						PAGE
				INDUSTRIAL	WASTE WATER DRAINAGE WATER	SEWAGE & TREATMENT WORKS	HOUSING ESTATE	GENERAL EFFLUENTS	DOMESTIC WASTE WATER	
ZUG V 080A	158.4	44	26	✓	✓	✓	✓	✓	✓	36
ZUG V 080B	158.4	44	47	✓	✓	✓	✓	✓	✓	37
ZUG V 100A	252	70	76	✓	✓	✓	✓	✓	✓	38
ZUG V 100B	266.4	74	24	✓	✓	✓	✓	✓	✓	39
ZUG OC 100A	331.2	92	27	✓	✓	✓	✓	✓	✓	40
ZUG OC 100E	284.4	79	13	✓	✓	✓	✓	✓	✓	41
ZUG OC 150A	504	140	26	✓	✓	✓	✓	✓	✓	42
ZUG OC 150D	424.8	118	13	✓	✓	✓	✓	✓	✓	43
ZUG OC 250B	2070	575	70	✓	✓	✓	✓	✓	✓	44
ZUG OC 300B	2160	600	65	✓	✓	✓	✓	✓	✓	45
ZUG OC 300C	1980	550	34	✓	✓	✓	✓	✓	✓	46

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UNIQA INTRODUCTION



water technology

We are pleased to introduce a new range of high efficiency, submersible electric pumps from Zenit, UNIQA® with ATEX approval.

Reduced CO2 emissions, lower costs and environmental protection, are issues that affect us all closely and which we need to take care of for the sake of future generations. UNIQA® motors correspond to IE3 efficiency class and match S1 duty cycle standards for submersed operation at a temperature of 60° C, as per NEMA A.

In wastewater applications the reliability of an electric submersible pump is essential for smooth operation, steady performance and continuous work cycles without undesired system shutdowns. For this reason, UNIQA® is made of innovative materials and is equipped with cutting-edge technical features such as the new patented cooling system. All these attributes make UNIQA® a safe and reliable product.

The UNIQA® range represents the perfect solution for any wastewater application, with a choice of 2, 4, 6 or 8 pole motors from 4 to 200 kW, 50 and 60Hz, and discharge ports from DN80 to DN400. The Vortex impeller that allows for wider free passage, paired with the anti-clogging system, guarantees the optimum performance of every UNIQA® model in any application.

LIFE CYCLE COST (LCC)

Life Cycle Cost consists of 3 basic factors: initial costs, energy costs and maintenance. It must be remembered that a pump or system's energy costs, together with installation, environmental, disposal and stoppage costs, account for 85 per cent of the total cost. Maintenance then amounts to an additional 5 per cent. It thus becomes clear that the initial cost only accounts for 10 per cent of LCC.

Therefore, giving a submersible pump a highly efficient motor and internal components can guarantee impressive energy savings, recouping the extra investment compared to the purchase of a pump with the same hydraulic characteristics but poorer energy efficiency within just two years*.

*Regular inspection of the system's components, operation and performance is essential for the achievement of efficiency targets.



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UNIQA CONSTRUCTION



CABLE GLAND

The standard cable gland is entirely robust but further advanced sealing is available for the most demanding applications.



MOTOR COMPARTMENT

Option to install one or more water / humidity sensors in the motor compartment.



MOTOR SHAFT

The whole range is equipped with AISI 431 stainless steel shafts. The NITRONIC 50 version is also available upon request (this type of stainless steel has higher chemical and mechanical resistance compared to AISI 316 and AISI 329).



BEARINGS

Oversized heavy-duty bearings designed for 50,000 hours of operation.



SUPERIOR SEALING

Two silicon carbide mechanical seals in the oil sump and V-rings. The oil can be checked and changed even with the pump vertical, using plugs on the exterior of the mount.



FLANGES

Various flange drilling are available, including ANSI and BS.



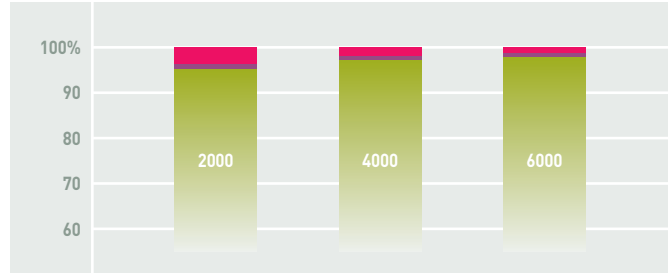
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MOTOR

High-efficiency PREMIUM IE3 motors function, in according with NEMA A standard, and isolation in class H. Guaranteed S1 duty cycle in fluids at 60°C or higher temperature.

Generally, since energy costs are higher than other expenses, continuous duty provides higher savings compared to a conventional system and the initial investment in a **high efficiency systems** is soon recouped, without considering the considerable advantages in terms of environmental footprint.



	OPERATION - HOURS / YEAR			COSTS - %
	2000	4000	6000	
PURCHASE	3.8	1.9	1.3	
MAINTENANCE	1.0	1.0	1.0	
ENERGY	95.2	97.1	97.7	



HYDRAULICS

All hydraulic components are designed to provide highest efficiency and best performance combined with wide free passage. The series is based on two different impeller types: high-efficiency **Vortex** or **channel** impellers.

All models with open-channel impeller have an axial adjustment system that maintains the impeller's balance for unchanged pump performance even at first signs of wear.

The Anti-Clogging-System (ACS) prevents blocking the impeller even in heavy-duty conditions.



COOLING SYSTEM (PATENTED)

The motor is cooled down by a **patented** closed-circuit internal re-circulation system. This way, should any soiled liquid penetrate the oil chamber due to possible wear of the first mechanical seal, the fluid used in the process wouldn't be affected.

Continuous duty can be maintained with a unsubmerged motor on dry well applications.

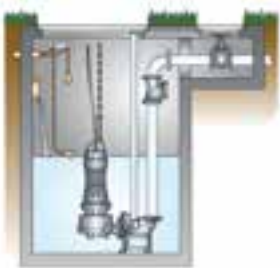


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INSTALLATION TYPES

INSTALLATION WITH COUPLING DEVICE / TYPE P

The vertical or horizontal coupling device is fixed to the bottom of the pump chamber and the pump is lowered in with the aid of two guide pipes fitted earlier, until the connection to the foot is completed. This ensures that the pump can be easily removed at ground level.



DAC V

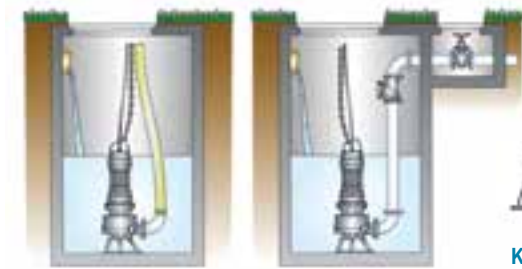


DAC H

FREE INSTALLATION / TYPE S

The pump, mounted to its base, rests on the floor of the pump chamber in the vertical position. It is connected to the system via a flanged pipe connected to its discharge port.

The pump may also be connected to a flexible hose using a flanged bend union connected to the outlet port. This facilitates removing the pump from the tank and is recommended for temporary installations.



KBS

VERTICAL INSTALLATION / TYPE T AND HORIZONTAL INSTALLATION / TYPE Z IN DRY CHAMBER

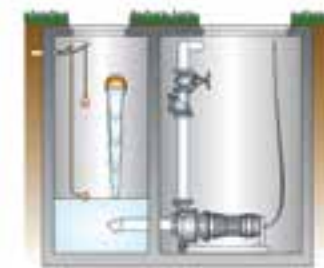
The pump may be installed in a dry chamber by using a cooling jacket. No external cooling fluid supply is required, since the motor is cooled by a PATENTED closed loop circuit with internal recirculation.

In **VERTICAL** dry installations, the pump is secured to a curved base to which the suction flange is mounted.

In **HORIZONTAL** dry installations, the pump is secured to a steel frame and the suction pipe is connected directly to the pump's suction flange.



KBC



KBS-H

FEATURES

UNIQA® SUBMERSIBLE ELECTRIC PUMPS

Designed for heavy-duty professional applications, in wastewater, effluents and drainage waters where solids handling must be considered.

The UNIQA® series motors are designed with the aim of achieving the Premium (IE3) efficiency class according to EN 60034-30. The entire range is available in the 'dry' version, which requires no external liquid inputs and allows the pump to operate continuously (S1 class) even if partially submerged or installed in a dry chamber.

Non-standard diameters are available for optimal performance on the specific duty point.

FEATURES

- The UNIQA® series features a modular design in which the motor and hydraulics are perfectly coupled to each other, thus creating a robust and highly reliable assembly
- Maximum operating temperatures to NEMA class A
- Motor case, impeller and hydraulics in cast iron / stainless steel
- High efficiency electric motors to class Premium (IE3)
- Models available for 50 and 60Hz power supplies
- Thermal cutout integrated into stator to safeguard the motor even in heavy duty and continuous service
- Long life lubricated bearings (50,000 hours)
- AISI 431 motor shaft. Available in NITRONIC 50 on request
- Sensors for detecting water penetration into the mechanical seal oil sumps, motor compartment and terminal box
- Two silicon carbide mechanical seals in large oil sump and V-rings
- Available with high performance channel or vortex impellers
- Hydraulics with discharge ports from DN80 to DN400
- Full free passage for vortex impeller models, min. 80mm for channel impeller models
- Patented closed jacket cooling system with internal recirculation



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STANDARD EQUIPMENT AND OPTIONS

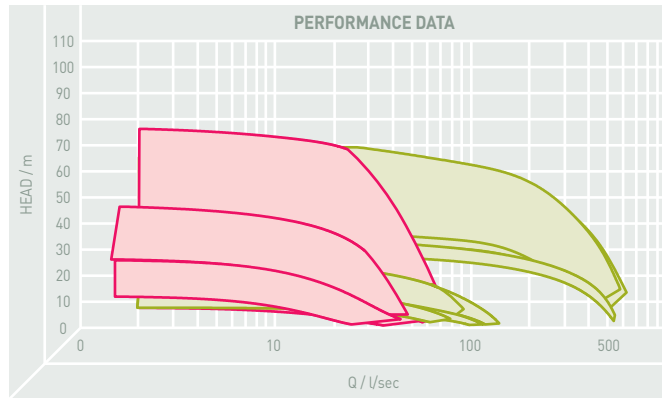
DESCRIPTION	STANDARD	OPTIONAL
VOLTAGE	400	230, 500, 230 / 400, 440, 500 / 866
POWER VOLTAGE TOLERANCE	± 10%	-
EFFICIENCY CLASS	IE3 - PREMIUM EFFICIENCY	IE2 - HIGH EFFICIENCY
POWER SUPPLY	3~ 50HZ	VFD - 60Hz
INSULATION CLASS	H	-
START	STAR-DELTA	DIRECT ONLINE, SOFT START
MAX. AMBIENT TEMPERATURE	40°C	60°C
CABLE	H07RN-F	NSSHÖU- 0/J, EMC
CABLE LENGTH	10 MT	20 - 30 - 40 - 50 MT
PAINTING	EPOXY BICOMPONENT (120 MICRON)	EPOXY BICOMPONENT (400 MICRON)
MECHANICAL SEALS	N.2 IN SILICON CARBIDE (SiC/SiC) IN OIL CHAMBER	-
THERMAL SENSORS	BIMETALLIC THERMAL SENSORS (150°C)	PTC/PT100 THERMISTOR
INSTALLATION TYPES	SUBMERSED	DRY
PROBE WATER IN OIL CHAMBER	NO	YES
PROBE WATER IN MOTOR CASE	NO	YES
PROBE WATER IN MOTOR COVER CASE	NO	YES
ZINC ANODES	NO	YES
VIBRATIONS SENSORS (BEARINGS)	NO	YES (SEE THE TECHNICAL SPECIFICATIONS)
THERMAL SENSORS (BEARINGS)	NO	PTC/PTC100 (SEE THE TECHNICAL SPECIFICATIONS)
ATEX CERTIFICATION	NO	YES

CONSTRUCTION MATERIALS

DESCRIPTION	STANDARD	OPTIONAL
MOTOR CASE	EN-GJL 250	-
SHAFT	1.4057 (AISI 431)	NITRONIC 50
HYDRAULIC PARTS	EN-GJL 250	1.4401 (AISI 316)
COOLING JACKET	AISI 304	-
GASKETS	NBR	VITON
SCREWS	A2-70 STAINLESS STEEL	A4 - 80
IMPELLER	EN-GJL 250	1.4401 (AISI 316)
LIFTING HANDLE	1.4401 (AISI 316)	-

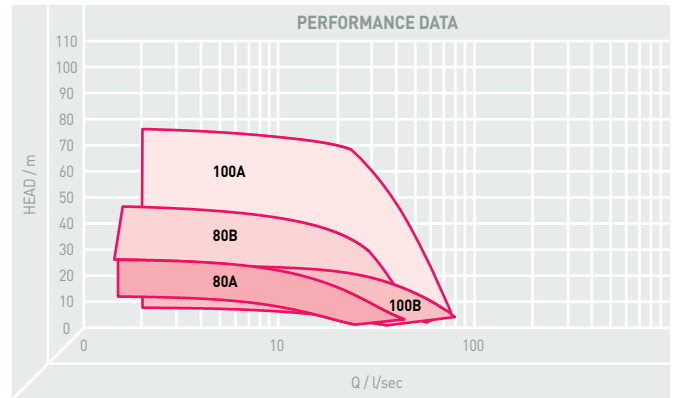
STANDARD EQUIPMENT AND OPTIONS

CURRENTLY AVAILABLE OPERATING RANGES



- ZUG V (VORTEX)
- ZUG OC (CHANNELS)

CURRENTLY AVAILABLE OPERATING RANGES (VORTEX)

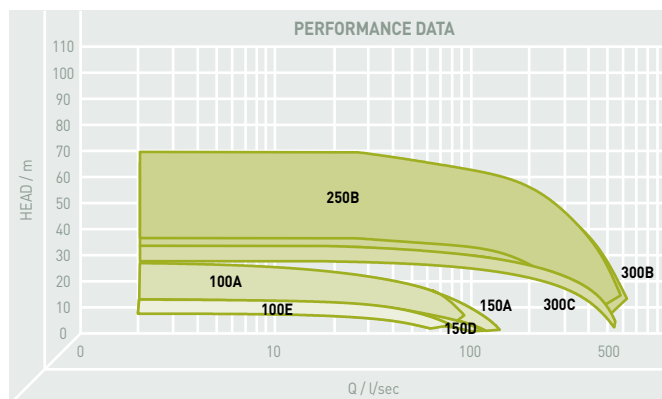


VORTEX IMPELLER

DISCHARGE	DN80 - DN100
POWER	4 - 37kW
POLES	2 - 4



CURRENTLY AVAILABLE OPERATING RANGES (CHANNELS)

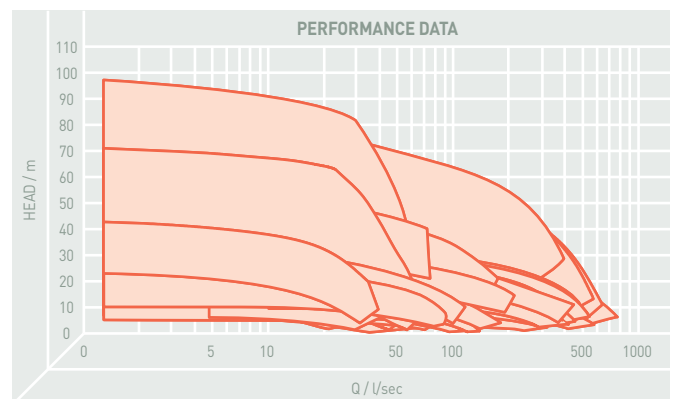


CHANNELS IMPELLER

DISCHARGE	DN100 - DN300
POWER	4 - 200kW
POLES	4 - 6 - 8



OVERVIEW OF FULL OPERATING RANGES - SCHEDULED FOR COMPLETION 2014



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ZUG V 080A



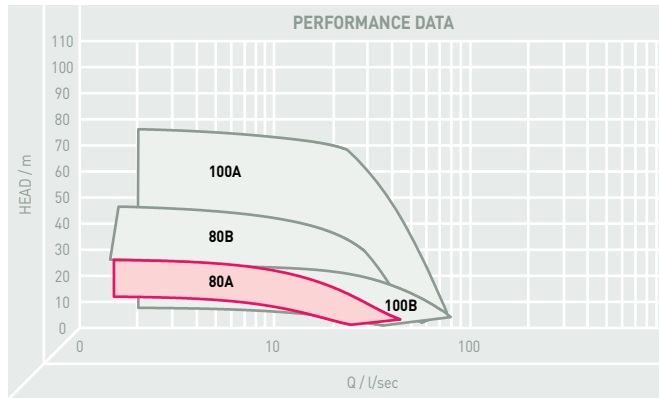
TECHNICAL SPECIFICATION

- VORTEX IMPELLER
- DISCHARGE: DN80
- FREE PASSAGE: 80mm
- POWER: 4 ÷ 11kW
- POLES: 2



VORTEX IMPELLER

ZUG V 080A



HYDRAULICS	MOTOR / POLE	V	~	A	P2	P1	η MOT.	ADMITTED INSTALLATIONS				
								P	S	T	Z	X
ZUG V 080A	4/2 AW (D)	400	3	7.7	4.0	4.5	88.2	W	W	D	D	W/D
	5.5/2 AW (D)	400	3	10.2	5.5	6.1	89.2	W	W	D	D	W/D
	7.5/2 AW	400	3	14.1	7.5	8.3	90.2	W	W	-	-	W
	9/2 AW	400	3	16.5	9.0	9.94	90.6	W	W	-	-	W
	11/2 AW	400	3	20.0	11.0	12.1	91.2	W	W	-	-	W

W: WET version (submerged operation - S1 duty)

D: DRY version (dry operation - S1 duty)

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ZUG V 080B

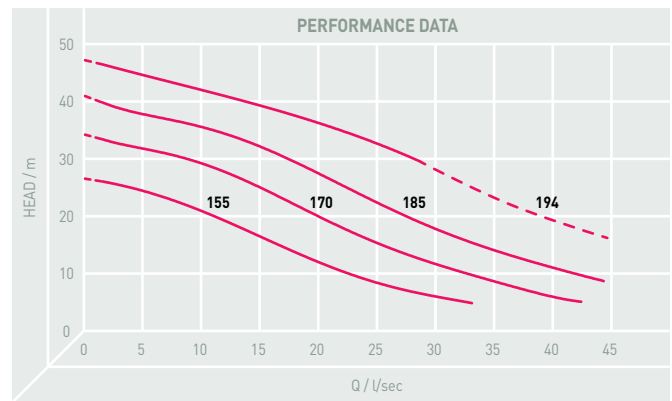
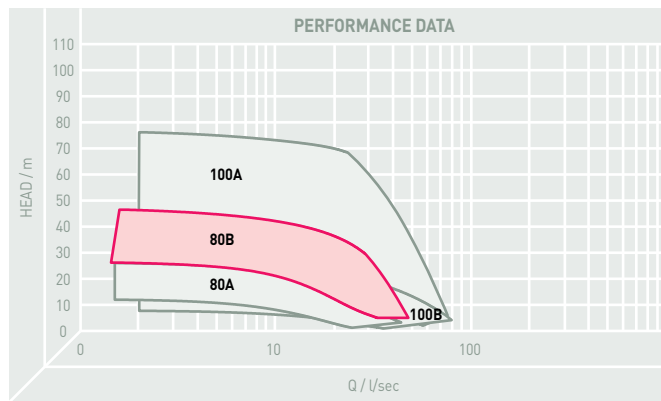
TECHNICAL SPECIFICATION

- VORTEX IMPELLER
- DISCHARGE: DN80
- FREE PASSAGE: 80mm
- POWER: 7.5 ÷ 18.5kW
- POLES: 2



VORTEX IMPELLER

ZUG V 080B



HYDRAULICS	MOTOR / POLE	V	~	A	P2	P1	η MOT.	ADMITTED INSTALLATIONS				
								P	S	T	Z	X
ZUG V 080B	7.5/2 AW (D)	400	3	14.1	7.5	8.3	90.4	W	W	D	D	W/D
	9/2 AW (D)	400	3	16.5	9.0	9.94	90.6	W	W	D	D	W/D
	11/2 AW	400	3	20.0	11.0	12.1	91.2	W	W	D	D	W/D
	15/2 AW	400	3	26.8	15.0	16.3	92.4	W	W	D	D	W/D
	18.5/2 AW	400	3	33.1	18.5	20.0	92.5	W	W	D	D	W/D

W: WET version (submerged operation - S1 duty)

D: DRY version (dry operation - S1 duty)

ZUG V 100A



TECHNICAL SPECIFICATION

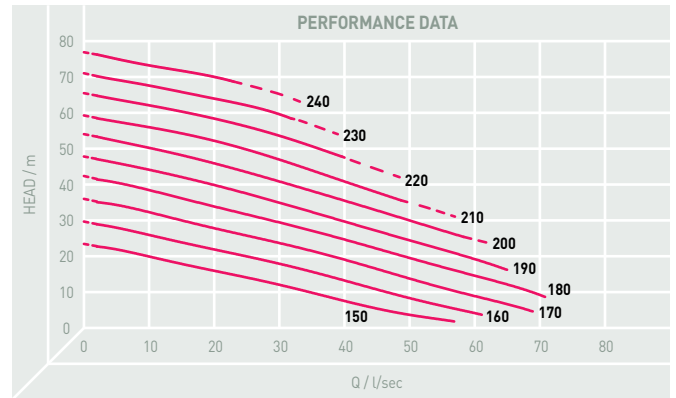
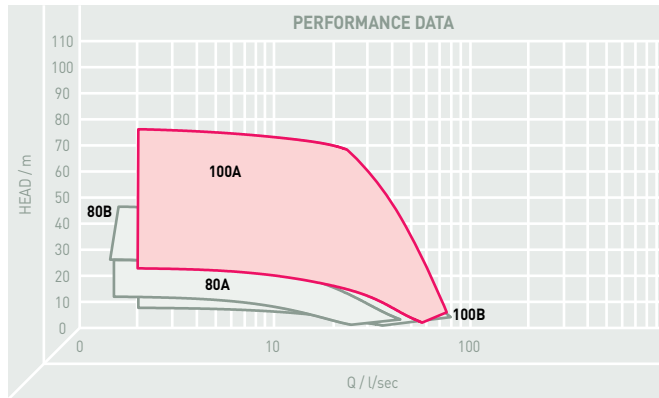
- VORTEX IMPELLER
- DISCHARGE: DN100
- FREE PASSAGE: 100mm
- POWER: 15 ÷ 37kW
- POLES: 2



VORTEX IMPELLER



ZUG V 100A



HYDRAULICS	MOTOR / POLE	V	~	A	P2	P1	η MOT.	ADMITTED INSTALLATIONS				
								P	S	T	Z	X
ZUG V 100A	15/2 AW (D)	400	3	26.8	15.0	16.3	92.4	W	W	D	D	W/D
	18.5/2 AW (D)	400	3	33.1	18.5	20.0	92.5	W	W	D	D	W/D
	22/2 AW	400	3	39.3	22.0	23.7	92.8	W	W	D	D	W/D
	30/2 AW	400	3	53.0	30.0	32.15	93.3	W	W	D	D	W/D
	37/2 AW	400	3	64.0	37.0	40.0	92.5	W	W	D	D	W/D

W: WET version (submerged operation - S1 duty)

D: DRY version (dry operation - S1 duty)

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ZUG V 100B

TECHNICAL SPECIFICATION

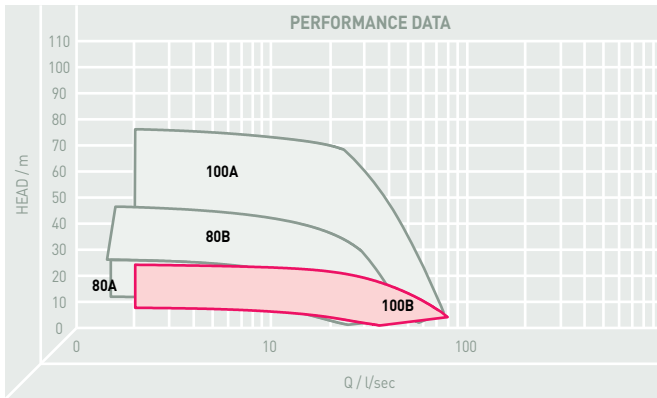
- VORTEX IMPELLER
- DISCHARGE: DN100
- FREE PASSAGE: 100mm
- POWER: 4 ÷ 15kW
- POLES: 4



VORTEX IMPELLER



ZUG V 100B



HYDRAULICS	MOTOR / POLE	V	~	A	P2	P1	η MOT.	ADMITTED INSTALLATIONS				
								P	S	T	Z	X
ZUG V 100B	4/4 AW (D)	400	3	8.45	4.0	4.5	88.8	W	W	D	D	W/D
	5.5/4 AW (D)	400	3	11.65	5.5	6.14	89.6	W	W	D	D	W/D
	7.5/4 AW (D)	400	3	14.5	7.5	8.3	90.4	W	W	D	D	W/D
	9/4 AW (D)	400	3	17.2	9.0	9.9	90.9	W	W	D	D	W/D
	11/4 AW (D)	400	3	21.2	11.0	12.0	91.4	W	W	D	D	W/D
	15/4 AW (D)	400	3	28.5	15.0	16.3	92.2	W	W	D	D	W/D

W: WET version (submerged operation - S1 duty)

D: DRY version (dry operation - S1 duty)

ZUG OC 100A



TECHNICAL SPECIFICATION

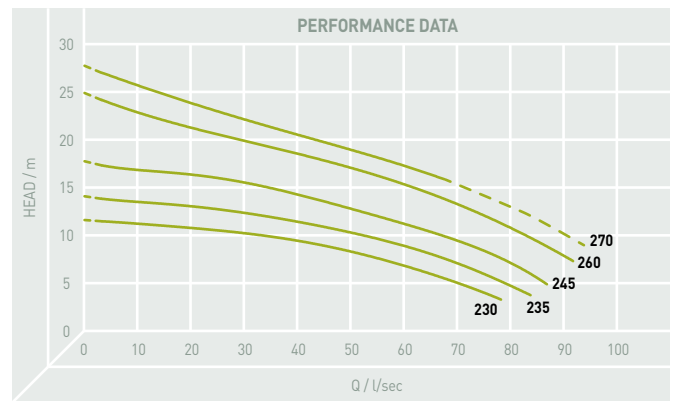
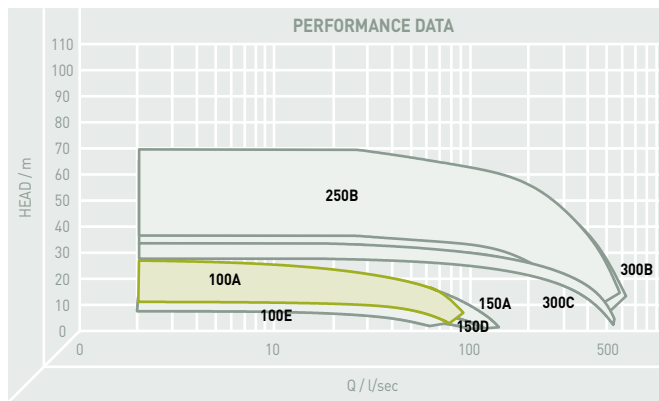
- OPEN CHANNELS IMPELLER
- DISCHARGE: DN100
- FREE PASSAGE: 80mm
- POWER: 7.5 ÷ 15kW
- POLES: 4



IMPELLER



ZUG OC 100A



HYDRAULICS	MOTOR / POLE	V	~	A	P2	P1	η MOT.	ADMITTED INSTALLATIONS				
								P	S	T	Z	X
ZUG OC 100A	7.5/4 AW (D)	400	3	14.5	7.5	8.3	90.4	W	W	D	D	W/D
	9/4 AW (D)	400	3	17.2	9.0	9.9	90.9	W	W	D	D	W/D
	11/4 AW (D)	400	3	21.2	11.0	12.0	91.4	W	W	D	D	W/D
	15/4 AW (D)	400	3	28.5	15.0	16.3	92.2	W	W	D	D	W/D

W: WET version (submerged operation - S1 duty)

D: DRY version (dry operation - S1 duty)

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ZUG OC 100E

TECHNICAL SPECIFICATION

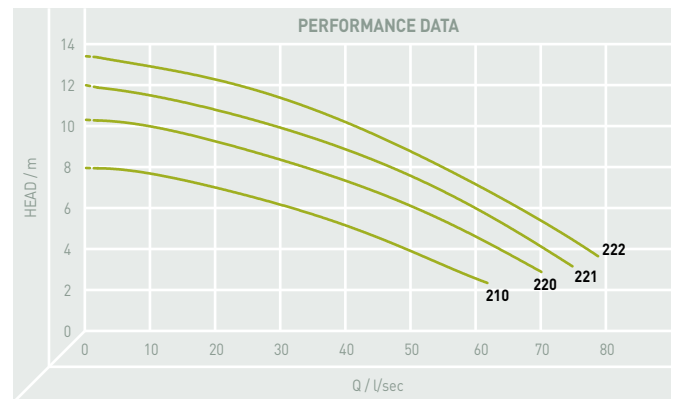
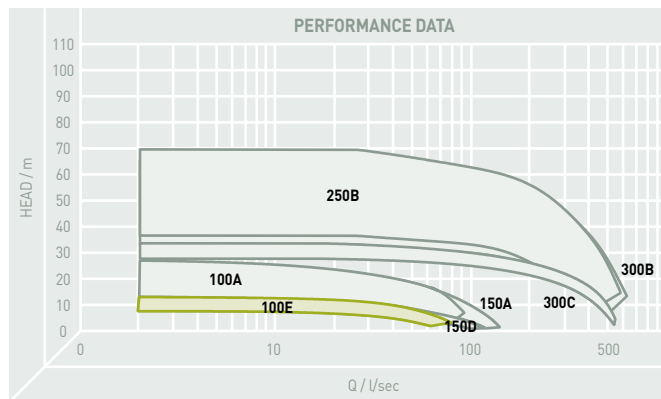
- OPEN CHANNELS IMPELLER
- DISCHARGE: DN100
- FREE PASSAGE: 80mm
- POWER: 4 ÷ 7.5kW
- POLES: 4



IMPELLER



ZUG OC 100E



HYDRAULICS	MOTOR / POLE	V	~	A	P2	P1	η MOT.	ADMITTED INSTALLATIONS				
								P	S	T	Z	X
ZUG OC 100E	4/4 AW (D)	400	3	8.45	4.0	4.5	88.8	W	W	D	D	W/D
	5.5/4 AW (D)	400	3	11.65	5.5	6.14	89.6	W	W	D	D	W/D
	7.5/4 AW (D)	400	3	14.5	7.5	8.3	90.4	W	W	D	D	W/D

W: WET version (submerged operation - S1 duty)

D: DRY version (dry operation - S1 duty)

ZUG OC 150A



TECHNICAL SPECIFICATION

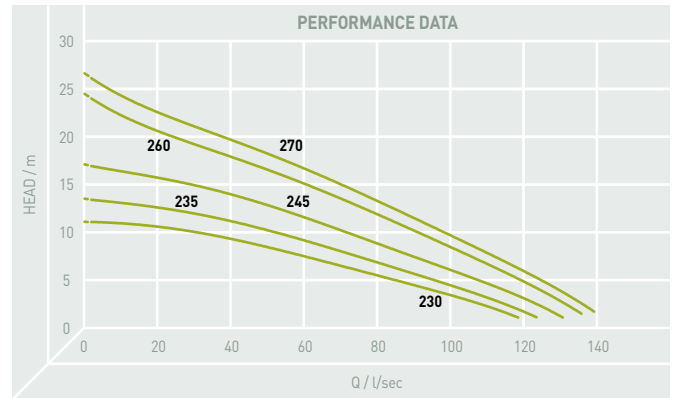
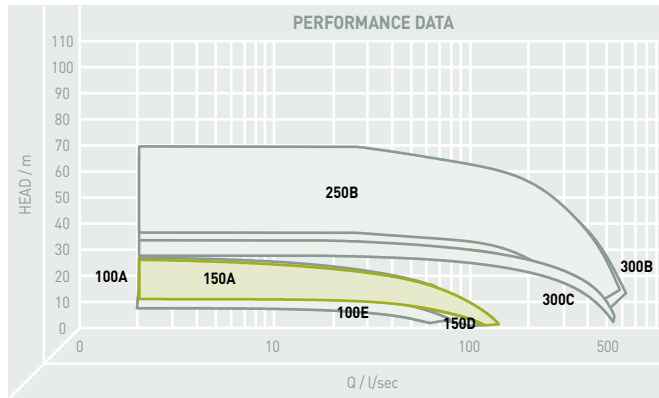
- OPEN CHANNELS IMPELLER
- DISCHARGE: DN150
- FREE PASSAGE: 80mm
- POWER: 7.5 ÷ 15kW
- POLES: 4



IMPELLER



ZUG OC 150A



HYDRAULICS	MOTOR / POLE	V	~	A	P2	P1	η MOT.	ADMITTED INSTALLATIONS				
								P	S	T	Z	X
ZUG OC 150A	7.5/4 AW (D)	400	3	14.5	7.5	8.3	90.4	W	W	D	D	W/D
	9/4 AW (D)	400	3	17.2	9.0	9.9	90.9	W	W	D	D	W/D
	11/4 AW (D)	400	3	21.2	11.0	12.0	91.4	W	W	D	D	W/D
	15/4 AW (D)	400	3	28.5	15.0	16.3	92.2	W	W	D	D	W/D

W: WET version (submerged operation - S1 duty)

D: DRY version (dry operation - S1 duty)

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ZUG OC 150D

TECHNICAL SPECIFICATION

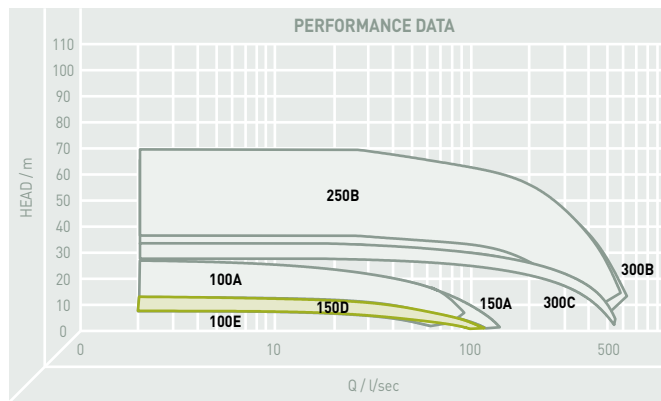
- OPEN CHANNELS IMPELLER
- DISCHARGE: DN150
- FREE PASSAGE: 80mm
- POWER: 4 ÷ 7.5kW
- POLES: 4



IMPELLER



ZUG OC 150D



HYDRAULICS	MOTOR / POLE	V	~	A	P2	P1	η MOT.	ADMITTED INSTALLATIONS				
								P	S	T	Z	X
ZUG OC 150D	4/4 AW (D)	400	3	8.45	4.0	4.5	88.7	W	W	D	D	W/D
	5.5/4 AW (D)	400	3	11.65	5.5	6.14	89.6	W	W	D	D	W/D
	7.5/4 AW (D)	400	3	14.5	7.5	8.3	90.4	W	W	D	D	W/D

W: WET version (submerged operation - S1 duty)

D: DRY version (dry operation - S1 duty)

ZUG OC 250B



TECHNICAL SPECIFICATION

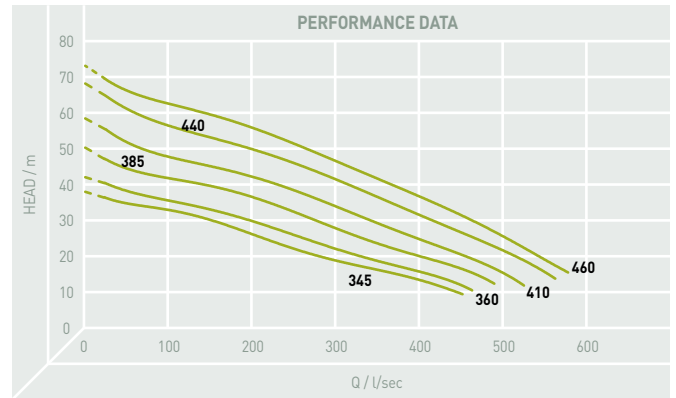
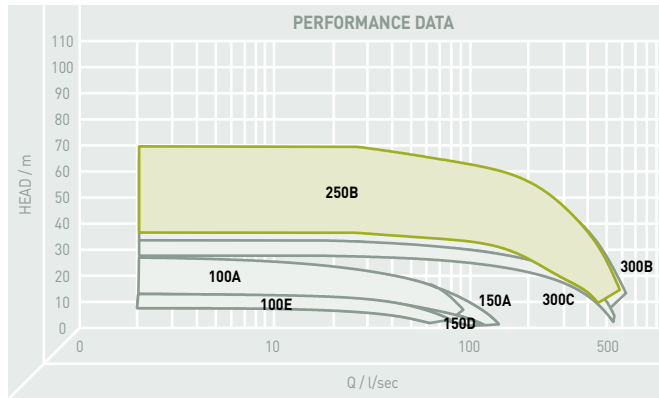
- OPEN CHANNELS IMPELLER
- DISCHARGE: DN250
- FREE PASSAGE: 110mm
- POWER: 90 ÷ 185kW
- POLES: 4



IMPELLER



ZUG OC 250B



HYDRAULICS	MOTOR / POLE	V	~	A	P2	P1	η MOT.	ADMITTED INSTALLATIONS				
								P	S	T	Z	X
ZUG OC 250B	90/4 AW (D)	400 / 700	3	160	90	94.5	95.2	W	W	D	D	W/D
	110/4 AW (D)	400 / 700	3	198	110	115.3	95.4	W	W	D	D	W/D
	132/4 AW (D)	400 / 700	3	238	132	138.0	95.6	W	W	D	D	W/D
	160/4 AW (D)	400 / 700	3	299	160	167.0	95.8	W	W	D	D	W/D
	185/4 HW (D)	400 / 700	3	342	185	194.5	95.1	W	W	D	D	W/D

W: WET version (submerged operation - S1 duty)

D: DRY version (dry operation - S1 duty)

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ZUG OC 300B

TECHNICAL SPECIFICATION

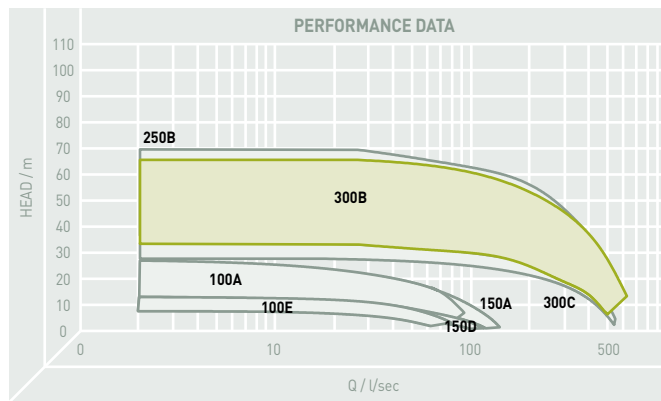
- OPEN CHANNELS IMPELLER
- DISCHARGE: DN300
- FREE PASSAGE: 110mm
- POWER: 90 ÷ 185kW
- POLES: 4



IMPELLER



ZUG OC 300B



HYDRAULICS	MOTOR / POLE	V	~	A	P2	P1	η MOT.	ADMITTED INSTALLATIONS				
								P	S	T	Z	X
ZUG OC 300B	90/4 AW (D)	400 / 700	3	160	90	94.5	95.2	W	W	D	D	W/D
	110/4 AW (D)	400 / 700	3	198	110	115.3	95.4	W	W	D	D	W/D
	132/4 AW (D)	400 / 700	3	238	132	138.0	95.6	W	W	D	D	W/D
	160/4 AW (D)	400 / 700	3	299	160	167.0	95.8	W	W	D	D	W/D
	185/4 HW (D)	400 / 700	3	342	185	194.5	95.1	W	W	D	D	W/D

W: WET version (submerged operation - S1 duty)

D: DRY version (dry operation - S1 duty)

ZUG OC 300C



TECHNICAL SPECIFICATION

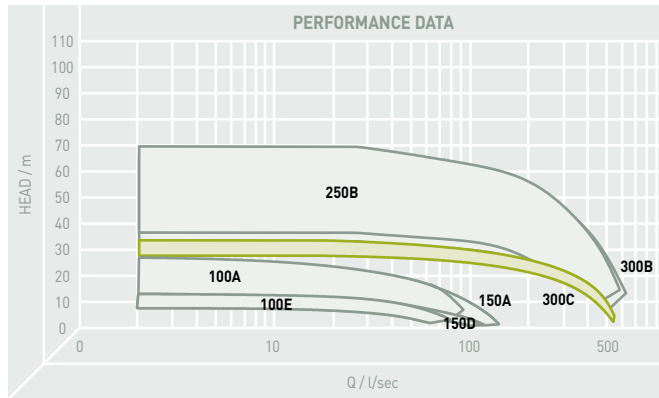
- OPEN CHANNELS IMPELLER
- DISCHARGE: DN300
- FREE PASSAGE: 150 x 110mm
- POWER: 75 - 90kW
- POLES: 6



IMPELLER



ZUG OC 300C



HYDRAULICS	MOTOR / POLE	V	~	A	P2	P1	η MOT.	ADMITTED INSTALLATIONS				
								P	S	T	Z	X
ZUG OC 300C	75/6 AW (D)	400 / 700	3	149	75	79.3	94.6	W	W	D	D	W/D
	90/6 AW (D)	400 / 700	3	175.5	90	94.8	94.9	W	W	D	D	W/D

W: WET version (submerged operation - S1 duty)

D: DRY version (dry operation - S1 duty)

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SP RANGE

A non-clogging self-priming sewage pump for applications which require good solids handling and ease of maintenance. A major feature of the range is the ease of maintenance without the use of major tools.

APPLICATIONS

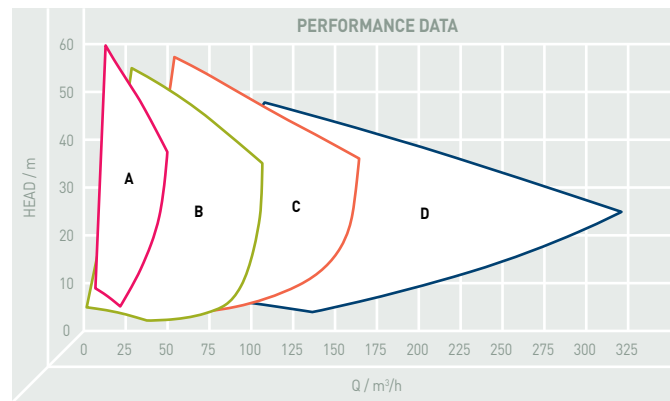
- SEWAGE LIFT STATIONS
- VEGETABLE PROCESSING
- TREATMENT PLANT
- PUMPING LIQUIDS WITH A CONCENTRATION OF SOLIDS IN SUSPENSION
- ABATTOIRS & TANNERY

FEATURES

- EXCELLENT SOLIDS HANDLING
- EASE OF MAINTENANCE
- COST EFFECTIVE
- SELF-PRIMING
- SEMI-OPEN IMPELLER STRUCTURE FOR NON-CLOGGING
- EASY ACCESS TO IMPELLER FOR MAINTENANCE



SP



MODEL	CURVE	OUTLET mm	SOLIDS HANDLING mm	MAX HEAD m	RPM RANGE m³/h	FLOW POWER kW	MAX SUCTION
SP-2	/ A	50	38	38	1150 - 2900	15 - 40	UP TO 6.5
SP-3	/ B	80	63	63	650 - 2150	25 - 85	UP TO 7.6
SP-4	/ C	100	76	76	650 - 1950	40 - 135	UP TO 7.6
SP-6	/ D	150	76	76	650 - 1550	100 - 280	UP TO 7.6

The suction lift is dependent on the speed of the pump and application characteristics, please contact the Sales Team for advice.



Full design and installation service available, please contact our Sales Team for further information.

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CONTRACTORS
PUMPS
PUMPS
CONTRACTORS

CONTRACTORS PRODUCTS INDEX

PUMP TYPE	MAX FLOW m ³ /h	MAX FLOW l/sec	MAX HEAD m	APPLICATIONS				PAGE
				INDUSTRIAL	IRRIGATION	QUARRY/ MINES	DRAINAGE WATER	
TRENCHER	39	10.83	21	✓	✗	✓	✓	04 - 05
LIBERATOR	18	5	15	✓	✗	✓	✓	06 - 07
PUDDLEPAL	18	5	15	✓	✗	✓	✓	08 - 09
TT505C	57.6	16	15	✓	✗	✓	✓	10
KTV RANGE	60	16.67	35	✓	✗	✓	✓	11
KTZ RANGE	144	40	48	✓	✗	✓	✓	12
KRS RANGE	720	200	36	✓	✗	✓	✓	13
KTV2 / KRS2 RANGE	195	54.17	23	✓	✗	✓	✓	14
GPN RANGE	192	53.33	19	✓	✗	✓	✓	15
NKZ RANGE	150	41.67	29	✓	✗	✓	✓	16
LH-W RANGE	75	20.83	120	✓	✓	✓	✓	17
LH RANGE	330	91.67	130	✓	✓	✓	✓	18
HY/EL RANGE	1400	388.89	53	✓	✗	✓	✓	19
WP25	96	26.67	45	✓	✗	✓	✓	20
SP20/21	48	13.33	35	✓	✗	✓	✓	21
SP35/45	180	50	40	✓	✗	✓	✓	22
SP55/SP65	480	133.33	40	✓	✗	✓	✓	23

NOTE: Please refer to our website or accessories literature for a full range of hose and fittings.

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INTRODUCTION

A tough range of submersible contractors pumps which can be relied upon to work tirelessly when pumping nuisance water. Favourites with the hire industry, they boast a robust and reliable design and performance.

When it comes to pumping aggressive material such as sand and aggregates the KRS and GPN really excel, where the LH is a real high head performance for tough sites in industry, construction and quarrying.

New to our range is our hydraulic series which can be applied with any good hydraulic power pack giving great universality and a great choice of units to suit individual applications to moving drainage and waste water.

APPLICATIONS

- Hire fleets
- Civil construction
- Quarries & mining
- Dewatering
- Nuisance water
- Water features
- Emergencies
- Industrial use

PRODUCTS

- Submersible drainage pumps
- Puddle pumps
- Heavy duty dewatering pumps
- Agitator pumps
- Hi-head dewatering pumps
- Dredging pumps
- Hydraulic pumps

FEATURES

- Heavy duty design
- Oversize bearing and shaft
- Twin mechanical seal in oil bath
- Unique seal cable design
- Wear resistant material to maximise product life
- Fully repairable design



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Trencher™

Trencher®, a range of **submersible drainage pumps** that are compact, light and powerful. They are suitable for ground water and water containing sand and silt - maximum solids handling of 7mm.

APPLICATIONS

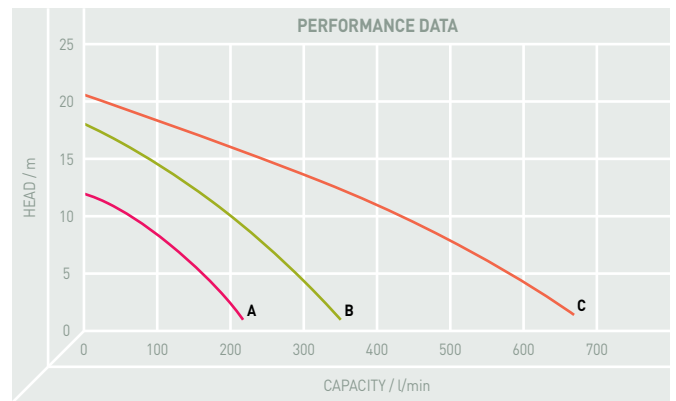
- SMALL WATER FEATURES
- CELLARS & BASEMENTS
- NUISANCE WATER
- CIVIL CONSTRUCTION
- QUARRIES & MINING
- HIRE FLEETS
- EMERGENCIES
- DEWATERING

FEATURES

- CAST IRON VOLUTE CASING
- HIGH ABRASIVE RESISTANCE RESIN VORTEX IMPELLER
- DOUBLE MECHANICAL SEAL
- AGITATOR
- AUTO THERMAL PROTECTOR - NON-AIR LOCKING
- 0.4 - 1.5kW OUTPUT
- 50 - 80mm DISCHARGE
- INTERCHANGEABLE MAJOR COMPONENTS BETWEEN TRENCHER®, LIBERATOR® AND PUDDLEPAL®, KEEPING COSTS DOWN FOR THE END USER (BASED ON MOTOR SIZE)



TRENCHER®



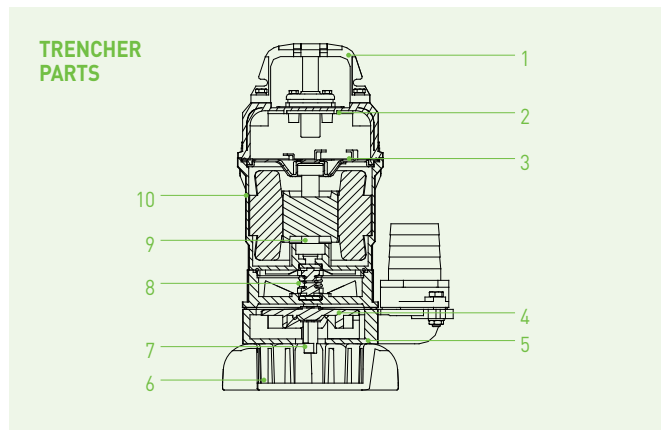
	PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
01	T400 110V/1Ph	/ A	2" / 50mm	7	10	0.4	13	PH/T400/110V	240
02	T400F 110V/1Ph*	/ A	2" / 50mm	7	10	0.4	13.3	PH/T400/110VF	270
03	T400 230V/1Ph	/ A	2" / 50mm	7	10	0.4	13	PH/T400/230V	240
04	T400F 230V/1Ph*	/ A	2" / 50mm	7	10	0.4	13.3	PH/T400/230VF	270
05	T750 110V/1Ph	/ B	2" / 50mm 3" / 80mm	7	10	0.75	15.5	PH/T750/110V	330
06	T750F 110V/1Ph*	/ B	2" / 50mm 3" / 80mm	7	10	0.75	15.8	PH/T750/110VF	360
07	T750 230V/1Ph	/ B	2" / 50mm 3" / 80mm	7	10	0.75	15.5	PH/T750/230V	330
08	T750F 230V/1Ph*	/ B	2" / 50mm 3" / 80mm	7	10	0.75	15.8	PH/T750/230VF	360

*Automatic version with F Type Float.

Trencher™

PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
T1500 110V/1Ph	/ C	2" / 50mm 3" / 80mm	7	10	1.5	19.3	PH/T1500/110V	895
T1500 230V/1Ph	/ C	2" / 50mm 3" / 80mm	7	10	1.5	19.3	PH/T1500/230V	895
T1500F 230V/1Ph*	/ C	2" / 50mm 3" / 80mm	7	10	1.5	19.6	PH/T1500/230VF	925
T1500 400V/3Ph	/ C	2" / 50mm 3" / 80mm	7	10	1.5	19.3	PH/T1500/400V	895
T1500F 400V/3Ph*	/ C	2" / 50mm 3" / 80mm	7	10	1.5	19.6	PH/T1500/400VF	925

*Automatic version with F Type Float.



PARTS & MATERIAL LIST		
NUMBER	PART	MATERIAL
1	HANDLE	NYLON 6
2	MOTOR COVER	ADC 12
3	END BRACKET	SECC
4	IMPELLER	URETHENE RUBBER
5	PUMP CASING	FC-200
6	STRAINER	PVC
7	AGITATOR	SMF 5030
8	MECHANICAL SEAL	UPPER: CA / CE
		LOWER: SIC / SIC
9	SHAFT	SUS 410
10	MOTOR HOUSING	ADC 12



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Liberator™

The Liberator® range of **submersible drainage pumps** that are compact, light and powerful. They are suitable for ground water and water containing sand and silt - maximum solids handling of 7mm.

APPLICATIONS

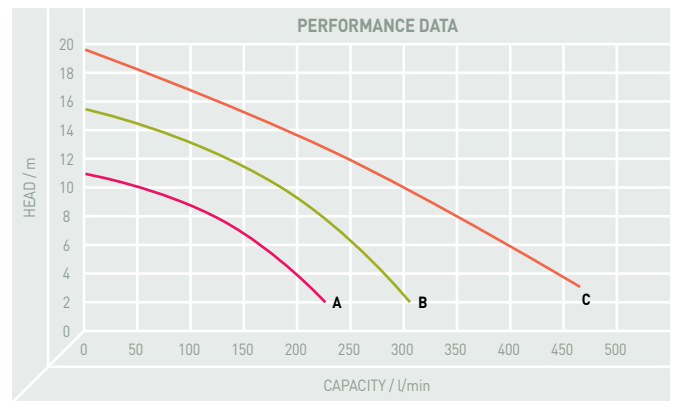
- SMALL WATER FEATURES
- CELLARS & BASEMENTS
- NUISANCE WATER
- CIVIL CONSTRUCTION
- QUARRIES & MINING
- HIRE FLEETS
- EMERGENCIES
- DEWATERING

FEATURES

- COMPACT, LIGHTWEIGHT DESIGN, STAINLESS STEEL OUTER CASING
- HIGH ABRASIVE RESISTANCE RESIN VORTEX IMPELLER
- AUTORESET THERMAL PROTECTOR
- DOUBLE MECHANICAL SEAL
- 7mm SOLIDS HANDLING
- 0.4 - 1.5kW OUTPUT
- 50mm DISCHARGE
- INTERCHANGEABLE MAJOR COMPONENTS BETWEEN TRENCHER®, LIBERATOR® AND PUDDLEPAL®, KEEPING COSTS DOWN FOR THE END USER (BASED ON MOTOR SIZE)



LIBERATOR®



	PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
01	LIB400 230V	/ A	2" / 50mm	7	10	0.4	13	PH/LIB400/230V	270
02	LIB400 230V*	/ A	2" / 50mm	7	10	0.4	13	PH/LIB400/230VF	300
03	LIB400 110V	/ A	2" / 50mm	7	10	0.4	13	PH/LIB400/110V	270
04	LIB400 110V*	/ A	2" / 50mm	7	10	0.4	13	PH/LIB400/110VF	300
05	LIB750 230V	/ B	2" / 50mm	7	10	0.75	16	PH/LIB750/230V	450
06	LIB750 230V*	/ B	2" / 50mm	7	10	0.75	16	PH/LIB750/230VF	480
07	LIB750 110V	/ B	2" / 50mm	7	10	0.75	16	PH/LIB750/110V	450
08	LIB750 110V*	/ B	2" / 50mm	7	10	0.75	16	PH/LIB750/110VF	480

*Automatic version with F Type Float.

**LIB400 and LIB750 models available with 304 stainless steel casing and components for arduous conditions.

Speak to our sales team for more information.

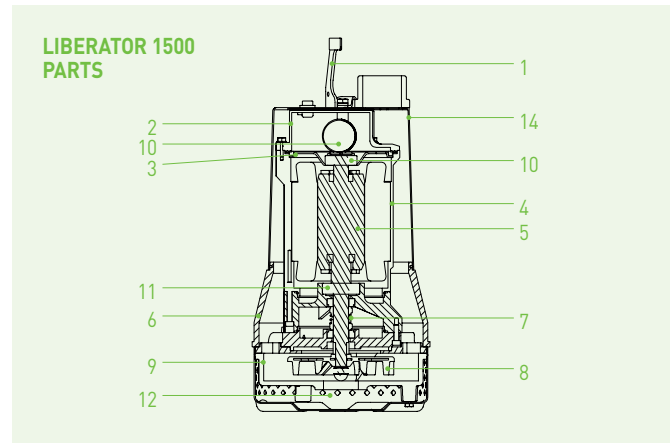
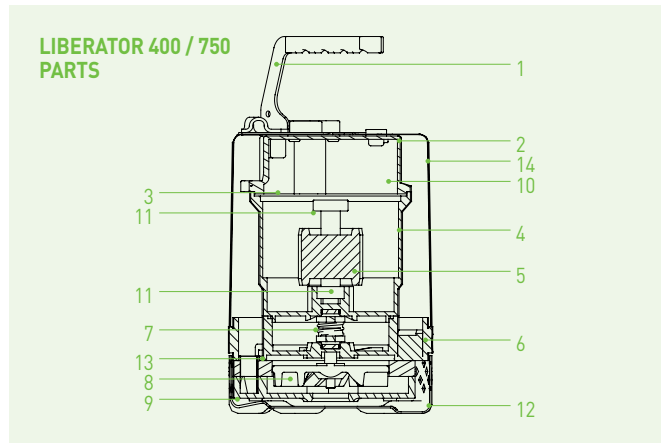
Please note that the Liberator has a top discharge - great for compact spaces.



Liberator™

PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
LIB1500 230V	/ C	2" / 50mm	7	10	1.5	13	PH/LIB1500/230V	1050
LIB1500 230V*	/ C	2" / 50mm	7	10	1.5	13	PH/LIB1500/230VF	1080
LIB1500 110V	/ C	2" / 50mm	7	10	1.5	13	PH/LIB1500/110V	1050
LIB1500 400V	/ C	2" / 50mm	7	10	1.5	16	PH/LIB1500/230V	1050
LIB1500 400V*	/ C	2" / 50mm	7	10	1.5	16	PH/LIB1500/230VF	1080

*Automatic version with F Type Float.



PARTS & MATERIAL LIST		
NUMBER	PART	MATERIAL
1	HANDLE	STEEL
2	MOTOR COVER	ADC12
3	BRACKET	STEEL
4	MOTOR HOUSING & STATOR	ADC12
5	SHAFT WITH ROTOR	SUS 410
6	OIL CHAMBER	ADC12
7	MECHANICAL SEAL	CA / CE & SIC / SIC
8	IMPELLER	HYTREL
9	PUMP CASING	FC 20
10	CAPACITOR	
11	BEARING	
12	STRAINER	SUS 304 / *NBR
13	VOLUTE LINER	NBR
14	PUMP HOUSING	SUS 304



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PuddlePal™

The PuddlePal® range, a versatile, portable, **submersible pump** for clean water. This pump features the ability to pump down to 1mm, therefore ideal for removing water from flat surfaces such as floors and flat-roofs.

APPLICATIONS

- SMALL WATER FEATURES
- CELLARS & BASEMENTS
- NUISANCE WATER
- CIVIL CONSTRUCTION
- QUARRIES & MINING
- HIRE FLEETS
- EMERGENCIES
- DEWATERING
- LIFT SHAFTS

FEATURES

- COMPACT, LIGHTWEIGHT DESIGN, STAINLESS STEEL OUTER CASING
- URETHANE IMPELLER
- AUTORESET THERMAL PROTECTOR
- DOUBLE MECHANICAL SEAL
- 6mm SOLIDS HANDLING
- 0.4 - 0.75kW OUTPUT
- 50mm DISCHARGE
- INTERCHANGEABLE MAJOR COMPONENTS BETWEEN TRENCHER®, LIBERATOR® AND PUDDLEPAL®, KEEPING COSTS DOWN FOR THE END USER (BASED ON MOTOR SIZE)



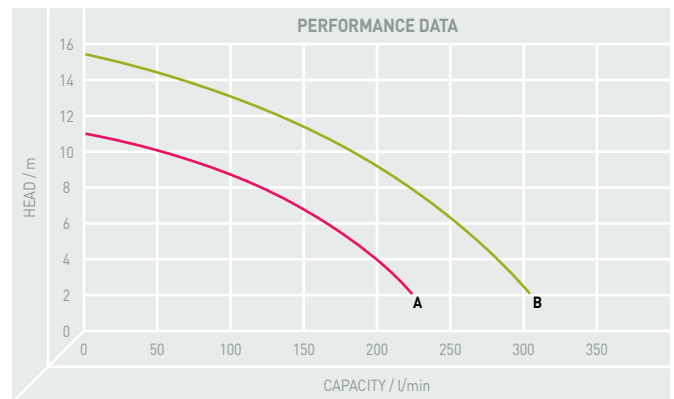
PUMPPAL



LEVELPAL



PUDDLEPAL



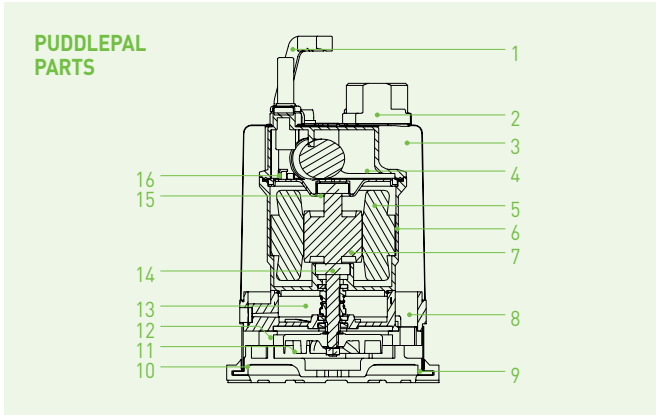
PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
PAL400 230V	/ A	2" / 50mm	6	10	0.4	12	PH/PAL400/230V	340
PAL400 230V*	/ A	2" / 50mm	6	10	0.4	12	PH/PAL400/230WW	550
PAL400 110V	/ A	2" / 50mm	6	10	0.4	12	PH/PAL400/110V	340
PAL400 110V*	/ A	2" / 50mm	6	10	0.4	12	PH/PAL400/110WW	550
PAL750 230V	/ B	2" / 50mm	6	10	0.75	15	PH/PAL750/230V	460
PAL750 230V*	/ B	2" / 50mm	6	10	0.75	15	PH/PAL750/230WW	655
PAL750 110V	/ B	2" / 50mm	6	10	0.75	15	PH/PAL750/110V	460
PAL750 110V*	/ B	2" / 50mm	6	10	0.75	15	PH/PAL750/110WW	655

*Complete with PumpPal and LevelPal.

Available in automatic versions, utilising the PumpPal and LevelPal. Please see above and the controls section for further information.



Puddlepal™



PARTS & MATERIAL LIST		
NUMBER	PART	MATERIAL
1	HANDLE	SS400
2	MOTOR HEAD COVER	ADC12
3	OUT COVER	SUS304
4	CAPACITOR	
5	STATOR	
6	MOTOR HOUSING	ADC12
7	SHAFT & ROTAR	SUS410
8	SEAL CASING	ADC12
9	STRAINER	SUS304
10	PUMP HOUSING	FC20
11	IMPELLER	TPU 1/2HP HYTREL 1HP
12	PACKING	NBR
13	MECHANICAL SEAL	SIC/SIC
14	LOWER BEARING	
15	UPPER BEARING	
16	MOTOR BRACKET	SS400



Full range of valves available, please speak to our sales team for further information.

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TT505C

The T-T505C is a fully submersible dewatering pump for clean or silty water. This is a robust and sturdy pump with main components in aluminium alloy thus making this pump ideal for site work in tough conditions.

Excellent protection against wear and motor contamination is obtained through a mechanical shaft seal and oil chamber, separating the motor from the pumped liquid, and a rubber coated suction plate.

APPLICATIONS

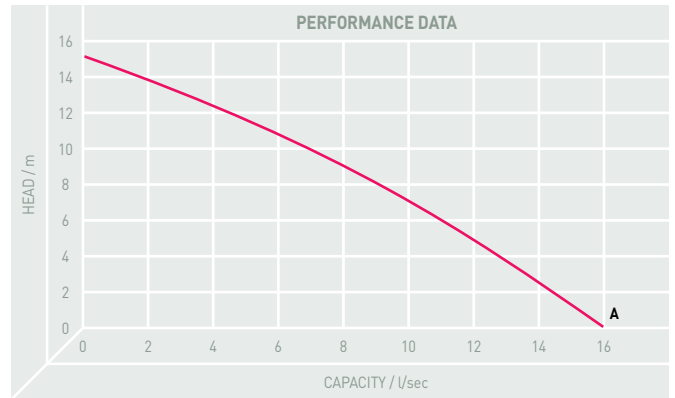
- LARGE WATER FEATURES
- NUISANCE WATER
- CIVIL CONSTRUCTION
- QUARRIES & MINING
- HIRE FLEETS
- EMERGENCIES
- DEWATERING

FEATURES

- CAST ALUMINIUM CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 10mm SOLIDS HANDLING
- 1.25kW OUTPUT
- 80mm DISCHARGE



TT505C



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
TT505C 110V/1Ph	/ A	3" / 80mm	10	10	1.25	34	PE/TT505C/2	1300
TT505C 230V/1Ph	/ A	3" / 80mm	10	10	1.25	34	PE/TT505C/1	1300
TT505C 400V/3Ph	/ A	3" / 80mm	10	10	1.25	30	PE/TT505C/3	1325

Handy Hint! Powerful pump for flooding emergencies and the drainage of clean and silty water.



KTV RANGE

The KTV range of heavy duty submersible dewatering pumps is ideal for professional use on construction sites. This range combines high-tech materials for maximum durability, yet remains lightweight and portable.

The fully automatic KTVE range is unique, as it is self-contained and does not require an external automatic control panel or float switches. Fitted with a durable level probe, the pump starts once water is sensed, and continues pumping for a further minute once water falls below the probe.

APPLICATIONS

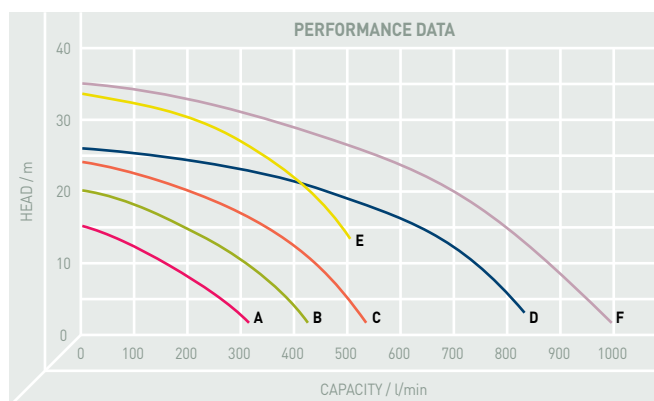
- SMALL WATER FEATURES
- LARGE WATER FEATURES
- INDUSTRIAL USE
- CIVIL CONSTRUCTION
- QUARRIES & MINING
- HIRE FLEETS
- EMERGENCIES
- DEWATERING

FEATURES

- ALLOY CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 6 - 8.5mm SOLIDS HANDLING
- 0.75 - 5.5kW OUTPUT
- 50 - 80mm DISCHARGE
- 2 POLE MOTOR



KTV



	PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	KW	WEIGHT kg	CODE	PRICE £
NON-AUTO TYPE	KTV2-8 400V/3Ph	/ A	2" / 50mm	6	10	0.75	15	PT/KTV2-8/3	820
	KTV2-1.5 400V/3Ph	/ B	2" / 50mm	8.5	20	1.5	26.5	PT/KTV2-1.5/3	1420
	KTV2-22 400V/3Ph	/ C	2" / 50mm	8.5	20	2.2	27	PT/KTV2-22/3	1570
	KTV2-37 400V/3Ph	/ D	3" / 80mm	8.5	20	3.7	42	PT/KTV2-37/3	2200
	KTV2-37H 400V/3Ph	/ E	2" / 50mm	8.5	20	3.7	42	PT/KTV2-37H/3	2200
	KTV3-55 400V/3Ph	/ F	3" / 80mm	8.5	20	5.5	53	PT/KTV2-55/3	2450
AUTO PROBE TYPE	KTVE2.75 400V/3Ph	/ A	2" / 50mm	6	10	0.75	15	PT/KTVE2.75-50	1245
	KTVE21.5-5 400V/3Ph	/ B	2" / 50mm	8.5	20	1.5	30	PT/KTVE21.5-51	1850
	KTVE22.2 400V/3Ph	/ C	2" / 50mm	8.5	20	2.2	30	PT/KTVE22.2-51/3	2100
	KTVE33.7 400V/3Ph	/ D	3" / 80mm	8.5	20	3.7	42	PT/KTVE33.7-50	2880
	KTVE35.5 400V/3Ph	/ F	3" / 80mm	8.5	20	5.5	53	PT/KTVE35.5-51	3550



Handy Hint! The KTVE Range is equipped with a new electrode type control system. This prevents unnecessary dry operation and is therefore more environmentally friendly.

KTZ RANGE

These heavy duty submersible dewatering pumps are designed for the toughest of pumping jobs in the worst possible conditions where reliability and efficiency are essential.

APPLICATIONS

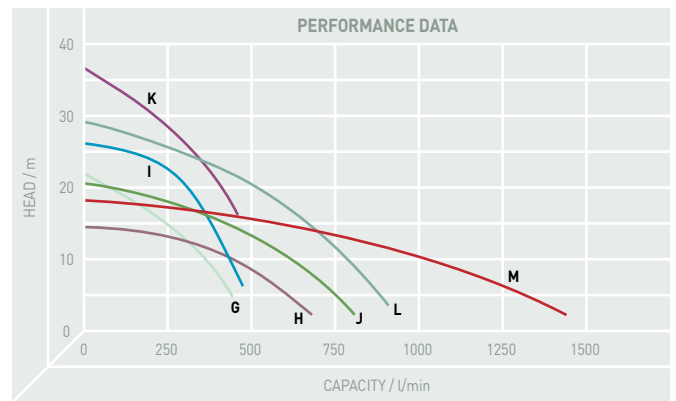
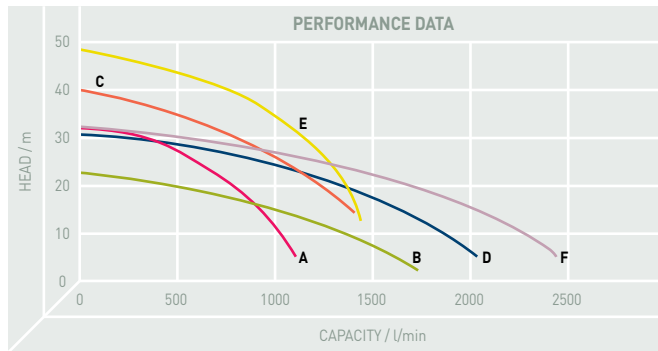
- DEWATERING
- CIVIL CONSTRUCTION
- QUARRIES & MINING
- HIRE FLEETS
- SILT REMOVAL & SAND TRANSFER
- INDUSTRIAL USE
- EMERGENCIES

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 8.5 - 20mm SOLIDS HANDLING
- 1.5 - 11kW OUTPUT
- 50 - 150mm DISCHARGE
- 2 POLE MOTOR



KTZ



PUMP TYPE	CURVE	OUTLET "/ mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
KTZ-21.5 400V/3Ph	/ G	2" / 50mm	8.5	20	1.5	35	PT/KTZ21.5-50	1440
KTZ-31.5 400V/3Ph	/ H	3" / 80mm	8.5	20	1.5	35	PT/KTZ31.5-50	1440
KTZ-22.2 400V/3Ph	/ I	2" / 50mm	8.5	20	2.2	40	PT/KTZ22.2-50	1590
KTZ-32.2 400V/3Ph	/ J	3" / 80mm	8.5	20	2.2	40	PT/KTZ32.2-50	1590
KTZ-23.7 400V/3Ph	/ K	2" / 50mm	8.5	20	3.7	69	PT/KTZ23.7-51	2250
KTZ-33.7 400V/3Ph	/ L	3" / 80mm	8.5	20	3.7	69	PT/KTZ33.7-51	2250
KTZ-43.7 400V/3Ph	/ M	4" / 100mm	8.5	20	3.7	69	PT/KTZ43.7-51	2250
KTZ-35.5 400V/3Ph	/ A	3" / 80mm	10	20	5.5	88	PT/KTZ35.5-50	2550
KTZ-45.5 400V/3Ph	/ B	4" / 100mm	10	20	5.5	88	PT/KTZ45.5-50	2550
KTZ-47.5 400V/3Ph	/ C	4" / 100mm	20	20	7.5	110	PT/KTZ47.5-50	3400
KTZ-67.5 400V/3Ph	/ D	6" / 150mm	20	20	7.5	113	PT/KTZ67.5-50	3400
KTZ-411 400V/3Ph	/ E	4" / 100mm	10	20	11	140	PT/KTZ411-50	4450
KTZ-611 400V/3Ph	/ F	6" / 150mm	10	20	11	162	PT/KTZ611-50	4450

Handy Hint! These pumps have a top discharge, so are ideal for confined spaces. They can also be run continuously in air.



KRS RANGE

The KRS range of heavy duty submersible site drainage pumps is designed for the toughest of pumping applications in difficult conditions where reliability and efficiency are essential.

APPLICATIONS

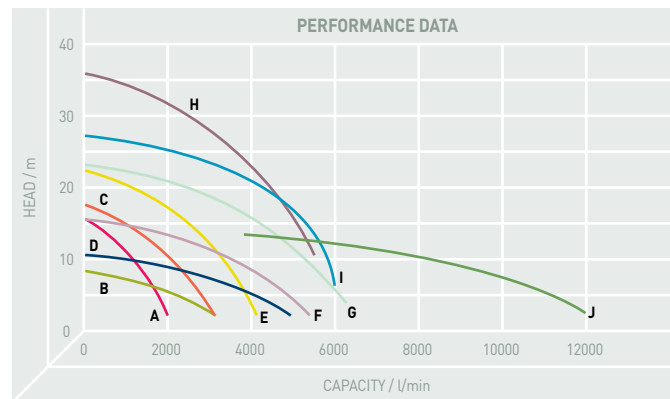
- DEWATERING
- CIVIL CONSTRUCTION
- QUARRIES & MINING
- HIRE FLEETS
- SILTY WATER REMOVAL
- INDUSTRIAL USE
- EMERGENCIES

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 12 - 25mm SOLIDS HANDLING
- 3.0 - 22kW OUTPUT
- 100 - 250mm DISCHARGE
- 4 POLE MOTOR



KRS



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
KRS-43 400V/3Ph	/ A	4" / 100mm	12	20	3.0	80	PT/KRS-43	2950
KRS-63 400V/3Ph	/ B	6" / 150mm	15	20	3.0	102	PT/KRS-63	3200
KRS-65.5 400V/3Ph	/ C	6" / 150mm	20	20	5.5	102	PT/KRS-65.5	3850
KRS-85.5 400V/3Ph	/ D	8" / 200mm	20	20	5.5	110	PT/KRS-85.5	4000
KRS2-69 400V/3Ph	/ E	6" / 150mm	20	20	9.0	140	PT/KRS2-69/3	4650
KRS2-89 400V/3Ph	/ F	8" / 200mm	30	20	9.0	162	PT/KRS2-89/3	5250
KRS-815 400V/3Ph	/ G	8" / 200mm	25	20	15.0	242	PT/KRS-815	6400
KRS-822 400V/3Ph	/ H	8" / 200mm	25	20	22.0	397	PT/KRS-822	9600
KRS-822L 400V/3Ph	/ I	8" / 200mm	25	20	22.0	397	PT/KRS-822L	9900
KRS-1022-50 400V/3Ph	/ J	10" / 250mm	25	20	22.0	437	PT/KRS1022-50	13800



Handy Hint! These pumps have a top discharge, so are ideal for confined spaces. They can also be run continuously in air.

KTV2 / KRS2 RANGE

This range of submersible sand pumps has a built in agitator, to stir sand and silt into suspension for pumping. Maximum of 5% solid to liquid acceptable. Excellent wear resistance is given by the utilisation of chromium steel casting for all wearing parts, eg. agitator, impeller and wear plates.

APPLICATIONS

- QUARRIES & MINING
- HIRE FLEETS
- SILT REMOVAL & SAND TRANSFER
- CIVIL CONSTRUCTION
- EMERGENCIES
- DEWATERING

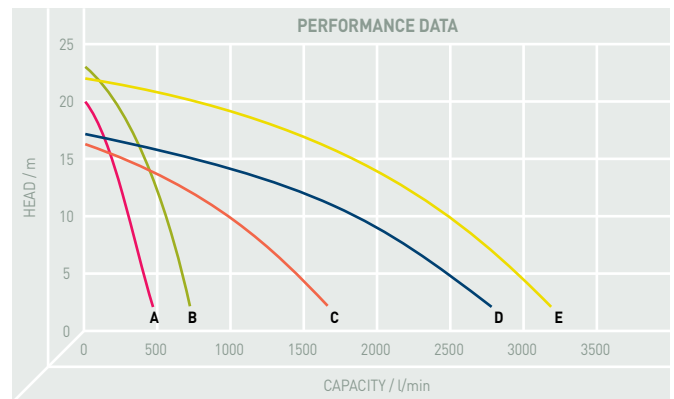
FEATURES

- KRS2: CAST IRON CONSTRUCTION
KTV2: ALLOY CONSTRUCTION
- TOUGH CONSTRUCTION
- AGITATOR - HARD WEARING
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 10 - 30mm SOLIDS HANDLING
- 2.0 - 9.0kW OUTPUT
- 50 - 150mm DISCHARGE
- 4 POLE MOTOR



KTV2

KRS2



	PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
01	KTV2-50 400V/3Ph	/ A	2" / 50mm	10	20	2.0	30.5	PT/KTV2-50/3	1990
02	KTV2-80 400V/3Ph	/ B	3" / 80mm	10	20	3.0	43.5	PT/KTV2-80/3	2460
03	KRS2-80 400V/3Ph	/ C	3" / 80mm	30	20	4.0	112	PT/KRS2-80/3	3900
04	KRS2-100 400V/3Ph	/ D	4" / 100mm	30	20	6.0	152	PT/KRS2-100/3	4300
05	KRS2-150 400V/3Ph	/ E	6" / 150mm	30	20	9.0	177	PT/KRS2-150/3	5100

Threaded discharge connector supplied as standard.
Also see the GPN range for larger agitator pumps.



GPN RANGE

The GPN pumps are robust agitator pumps. These pumps feature a special-steel impeller and suction plate, which greatly increases the pump's life. The cast casing is designed to have a wide free passage and is made of anti-abrasion material.

APPLICATIONS

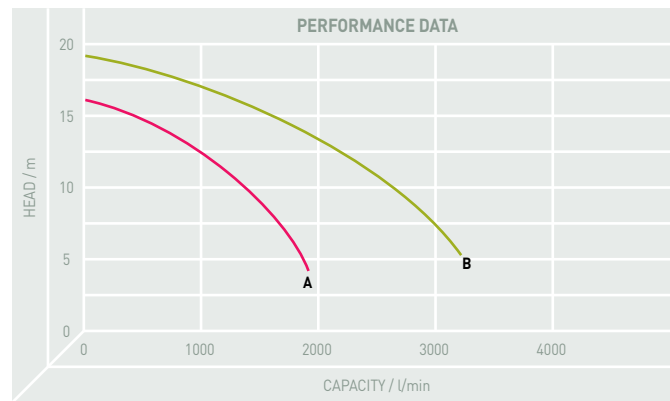
- QUARRIES & MINING
- SILT REMOVAL & SAND TRANSFER
- CIVIL CONSTRUCTION
- EMERGENCIES
- DE-WATERING
- HIRE FLEETS

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 30mm SOLIDS HANDLING
- 5.5 - 11kW OUTPUT
- 80 - 100mm DISCHARGE
- 4 POLE MOTOR



GPN



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
GPN3-80 400V/3Ph	/ A	3" / 80mm	30	20	5.5	150	PT/GPN3-80/3	4550
GPN3-100 400V/3Ph	/ B	4" / 100mm	30	20	11	225	PT/GPN3-100/3	6800

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NKZ RANGE

All pumps in the NKZ series provide very smooth passage for sandy earth and slime. A cooled motor ensures long and continuous pump operations exposed to the air. These pumps have a cast body.

APPLICATIONS

- QUARRIES & MINING
- SILT REMOVAL & SAND TRANSFER
- CIVIL CONSTRUCTION
- EMERGENCIES
- DEWATERING
- HIRE FLEETS

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 20 - 30mm SOLIDS HANDLING
- 2.2 - 11kW OUTPUT
- 80 - 100mm DISCHARGE
- 4 POLE MOTOR



NKZ



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
NKZ3-C3 400V/3Ph	/ A	3" / 80mm	30	20	2.2	95	PT/NKZ3-C3	3450
NKZ3-D3 400V/3Ph	/ B	3" / 80mm	30	20	3.7	105	PT/NKZ3-D3	3650
NKZ-80H 400V/3Ph	/ C	3" / 80mm	20	20	5.5	120	PT/NKZ3-80H	4700
NKZ-100H 400V/3Ph	/ D	4" / 100mm	20	20	11	197	PT/NKZ3-100H	6500

LH-W RANGE

The LH-W range of high head submersible dewatering pumps is robust with excellent wear resistance and low maintenance design.

Each pump features a superior mechanical seal which will resist water pressure to 100 metres. The LH-W range has twin impellers, whereas pumps within the LH range have single impellers.

APPLICATIONS

- WATER FEATURES
- DEWATERING
- QUARRIES & MINING
- IRRIGATION
- CIVIL CONSTRUCTION
- HIRE FLEETS
- DEEP WELLS
- EMERGENCIES
- INDUSTRIAL USE

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 6 - 8.5mm SOLIDS HANDLING
- 3 - 30kW OUTPUT
- 50 - 100mm DISCHARGE
- 2 POLE MOTOR



LH-W



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
LH 23.0W 400V/3Ph	/ A	2" / 50mm	6	20	3.0	50	PT/LH23.0W/3	2700
LH 25.5W 400V/3Ph	/ B	2" / 50mm	6	20	5.5	84	PT/LH25.5W/3	4400
LH 311W 400V/3Ph	/ C	3" / 80mm	8.5	20	11.0	134	PT/LH311W/3	8500
LH 322W 400V/3Ph	/ D	3" / 80mm	8.5	20	22.0	308	PT/LH322W/3	15800
LH 430W 400V/3Ph	/ E	4" / 100mm	8.5	20	30.0	328	PT/LH430/3	24550



For larger, other pumps of this type, please see the LH Range.

LH RANGE

The LH range of high head submersible dewatering pumps is robust with excellent wear resistance and low maintenance design.

Each pump features a superior mechanical seal which will resist water pressure up to 100 metres.

APPLICATIONS

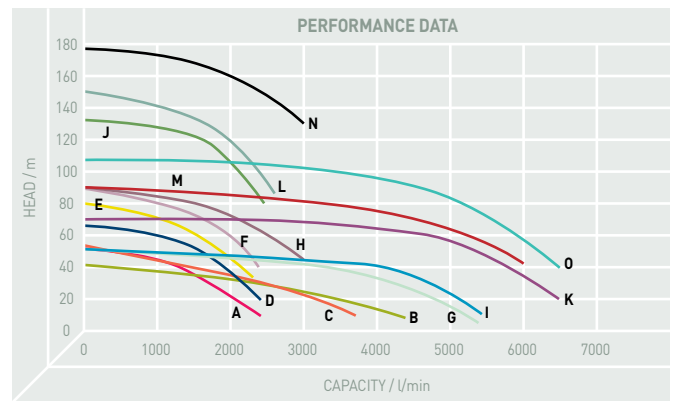
- DEWATERING
- IRRIGATION
- QUARRIES & MINING
- HIRE FLEET
- DEEP WELLS
- CIVIL CONSTRUCTION
- EMERGENCIES
- INDUSTRIAL USE
- LARGE WATER FEATURES

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 8.5 - 20mm SOLIDS HANDLING
- 15 - 75kW OUTPUT
- 100 - 200mm DISCHARGE
- 2 POLE MOTOR



LH



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
LH615 400V/3Ph	/ A	6" / 150mm	8.5	20	15	213	PT/LH615/3	7800
LH619 400V/3Ph	/ B	6" / 150mm	12	20	19	350	PT/LH619/3	11000
LH622 400V/3Ph	/ C	6" / 150mm	12	20	22	360	PT/LH622/3	11000
LH422 400V/3Ph	/ D	4" / 100mm	6	20	22	350	PT/LH422/3	11000
LH430 400V/3Ph	/ E	4" / 100mm	6	20	30	355	PT/LH430/3	12500
LH637 400V/3Ph	/ F	6" / 150mm	6	20	37	495	PT/LH637/3	18000
LH837 400V/3Ph	/ G	8" / 200mm	20	20	37	485	PT/LH837/3	18000
LH645-50 400V/3Ph	/ H	6" / 150mm	6	20	45	510	PT/LH645/3	20800
LH845-50 400V/3Ph	/ I	8" / 200mm	20	20	45	510	PT/LH845/3	22000
LH675-50 400V/3Ph	/ J	6" / 150mm	6	20	75	900	PT/LH675/3	42000
LH875 400V/3Ph	/ K	8" / 200mm	20	20	75	865	PT/LH875/3	P.O.A.
LH690 400V/3Ph	/ L	6" / 150mm	6	20	90	1100	PT/LH690/3	P.O.A.
LH890 400V/3Ph	/ M	8" / 200mm	20	20	90	1150	PT/LH890/3	P.O.A.
LH6110 400V/3Ph	/ N	6" / 150mm	6	20	110	1200	PT/LH6110/3	P.O.A.
LH8110 400V/3Ph	/ O	8" / 200mm	20	20	110	1250	PT/LH8110/3	P.O.A.

The LH Range is ideal for professional, deep well draining. They also have a top discharge, so fit into compact spaces.



HY (HYDRAULIC) / EL (ELECTRIC DREDGING RANGE

The HY and EL ranges of dredging pumps will pump settled slurry, containing solids up to 125mm diameter, and concentration up to 70% by weight of the liquid. Standard submersible pumps can have a problem in handling solids which settle at the bottom of the sump or tank, and while all the liquid is pumped, the normal intake velocity is insufficient to pick up solids for pumping. On our dredging pumps, a heavy-duty agitator below the impeller disturbs the solids, creating a slurry which is easily pumped, and at the same time keeps the pump inlet port clear of potentially blocking solids.

APPLICATIONS

- TANK CLEAN-OUT
- RIVER, LAKE, MARINA, CANAL CLEAN-OUT
- MINING & PIPE LAYING (TRENCHES)
- WASTE COLLECTION PITS

FEATURES

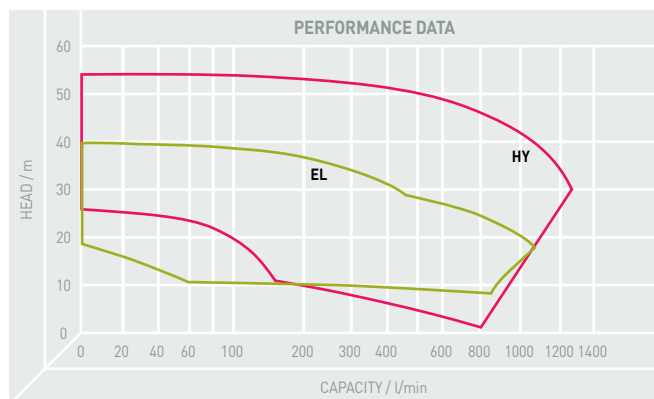
- CHROMIUM CAST CONSTRUCTION
- SERIES OF LIPSEALS
- SOLIDS HANDLING
HY: 35 - 120mm
EL: 20 - 120mm
- OUTPUT
HY: 25 - 295kW
EL: 3.7 - 110kW
- DISCHARGE
HY: 100 - 350mm
EL: 100 - 300mm



HY



EL



An HY dredging pump was used in the decommissioning of some works in Kent. 12m diameter x 12m deep tanks, deep filled with silt from a cement plant were emptied by a contractor taking in excess of 3 months, however after the installation of a HY8/5C, the tanks took just days to clear and the client was delighted with the results.

For further information, accurate pump selection, technical details and cost, please contact our Sales Team.



These pumps are for the most demanding applications. Why not see this product in action, visit: http://www.youtube.com/watch?v=TdahS320_zU

WP25

A high performance water pump with hydraulic motor designed for pumping clear and muddy water with suspended solids with dimensions up to 20mm. The hydraulic functioning assures high power, safety resistance to abrasive liquids and the possibility to run dry. Thanks to its robust design and long operative life, the WP25 is ideal in professional use, maintenance of utility networks, dewatering, civil protection and road maintenance works.

With implicit safety thanks to the absence of electricity, and capability of handling thick and muddy liquids these pumps can be powered by small power packs, mini excavators, and trucks making them ideal for the construction industry.

APPLICATIONS

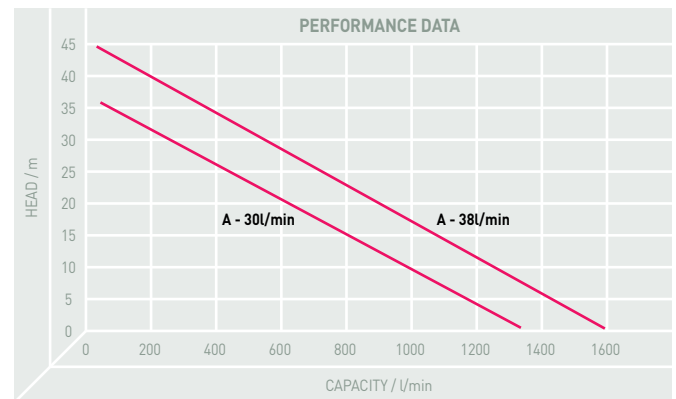
- DEWATERING
- DRAINAGE
- NUISANCE

FEATURES

- HEAD UP TO 45m
- POSSIBILITY TO RUN DRY WITHOUT DAMAGES
- ROBUST CONSTRUCTION AND MINIMAL MAINTENANCE NEEDS
- IMPLICIT SAFETY THANKS TO THE ABSENCE OF ELECTRICITY, ZERO PROBLEMS OF PRIMING
- THE PUMPING CHAMBER CAN BE OPEN IN A FEW SECONDS FOR INSPECTION AND CLEANING



WP25



PUMP TYPE	CURVE	OUTLET " / mm	SOLIDS HANDLING mm	FLOW l/min	WEIGHT kg	CODE	PRICE £
WP25	/ A	2 1/2" / 60mm	20	1600	9.5	PD/TT-WP25	2100

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SP20 / SP21 (ATEX)

SP20 and SP21 (ATEX) are compact and powerful hydraulic trash pumps with unbeatable power, size and weight ratios. With their robust construction they require minimal maintenance and have the possibility to run dry without damages.

With implicit safety thanks to the absence of electricity, and capability of handling thick and muddy liquids these pumps can be powered by small power packs, mini excavators, and trucks making them ideal for the construction industry.

Designed to withstand high resistance to impacts and abrasivity, and with its small dimensions and lightweight construction it makes it an ideal option for the smallest of applications including trenches and manholes.

APPLICATIONS

- DEWATERING
- CONSTRUCTION
- INDUSTRIAL

FEATURES

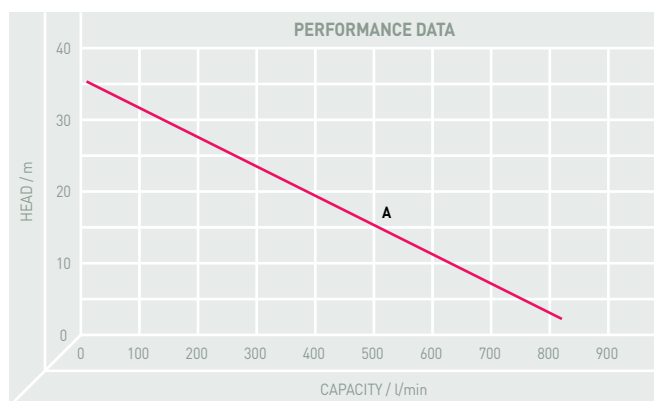
- STAINLESS STEEL PUMP BODY
- CAST IRON IMPELLER
- FLOW CAPACITY UP TO 800 l/min
- HEAD UP TO 35m (WATER PRESSURE 3.5 BAR)



SP20 (ATEX)



SP21 (ATEX)



PUMP TYPE	CURVE	OUTLET " / mm	SOLIDS HANDLING mm	FLOW l/min	WEIGHT kg	CODE	PRICE £
SP20	/ A	2" / 50mm	30	800	8	PD/TT-SP20	1900
SP21	/ A	2" / 50mm	30	800	8	PD/TT-SP21	3500

SP35 / SP45

High performance 3" and 4" submersible trash water pumps.

The SP35 pump has stainless steel impeller and body, with an exclusive single channel closed impeller and has the ability to pump very abrasive fluids and bentonite. The pump is available with hydraulic motor in cast iron and ATEX certification for pumping flammable liquids or for uses in mines or explosive applications.

SP45 is a professional trash pump designed for pumping slurries, trash waters and thick liquids with density concentration in the fluid up to 25% and suspended solids with dimensions up to 70mm.

The pump body is fabricated in stainless steel with urethane wear plate, designed to ensure durability, and resistance to abrasivity, impacts and rust. The pump is ideal in large movements of water, in emergencies after floods, in military works, for sewage treatment facilities, manhole dewatering.

APPLICATIONS

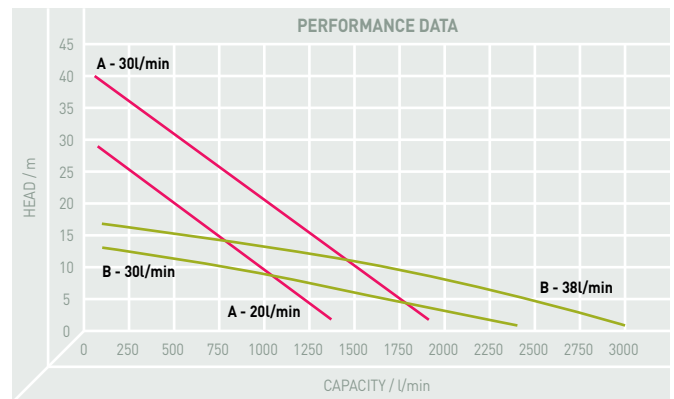
- DEWATERING
- DRAINAGE
- NUISANCE WATER
- SEWAGE



SP35



SP45



PUMP TYPE	CURVE	OUTLET " / mm	SOLIDS HANDLING mm	OIL FLOW l/min	WEIGHT kg	CODE	PRICE £
SP35	/ A	3" / 80mm	50	1900	17	PD/TT-SP35	2900
SP45	/ B	4" / 100mm	70	3000	28	PD/TT-SP45	3100

FEATURES

- HEAD
SP35: UP TO 35m
SP45: UP TO 16m
- 30mm SOLIDS HANDLING
- POSSIBILITY TO RUN DRY WITHOUT DAMAGES
- ROBUST CONSTRUCTION AND MINIMAL MAINTENANCE NEEDS

- IMPLICIT SAFETY THANKS TO THE ABSENCE OF ELECTRICITY, ZERO PROBLEMS OF PRIMING
- THE PUMPING CHAMBER CAN BE OPEN IN A FEW SECONDS FOR INSPECTION AND CLEANING



SINGLE CHANNEL IMPELLER

Please speak to our Sales Team for further information.



SP55 / SP65

SP55 and SP65 are high performance trash pumps ideal in large dewatering works, rental activity, civil protection and military sector, sewage treatment plants and where it is necessary to move quickly large volumes of water and heavy loaded fluids.

The pumps' main characteristics are their high power and impeller which has knives that can cut suspended solids like sea weeds, straw, rags, ropes, sediments and various linear fibres. The hydraulic functioning gives a long series of operation and performance.

With implicit safety thanks to the absence of electricity, and capability of handling thick and muddy liquids these pumps can be powered by small power packs, mini excavators, and trucks making them ideal for the construction industry.



SP55

SP65

APPLICATIONS

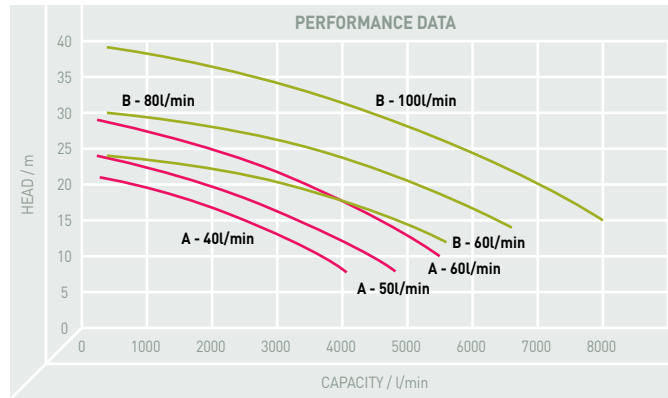
- DEWATERING
- SEWAGE
- TREATMENT PLANTS

FEATURES

- HEAD
SP55: UP TO 29m
SP65: UP TO 39m
- STAINLESS STEEL PUMP BODY
- STEEL IMPELLER



IMPELLER



PUMP TYPE	CURVE	OUTLET " / mm	SOLIDS HANDLING mm	FLOW l/min	WEIGHT kg	CODE	PRICE £
SP55	/ A	5" / 125mm	55	5500	95	PD/TT-SP55	9000
SP65	/ B	6" / 150mm	65	8000	135	PD/TT-SP65	11000

**ADDITIONAL OPTION -
SLURRY GATE FLUID
MIXER VALVE SYSTEM**



Please speak to our Sales Team for further information.

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ENGINE DRIVEN
PUMPS
ENGINE DRIVEN

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ENGINE DRIVEN INDEX

PUMP TYPE	MAX FLOW m ³ /h	MAX FLOW l/sec	MAX HEAD m	APPLICATIONS				PAGE
				AGRICULTURE	DRAINAGE WATER	IRRIGATION	QUARRY/ MINES	
SCR	63	17.5	35	✓	✓	✓	✓	04
TDS	78	21.67	30	✓	✓	✓	✓	05
TED	78	21.67	30	✓	✓	✓	✓	06
DIAPHRAGM	15.2	4.22	17	✓	✓	✓	✓	07

ENGINE DRIVEN PUMP ACCESSORIES



For the full range visit www.ttpumps.com

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INTRODUCTION

Fantastic range of portable engine driven pumps that can go anywhere when fast removal of nuisance water is required.

Designed for high performance and a reliable long life, these pumps feature a genuine Honda petrol engine.

This lightweight range includes semi-trash, trash and diaphragm pumps with varying levels of solids handling from grey water through to sludge and stone.

RANGE

- SCR
- TDS-SEMI-TRASH
- TED-TRASH
- DIAPHRAGM PUMPS

APPLICATIONS

- Dewatering
- Washdown
- Irrigation
- Emergency
- Construction & building sites
- Hire fleets
- Filling & emptying
- Pumping waste



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SCR RANGE

These powerful pumps are light in construction with a combination of aluminium for the outer casing and cast iron for the impeller and wear plate. Combined with their robust design they provide a long reliable life, and the mechanical seal ensures perfect shaft sealing with the absolute minimum maintenance.

APPLICATIONS

- DEWATERING
- WASHDOWN
- IRRIGATION
- EMERGENCY
- HIRE FLEETS
- CONSTRUCTION SITES

FEATURES

- CLEAN AND GREY WATER
- PETROL 4-S HONDA ENGINE
- 5mm SOLIDS HANDLING
- SELF-PRIMING



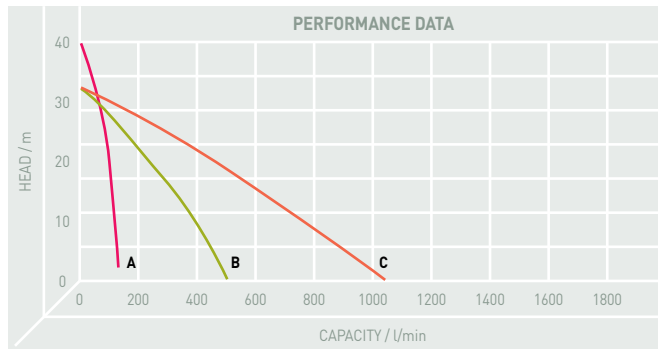
SCR-50HX



SCR-80HX



SCR-254HX



PUMP TYPE	CURVE	OUTLET "/ mm	SOLIDS HANDLING mm	ENGINE TYPE	HORSE POWER hp	WEIGHT kg	CODE	PRICE £
SCR-254HX	/ A	1" / 25mm	5	HONDA PETROL 4-S	1.1	6	PA/SCR-254HX	390
SCR50HX	/ B	2" / 50mm	5	HONDA PETROL 4-S	4.0	23.5	PA/SCR-50HX	490
SCR80HX	/ C	3" / 80mm	5	HONDA PETROL 4-S	5.5	30	PA/SCR-80HX	580

Please also see the TDS and TED ranges for similar engine-driven pumps for solids handling.



TDS RANGE - SEMI TRASH

The powerful TDS range of engine driven pumps are of light construction with a combination of aluminium for the outer casing and cast iron for the impeller and wear plate. TDS pumps are constructed for grey and trash water with solids up to 20mm.

APPLICATIONS

- DEWATERING
- WASHDOWN
- IRRIGATION
- EMERGENCY
- FILLING & EMPTYING
- CONSTRUCTION SITES
- HIRE FLEETS

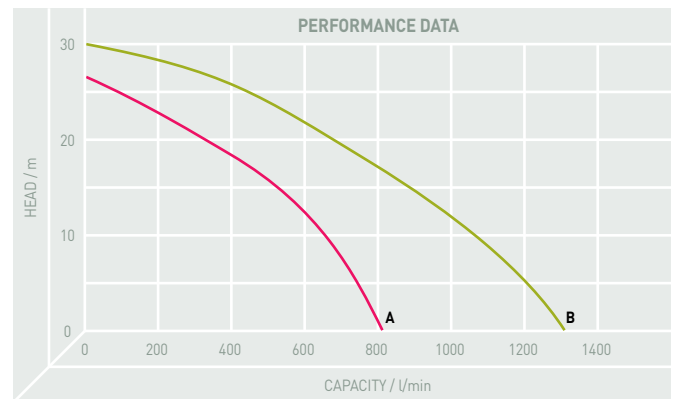
FEATURES

- SIMPLE MAINTENANCE
- LIGHTWEIGHT
- 4-STROKE HONDA ENGINE
- HEAVY DUTY CONSTRUCTION
- EXCELLENT SELF-PRIMING



TDS-80

TDS-50



PUMP TYPE	CURVE	OUTLET " / mm	SOLIDS HANDLING mm	ENGINE TYPE	HORSE POWER hp	WEIGHT kg	CODE	PRICE £
TDS-50H	/ A	2" / 50mm	20	PETROL 4-S	4.0	24	PT/TDS-50H	690
TDS-80H	/ B	3" / 80mm	20	PETROL 4-S	5.5	27	PT/TDS-80H	850

TED RANGE - TRASH

The powerful TED range of engine driven pumps are of light construction with a combination of aluminium for the outer casing and cast iron for the impeller and wear plate. TED pumps are heavy duty trash and slurry pumps designed for solids handling up to 35mm, and feature simple access to pump casing, making cleaning and maintenance easy.

APPLICATIONS

- DEWATERING
- WASHDOWN
- IRRIGATION
- EMERGENCY
- FILLING & EMPTYING
- CONSTRUCTION SITES
- HIRE FLEETS

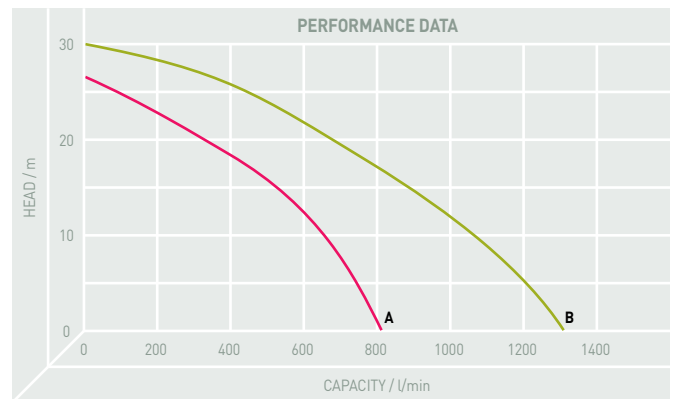
FEATURES

- EXCELLENT SOLIDS HANDLING
- SIMPLE MAINTENANCE
- LIGHTWEIGHT
- 4-STROKE HONDA ENGINE
- HEAVY DUTY CONSTRUCTION



TED-80H

TED-50H



PUMP TYPE	CURVE	OUTLET " / mm	SOLIDS HANDLING mm	ENGINE TYPE	HORSE POWER hp	WEIGHT kg	CODE	PRICE £
TED-50H	/ A	2" / 50mm	25	PETROL 4-S	5.5	34	PT/TED-50H	1300
TED-80H	/ B	3" / 80mm	35	PETROL 4-S	8.0	57	PA/SWT-80HX	1750

Please also see the SCR and TDS ranges for similar pumps.



DIAPHRAGM PUMPS

Heavy duty engine driven self-priming diaphragm pump range utilising a genuine Honda engine available in two sizes 2" and 3".

APPLICATIONS

- CONSTRUCTION WORK
- PUMPING WATER CONTAINING A SMALL AMOUNT OF SAND AND STONE
- CLEANING SEPTIC TANKS
- PUMPING WASTE AND EXCRETION

FEATURES

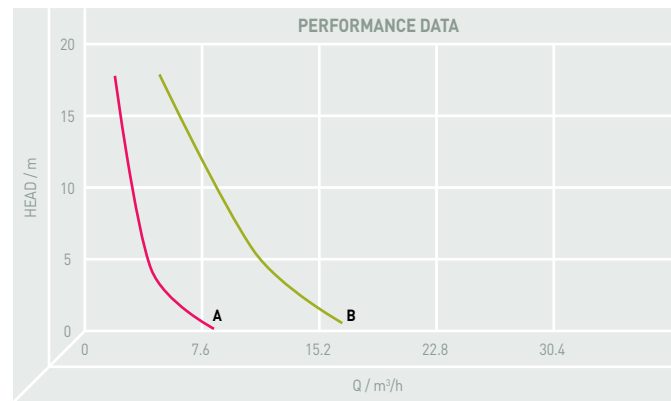
- COMPACT DESIGN AND LIGHT WEIGHT
- PUMP BODY AND GEAR CASE ARE MADE BY HEAVY-DUTY DIE CAST ALUMINIUM, TO KEEP THE WEIGHT DOWN FOR EASY TRANSPORT BETWEEN JOB SITES
- EASY MAINTENANCE
- CLOSED COUPLED HIGH-PERFORMANCE ENGINE
- CAPABLE OF RUNNING DRY WITHOUT DAMAGE



SMD 50HX



SMD 80HX



PUMP TYPE	CURVE	OUTLET " / mm	SOLIDS HANDLING mm	ENGINE TYPE	CODE	PRICE £
SMD50	/ A	2" / 50mm	25	HONDA	PA/SMD-50HX	1750
SMD80	/ B	3" / 80mm	35	HONDA	PA/SMD-80HX	1950



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INDUSTRIAL / LUBRICANT / FUEL PUMPS

ENERGY PUMPS
LUBRICANT /
INDUSTRIAL /

INDUSTRIAL / LUBRICANT / FUEL PUMPS INDEX

PUMP TYPE	MAX FLOW m ³ /h	MAX FLOW l/sec	MAX HEAD m	APPLICATIONS			PAGE
				 INDUSTRIAL	 QUARRY/ MINES	 TRANSPORT	
EP BRONZE	29.9	8.3	40	✓	✓	✓	04
EP STAINLESS STEEL	13.5	3.75	30	✓	✓	✓	05
AG35	3	0.83	12.75	✓	✓	✓	06
AG46	2.88	0.8	20.4	✓	✓	✓	06
AG90	5.4	1.5	15.3	✓	✓	✓	07
AG88	5.4	1.5	25.5	✓	✓	✓	08
CG150	13.68	3.8	20.4	✓	✓	✓	09
AG ATEX RANGE	9	2.5	30.6	✓	✓	✓	10
LUBRICANT GEAR PUMPS	1.2	0.33	122.4	✓	✓	✓	13
PNEUMATIC LUBRICANT PUMPS	31.51	0.42	816	✓	✓	✓	14
UREA TRANSFER	3.3	0.92	30.6	✓	✓	✓	20
CDLK	29	8.05	70	✓	✗	✗	21
E RANGE	100	27.78	27	✓	✓	✓	22
J RANGE	180	50	40	✓	✓	✓	23



INTRODUCTION

We have an extended range of Industrial / Lubricant and Fuel Pumps as a result of popular demand from our customers, who require reliable and rugged products for day to day use.

Our heavy duty products are continuously rated and fully repairable, being suited for:

- Urea
- Fuel
- Light Oils
- Lubricants
- Grease

APPLICATIONS

- Fuel, oil & water transfer
- Barrel filling
- Decanting
- Agriculture & farming
- Building & construction
- Transport
- Marine

PRODUCTS

- Transfer pumps
- ATEX transfer pumps
- Mini fuel stations
- Pneumatic pumps
- Hand pumps
- Nozzles, filters & meters
- Flow meters



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EP BRONZE RANGE

EP range of self-priming transfer pumps with pump body and impeller constructed in bronze for transfer of water and liquids with bronze compatibility. This pump also features a with a bi-directional motor.

APPLICATIONS

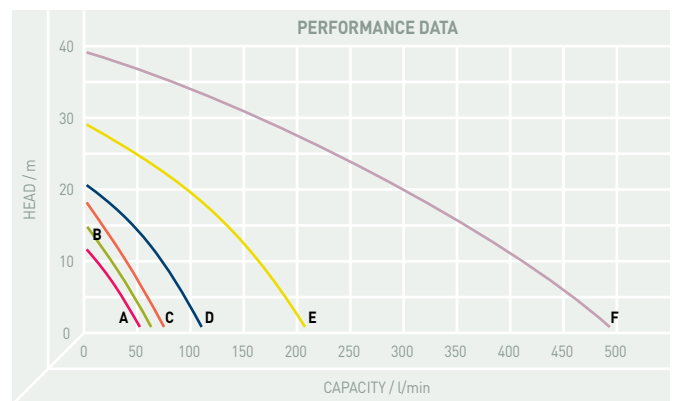
- WATER TRANSFER
- FUEL OIL TRANSFER
- EMPTYING OF BUND ENCLOSURES
- DECANTING
- BARREL FILLING

FEATURES

- BRONZE CONSTRUCTION
- SELF-PRIMING
- REVERSIBLE OPERATION
- EXCELLENT PRIMING ACTION
- 12 & 24 VOLT AVAILABLE FOR VEHICLE USE



EP BRONZE WITH TROLLEY



	PUMP TYPE	CURVE	OUTLET " / mm	kW	WEIGHT kg	CODE	PRICE £
01	EP25 12 VOLT	/ A	1" / 25mm	0.45	9.2	PL/EP25/12	550
	EP25 24 VOLT	/ A	1" / 25mm	0.45	9.5	PL/EP25/24	550
02	EP25 230V/1Ph	/ B	1" / 25mm	0.45	9.3	PL/EP25/1	310
	EP25 110V/1Ph	/ B	1" / 25mm	0.45	9.5	PL/EP25/2	310
03	EP25 400V/3Ph	/ B	1" / 25mm	0.56	9.5	PL/EP25/3	325
04	EP30 230V/1Ph	/ C	1 1/4" / 32mm	0.75	14	PL/EP30/1	440
	EP30 110V/1Ph	/ C	1 1/4" / 32mm	0.75	14	PL/EP30/2	490
05	EP30 400V/3Ph	/ C	1 1/4" / 32mm	0.75	13	PL/EP30/3	440
06	EP40 230V/1Ph	/ D	1 1/2" / 40mm	0.75	18	PL/EP40/1	490
	EP40 110V/1Ph	/ D	1 1/2" / 40mm	0.75	18	PL/EP40/2	580
	EP40 400V/3Ph	/ D	1 1/2" / 40mm	0.75	18	PL/EP40/3	490
07	EP50 400V/3Ph	/ E	2" / 50mm	1.85	28	PL/EP50/3	730
08	EP70 400V/3Ph	/ F	2 3/4" / 70mm	5.5	75	PL/EP70/3	3500
09	TROLLEY FOR EP25 TO EP40	N/A	N/A	N/A	5	PLS/36202002	50
	HEAVY-DUTY CARRY FRAME	N/A	N/A	N/A	5	PLS/FRAME25	70

EP STAINLESS STEEL RANGE

The EP Junior, Senior and Master stainless steel side channel self-priming transfer pumps, are suitable for liquid transfer without particles.

APPLICATIONS

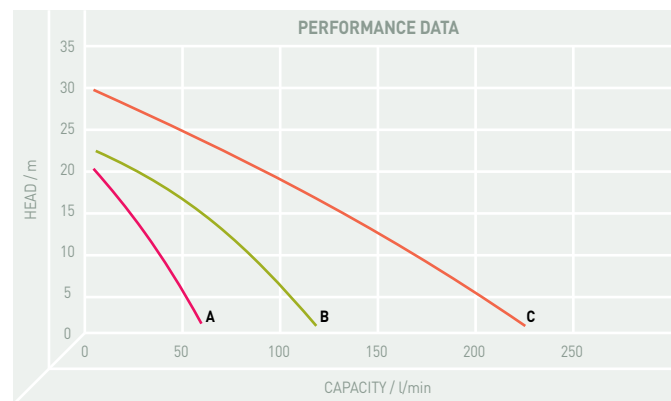
- LIGHT OILS
- JUICES
- VINEGAR

FEATURES

- STAINLESS STEEL CONSTRUCTION
- SELF-PRIMING
- REVERSIBLE OPERATION
- EXCELLENT PRIMING ACTION
- 32 - 50mm DISCHARGE



EP STAINLESS STEEL WITH TROLLEY



PUMP TYPE	CURVE	OUTLET " / mm	kW	WEIGHT kg	CODE	PRICE £
EP JUNIOR 110V/1Ph	/ A	1 1/4" / 32mm	0.45	10	PL/JUNIOR/2	620
EP JUNIOR 230V/1Ph	/ A	1 1/4" / 32mm	0.45	10	PL/JUNIOR/1	600
EP JUNIOR 400V/3Ph	/ A	1 1/4" / 32mm	0.56	10	PL/JUNIOR/3	600
EP SENIOR 110V/1Ph	/ B	1 1/2" / 40mm	0.75	17.5	PL/SENIOR/2	980
EP SENIOR 230V/1Ph	/ B	1 1/2" / 40mm	0.75	17.5	PL/SENIOR/1	920
EP SENIOR 400V/3Ph	/ B	1 1/2" / 40mm	0.75	18	PL/SENIOR/3	920
EP MASTER 110V/1Ph	/ C	2" / 50mm	1.86	26	PL/MASTER/2	1480
EP MASTER 230V/1Ph	/ C	2" / 50mm	1.86	26	PL/MASTER/1	1450
EP MASTER 400V/3Ph	/ C	2" / 50mm	1.86	27	PL/MASTER/3	1450
TROLLEY FOR JUNIOR / MASTER / SENIOR	N/A	N/A	N/A	5	PLS/36202002	50



Oilways AG35 / AG46 DIESEL TRANSFER PUMP

Diesel transfer pumps that incorporate a self-adjusting rotary vane design. The cast iron pump body is fitted with a bypass valve and stainless steel filter in the suction.

APPLICATIONS

- AGRICULTURE
- BUILDING
- MARINE

- INDUSTRY
- PLANT
- TRANSPORT

DIESEL BATTERY KIT

An easy installation kit, with the necessary elements to transfer diesel, composed of:

- AG35 pump, PSF-040 - manual aluminium nozzle with F1" swivel and curved end

- 4m antistatic delivery hose Ø19mm double layer for diesel, with adapters in both ends
- PP lower filter with stainless mesh, 2 brackets 23 x 35, brass elbow 90° MF 3/4" and adapter 3/4" PP

FEATURES

- SELF-PRIMING. ECCENTRIC WITH SELF-ADJUSTING BLADES
- RECIRCULATION BYPASS
- AG35 MOTOR: 0.30kW (12 & 24VDC) SELF-VENTILATED, RPM 3.000

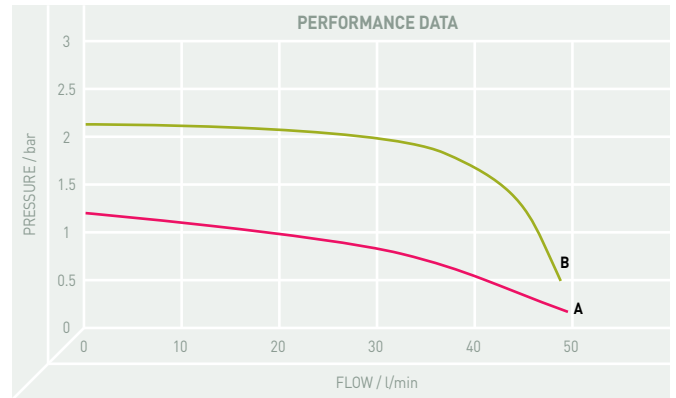
- AG46 MOTOR: 0.25kW 230VAC 50/60Hz SELF-VENTILATED, RPM 2.800
- CONNECTION F3/4"/F1" (BSP)
- CONTINUOUS DUTY
- IP55 PROTECTION
- ON/OFF SWITCH
- STAINLESS STEEL FILTER IN THE SUCTION OF 352 MICRON

CONTINUOUSLY RATED



AG46

AG35



PUMP TYPE	CURVE	SUCTION LIFT m	DELIVERY m	CONSUMPTION DC	CABLE LENGTH (WITH CLAMP) m	FLOW l/min	WEIGHT kg	CODE	PRICE £
AG35 12V	/A	2.5	20	18-21A	2	45-50	4.3	PG/AG-35-12VDC	220
AG35 24V	/A	2.5	20	9-17A	2	45-50	4.3	PG/AG-35-24VDC	220
AG35 12V KIT	/A	2.5	20	18-21A	2	50	7.5	PG/DBK-12VDC	260
AG35 24V KIT	/A	2.5	20	9-17A	2	50	7.5	PG/DBK-24VDC	260
AG46 230V	/B	5	20	1.2-2A	3	45-50	7.7	PG/AG-46-220VAC	230

Please see the AG88 & AG90 for larger flow rates. We also offer a full range of flow meters and nozzles. Fittings can be supplied for vertical and horizontal mounting.



Oilways AG90 DIESEL TRANSFER PUMP

CONTINUOUSLY RATED

The AG90 range of diesel transfer pumps incorporate a self-adjusting rotary vane, and its cast-iron pump body is fitted with a bypass valve.

WITH SWITCH KEY

Available with a built-in switch with key to start and stop it without touching the battery clamps. This key can be pulled out so it can be avoided any supply as a security system.

APPLICATIONS

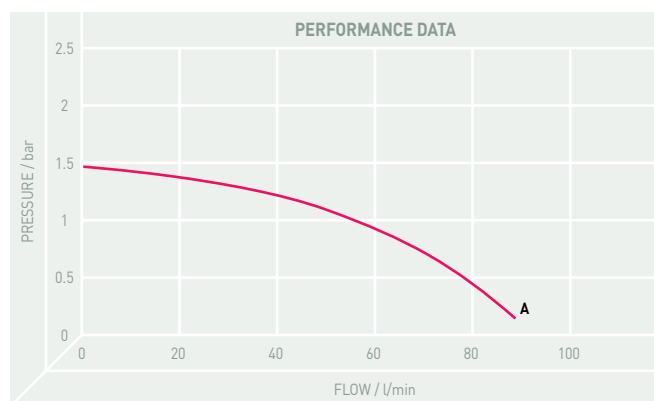
- AGRICULTURE
- BUILDING
- MARINE
- INDUSTRY
- PLANT
- TRANSPORT

FEATURES

- SELF-PRIMING, ECCENTRIC WITH SELF-ADJUSTING BLADES
- MOTOR 0.37kW (12 & 24VDC) SELF-VENTILATED, RPM 1.500
- THERMAL PROTECTION
- CONTINUOUS DUTY
- 3m CABLE WITH CLAMPS
- CONNECTION THROUGH F1" (BSP) THREADS OR FLANGES
- IP55 PROTECTION
- STAINLESS STEEL FILTER IN THE SUCTION OF 352 MICRON
- 80 l/min FLOW



AG90



PUMP TYPE	CURVE	SUCTION LIFT m	DELIVERY m	CONSUMPTION DC	WEIGHT kg	CODE	PRICE £
AG90 12VDC	/A	2.5	20	35-53A	15.5	PG/AG-90-12VDC	520
AG90 24VDC	/A	2.5	20	24-32A	15.5	PG/AG-90-24VDC	520
AG90 12VDC WITH SWITCH	/A	2.5	20	35-53A	15.5	PG/AG-90-12VDC	550
AG90 24VDC WITH SWITCH	/A	2.5	20	24-32A	15.5	PG/AG-90-24VDC	550



Please see the AG88 range for 230V option. Fittings can be supplied for vertical and horizontal mounting.

Oilways AG88

DIESEL TRANSFER PUMP

The AG88 range of diesel transfer pumps incorporate a self-adjusting rotary vane, and its cast iron pump body is fitted with a bypass valve.

APPLICATIONS

- AGRICULTURE
- BUILDING
- MARINE
- INDUSTRY
- PLANT
- TRANSPORT

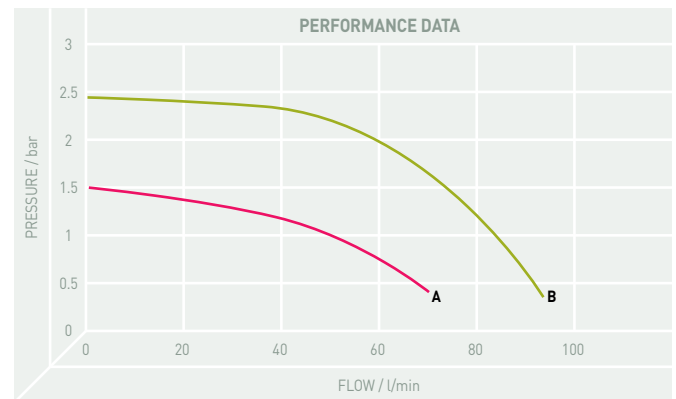
FEATURES

- SELF-PRIMING. ECCENTRIC WITH SELF-ADJUSTING BLADES
- RECIRCULATION BYPASS
- THERMAL PROTECTION
- CONTINUOUS DUTY
- IP55 PROTECTION
- BYPASS PRESSURE 1.4-1, 6 BAR / 2.5-3 BAR
- INLET / OUTLET 1" (BSP)
- 3m ELECTRIC CABLE
- ON / OFF LUMINOUS SWITCH

CONTINUOUSLY RATED



AG88



PUMP TYPE	CURVE	SUCTION LIFT m	DELIVERY m	CONSUMPTION DC	RPM	FLOW l/min	WEIGHT kg	CODE	PRICE £
AG88 0.37kW	/ A	5	30	3-6A	1.500	70-80	13	PG/AG-88-220VAC	355
AG88 0.74kW	/ B	5	30	3-5.6A	1.500	80-100	15.15	PG/AG-88-0.74VAC	455

Please see the AG90 range for 12 and 24V options. Nozzles and flow meters available. Fittings can be supplied for vertical and horizontal mounting.



Oilways CG150 DIESEL TRANSFER PUMP

CONTINUOUSLY RATED

High volume diesel transfer pump in cast iron construction.

APPLICATIONS

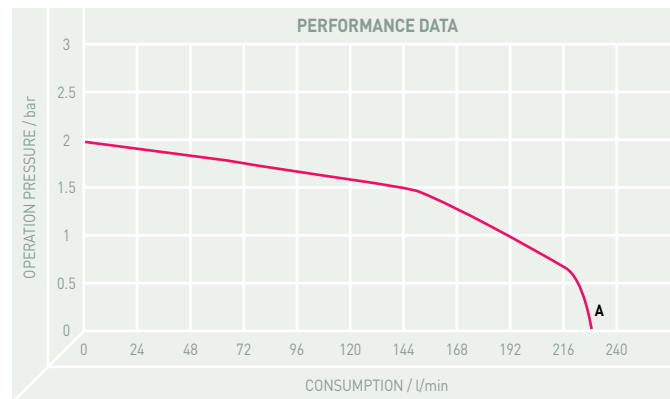
- AGRICULTURE
- BUILDING
- MARINE
- INDUSTRY
- PLANT
- TRANSPORT

FEATURES

- MAXIMUM FLOW: 228 l/min
- MAXIMUM HEIGHT: 20m
- MOTOR: 1,1kW 230-240VAC
SELF-VENTILATED 50Hz
SINGLE-PHASE
- CONTINUOUS DUTY
- THERMAL PROTECTOR
- 2" (BSP) CONNECTION



CG150



PUMP TYPE	CURVE	MAXIMUM PRESSURE m	CONSUMPTION kW	RPM	WEIGHT kg	CODE	PRICE £
CG-150	/A	2.5	1.1	2.800	23.3	PG/CG-150	690



Please see our range of nozzles and flow meters.

Oilways

AG ATEX RANGE

Self-priming, self-suction, explosion proof pumps suitable for petrol, kerosene and diesel transfer.

APPLICATIONS

- AGRICULTURE
- TRANSPORT
- INDUSTRY
- PLANT
- AVIATION
- MARINE

FEATURES

- RECIRCULATION BYPASS SYSTEM
- ECCENTRIC WITH SELF ADJUSTING BLADES
- THERMAL PROTECTOR
- CONNECTION AG500 3/4" (BSP), AG800 1" (BSP), BAG800 1 1/2" (BSP)
- CATAPHORETIC TREATMENT
- AG500 / AG800 S2 30' OPERATION, BAG CONTINUOUS DUTY
- 0°C - +50°C OPERATION TEMPERATURE
- AG500 / 800 IP55 PROTECTION
- AG500 / 800 ON / OFF SWITCH
- BAG 800 BYPASS PRESSURE 3 - 3.5 BAR

CONTINUOUSLY RATED



AG500



AG800



BAG800



PUMP TYPE	CURVE	SUCTION LIFT m	FREE FLOW l/min	RPM	CONSUMPTION	MOTOR kW	WEIGHT kg	CODE	PRICE £
AG500	/A	5	40 - 50	2.850	0.18kW 1-2A 50Hz 1Ph	0.18	11.4	PG/AG500-230V	880
AG600	/B	2.7	50	3.000	0.18kW 25A 12VDC	0.18	11.2	PG/AG600-12V	920
AG600	/B	2.7	50	3.000	25A 24VDC	0.18	11.2	PG/AG600-24V	920
AG800	/C	5	70-80	1.430	23-35A 230V	0.18	17.4	PG/AG800-230V	1150
BAG800 230V / 400V / 3Ph	/D	5	100-150	1.400	1.0kW 1.8-2.7A 50Hz 3Ph	1.0	33.5	PG/BAG800-400V	2000

We also have a full range of self-enclosed fuel dispensers, for further information speak to our Sales Team. Fittings can be supplied for vertical and horizontal mounting.



Oilways

MINI FUEL STATION

These kits are suitable for petrol / urea / diesel supply and are manufactured with materials compatible with these fluids. They can also be placed out in the open. The pumping and measuring kit are protected and guarantees a long life because of the cathophoretic treatment.

COMPOSED OF

- Pumping kit (according to the model)
- Measuring kit, composed of meter, with mechanical or digit indicator and digit totalizer. Accuracy: $\pm 1\%$
- 4m delivery hose $\varnothing 19$ or 25mm (depending on pump)
- PA-60 or PA-80 automatic nozzle (according to the model)

FEATURES

- CHASSIS MADE OF STEEL
- HIGH EPOXID PAINT
- WEATHERPROOF
- MECHANICAL / DIGITAL OPTIONS
- 60 / 130 PROGRAMMABLE USERS (MINI 46 & 88K)



MSGM



MSGE



	PUMP TYPE	MECHANICAL / DIGITAL	FLOW l/min	WEIGHT kg	CODE	PRICE £
DIESEL	MSGM-3580	MECHANICAL	35-45	15.1	PG/MSGM-3580	780
	MSGM-4680	MECHANICAL	40-50	17.5	PG/MSGM-4680	900
	MSGM-8880	MECHANICAL	70-80	26.3	PG/MSGM-8880	1450
	MINI 35K-60	DIGITAL	40-50	17	PG/MINI 35K-60	2950
	MINI 46K-60	DIGITAL	45-50	17	PG/MINI 46K-60	2950
	MINI 46K-130	DIGITAL	45-50	17	PG/MINI 46K-130	3550
	MINI 88K-60	DIGITAL	80	17	PG/MINI 88K-60	2950
	MINI 88K-130	DIGITAL	80	17	PG/MINI 88K-130	3950
UREA (ADD BLUE)	MINI BLUE 45CK-60	DIGITAL	40	18	PG/MINI45CK-60B	3400
	MINI BLUE 45CK-130	DIGITAL	40	18	PG/MINI45CK-130B	3850
PETROL	MSGE-50080	MECHANICAL	45-50	22.2	PG/MSGE-50080	1950
	MSGE-80080	MECHANICAL	70-80	28.2	PG/MSGE-80080	2500



Please contact our Sales Team for a larger range of fuel stations.

Oilways

DIESEL FLOW METERS

TYPE	IMAGE	APPLICATION	TECHNICAL INFORMATION	CODE	PRICE	
MG-80 MECHANICAL METER		<p>The meters are for private use and not suitable for fiscal operations.</p> <p>It also guarantees the toxicity absence and the negative ecological effects. Suitable for diesel, petrol and urea.</p>	<ul style="list-style-type: none"> - High quality plastic construction with transparent frontal made of "macrolon" material - Polyamide and fibreglass housing - Fireproof measuring chamber with oscillant disc - Flow: 10-90 l/min - Accuracy: ±1% - Partial indicator of 3 digits and totaliser of 6 digits - Maximum operation pressure: 3.5 bar 	<ul style="list-style-type: none"> - Resistance pressure: 13 bar - Test pressure: 6 bar - Maximum temperature: 60°C - Connection: 1" (BSP), 3 inlets, 2 outlets - Supplied with 2 additional 1" (BSP) adapters. The 1" (BSP) red adapter has built-in filter-sieve of 352 micron - Bypass valve for the meter calibration 	PG/MG-80	165
MG-80V MECHANICAL METER		<p>This meter has the same features as the MG-80 mechanical meter with a pulser in its inner of 2 communication channels that allows the connection to a consumption controller.</p> <p>Suitable for diesel, petrol and urea.</p>			PG/MG-80V	190
MG-80A MECHANICAL METER		<p>This meter has the same features as the MG-80 meter, but has aluminium casing.</p> <p>IT IS NOT SUITABLE FOR UREA TRANSFER.</p>			PG/MG-80A	165
MGI-80 MECHANICAL METER		<p>This meter has the same features as the MG-80 mechanical meter with a pulser in its inner of 2 communication channels that allow the connection to a own consumption controller. Suitable for diesel and petrol.</p>	<ul style="list-style-type: none"> - It is equipped with lateral packing gland and 90cm of connection cable - Pulses per litre: 10 pulses per channel 		PG/MGI-80	650
MGI-80V MECHANICAL METER		<p>This meter has the same features as the MG-80 mechanical meter with a pulser and Viton joints.</p> <p>Suitable for diesel and petrol .</p>			PG/MGI-80V	650

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Oilways

LUBRICANT GEAR PUMPS

The self-suction gear pump is suitable for lubricant and oil transfer.

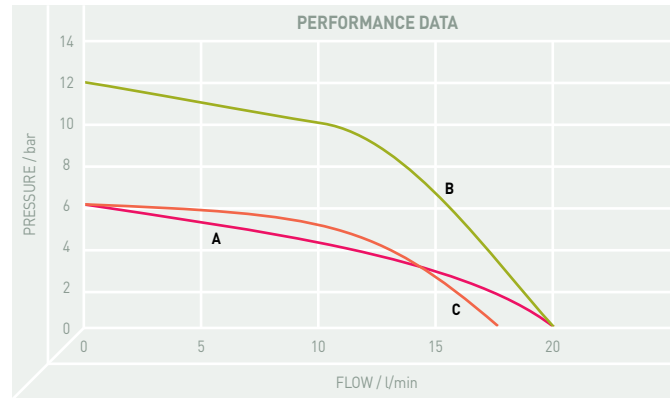
APPLICATIONS

- AGRICULTURE
- TRANSPORT
- INDUSTRY
- PLANT

FEATURES

- RECIRCULATION BYPASS SYSTEM (EA-10B DIRECTIONAL)
- SUCTION LIFT 2.5m
- IP55 PROTECTION
- RPM 1500 (EA-10B 1350)
- INLET / OUTLET 1/2" (BSP) (EA-10B 3/8")
- ON / OFF SWITCH
- 3m CONNECTION CABLE (EA-10B 2m)

CONTINUOUSLY RATED



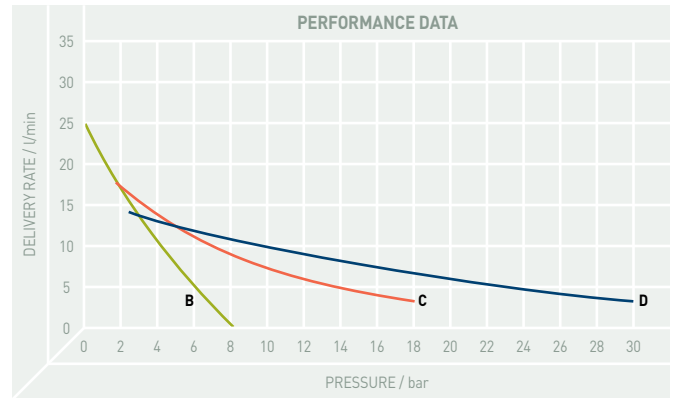
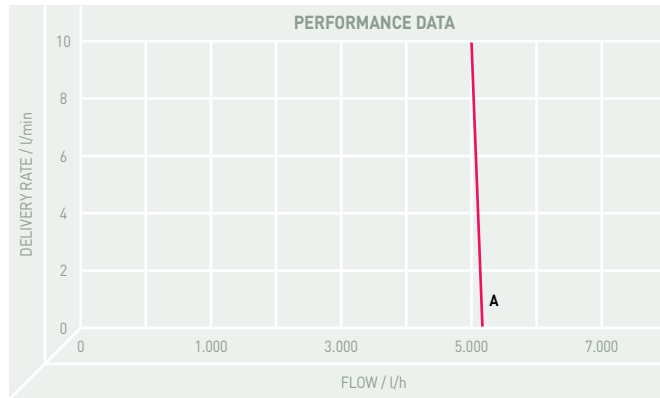
PUMP TYPE	CURVE	kW	FLOW l/min	BAR	CONSUMPTION	WEIGHT kg	CODE	PRICE £
EA-88	/A	0.37	20-25 l/min	5-6	2-4A	10	PG/EA-88-6BAR	550
EA-88	/B	0.74	20-25 l/min	9-10	4-6A	13	PG/EA-88-18BAR	580
EA-90 12VDC	/C	0.40	20-25 l/min	5-6	20-35A	8.5	PG/EA-90-12VDC	1120
EA-90 24VDC	/C	0.40	20-25 l/min	5-6	24-30A	8.5	PG/EA-90-24VD	1120
EA-10B	-	0.55	12 l/min	14	3.5	8.8	PG/EA-10B	560
HANDLE WITH LOWER SUPPORT TO BE FITTED TO GEAR PUMPS FOR EASY HANDLING AVAILABLE IN BLACK							PGS/HANDLE	25



Please contact our Sales Team for further information about these pumps.

Oilways PNEUMATIC LUBRICANT PUMPS

High pressure and high flow pneumatic pumps, specially designed to work in extreme conditions or when high deliveries are required in a short time. They are suitable for new engine and transmission oil transfer.



PUMP TYPE	CURVE	MAX OPERATION PRESSURE bar	FLOW l/min	SUCTION TUBE Ø	WEIGHT kg	CODE	PRICE
GC-5/200	/ A	40	40	40mm	14.5	PG/GC-5/200	2390
GC-10/200	/ A	80	50	40mm	16	PG/GC-10/200	2500
GM-1	/ B	8	25-35	1"	4.30	PG/GM-1	350
GM-3	/ C	24	20-27	1"	3.80	PG/GM-3	360
GM-5	/ D	40	22-28	1"	6.55	PG/GM-5	480

GM-1 FEATURES

Low pressure pneumatic pump suitable for quick lubricant transfer at a distance lower than 10m.

- MIN / MAX AIR PRESSURE: 3 - 8 BAR
- NOISE LEVEL: +/-67DB (A)
- OUTLET OIL THREAD: M1/2"
- INLET OIL THREAD: F1/4"

GM-3 FEATURES

Half pressure pneumatic pump suitable for lubricant and fluid transfer and distribution.

- MIN / MAX AIR PRESSURE: 3 - 8 BAR
- NOISE LEVEL: +/-67DB (A)
- OUTLET OIL THREAD: M1/2"
- INLET OIL THREAD: F1/4"

GM-5 FEATURES

High pressure pneumatic pump for the distribution of all types of lubricants. It is suitable for large installations, even supplying simultaneously lubricant in some points with hose-reels.

- MIN / MAX AIR PRESSURE: 3 - 8 BAR
- NOISE LEVEL: +/-67DB (A)
- OUTLET OIL THREAD: M1/2"
- INLET OIL THREAD: F1/4"

For electric lubricant pumps please see EA88 and EA90.



Oilways

HAND PUMPS

	BP-5 LEVER PUMP	TMG-040 BELLOW PUMP	TMG-080 BELLOW PUMP	TMG-150 BELLOW PUMP	BT-87 SELF SUCTION DRILL PUMP	BMP-1 PISTON PUMP	RHP-25 CI CAST IRON ROTARY OIL PUMP	RHP-25 AL ALUMINIUM ROTARY PUMP
APPLICATION	Transferring diesel, all types of lubricants and other non-corrosive fluids from barrels of 50 to 200 litres.	Suitable for the transfer of chemicals, aggressive liquids, solvents, petrol, diesel, water and wine.	Suitable for the transfer of chemicals, aggressive liquids, solvents, petrol, diesel, water and wine.	Suitable for the transfer of chemicals, aggressive liquids, solvents, petrol, diesel, water and wine.	A useful accessory to empty baths, aquariums, toilet bowls, washing machines, flooded basements, and for caravanning. Suitable for diesel, water, herbicides and antifreeze. It is adapted to any type of hand-held or professional drill (2000/2500rpm) and it can be connected to hose Ø24mm.	A double action pump suitable for diesel, oil, fuel, alcohol, printing solvents and petrol. It is supplied with a hole to hang the nozzle, the hose and the accessories to prevent dirt and dust entry into the nozzle.	A self-suction rotary pump for a continuous transfer of lubricants and fuels. It is adaptable to barrels from 50 to 200 litres and has a built in M2" adapter with height adjustment for fixing to the barrel.	A self-suction rotary pump for a continuous transfer of lubricants and fuels. It is adaptable to barrels from 50 to 200 litres and has a built in M2" adapter with height adjustment for fixing to the barrel.
TECHNICAL INFORMATION	<ul style="list-style-type: none"> - Aluminium pump body and discharge tube - Metallic suction telescopic tube of 88cm made of aluminium - Connection 2" adaptable to metallic barrels of 50, 100 and 200 litres - Nitrile or viton joints - Transfer capacity 0.5 litres x piston-stroke (litres per lever stroke) 	<ul style="list-style-type: none"> - Plastic construction - Tube pump of 0.4m for 50 litre barrel - Flow 6 l/min (Dependent on the piston-stroke) - Suitable for the refuelling of kerosene stoves 	<ul style="list-style-type: none"> - Plastic construction - Tube pump of 0.8m for 200 litre barrel - Flow 20 l/min (Dependent on the piston-stroke) 	<ul style="list-style-type: none"> - Plastic construction - Tube pump of 0.8m for 200 litre barrel - Flow 20 l/min (Dependent on the piston-stroke) 	<ul style="list-style-type: none"> - Flow according to the drill revolutions (maximum 60 l/min) - Self-suction up to 2.5m - Delivery up to 25m - High resistance dry operation - Eccentric, self-suction pump with self-adjusting blades - Inner part brass - Shaft and pin Aisi 304 stainless steel - Pump body, blades and rotor injected in plastic 	<ul style="list-style-type: none"> - Capacity 1 litre per stroke - Inlet 1" / Outlet: 3/4" - Hose 2.5m hose 3/4" petrol resistance - Drum plug: adjustable at 2" - Suction tube Ø33.5mm x 1m - Aluminium body - Stainless steel inlet - Hardened steel handle - Self-lubricating sealing - Supplied with nozzle hanger 	<ul style="list-style-type: none"> - Type rotary vanes - Capacity 20 litres / 70 round - Suction tube Ø32mm - Discharging tube Ø20mm 	<ul style="list-style-type: none"> - Type rotary vanes - Capacity 20 litres / 70 round - Suction tube Ø32mm - Discharging tube Ø20mm
CODE	PG/BP-5	PG/TMG-040	PG/TMG-080	PG/TMG-150	PG/BT-87	PG/BMP-1	PGY/RHP-25-CI	PGY/RHP-25-AL
PRICE	40	5.50	28	5.50	50	190	70	100



Do not use these pumps for organic solvents or strong acids that could damage the rubber seals (only BMP-1 - BRM-88).

Oilways

MANUAL / AUTOMATIC FUEL NOZZLES

	TYPE	IMAGE	APPLICATION	MANUAL / AUTOMATIC	FLOW	MAXIMUM PRESSURE	CONSTRUCTION	CODE	PRICE £
UNLEADED	PA-80 UNLEADED		F 3/4" rotary connection	Automatic	80 l/min		Aluminium body with plastic cover	PG/PA-80-3/4U	110
	PA-80 UNLEADED		F1" rotary connection	Automatic	80 l/min		Aluminium body with plastic cover	PG/PA-80-1U	110
UREA	PA-60U		F 3/4"	Automatic	60 l/min		Stainless steel body with plastic cover	PG/PA-60U	500
DIESEL / UREA	PT-60		F 3/4"	Manual	60 l/min	2kg / cm ²	Polyamide 6	PG/PT-60	25
DIESEL / PETROL UNLEADED	PSF-040		F1" rotary connection	Manual	80 l/min	3kg / cm ²	Aluminium	PG/PSF-040	27
	PE-010		F1 1/2"	Manual	200 l/min	3kg / cm ²	Aluminium	PG/PE-010	160
	PA-60		F 3/4"	Automatic	60 l/min	3kg / cm ²	Aluminium body with plastic cover	PG/PA-60	55
	PA-80		F 3/4" rotary connection	Automatic	80 l/min	3kg / cm ²	Aluminium body with plastic cover	PG/PA-80	95
	PA-120		F1"	Automatic	120 l/min	3kg / cm ²	Aluminium body with plastic cover	PG/PA-120	100
	PA-140		F1"	Automatic	140 l/min	3kg / cm ²	Aluminium body with plastic cover	PG/PA-140	150
	PA-250		M1 1 1/2"	Automatic	200 l/min	3kg / cm ²	Aluminium body with plastic cover	PG/PA-250	850
	ROTARY SWIVELS		Connection sizes available MF 3/4", MF 1", M 3/4" & F1"					PGS/SWIVELS	13
	DIESEL GRAVITY TANK KIT		With MF 1" ball valve and FUP-1 FF 1" filter and 5m delivery hose Ø25mm and PSF-040 manual nozzle					PGS/TANKKIT	200
	FUNNEL SET		x3: Ø240, Ø160, Ø70				Polyethylene	PGS/FUNNEL	6

Contact our Sales office for hoses and fittings.



Oilways

FILTER EQUIPMENT

These micro filters are suitable for trustworthy filtration of diesel and petrol because of their filtering cartridge with water repellent system.

APPLICATIONS

- AGRICULTURE
- TRANSPORT
- PLANT
- AVIATION
- INDUSTRY
- MARINE

FEATURES

- DIESEL AND PETROL FILTRATION 5 MICRONS, BIODIESEL FILTRATION 25 MICRONS
- FILTERING CAPACITY 500,000 LITRES - 1,000,000 LITRES
- OPERATION PRESSURE 0.3 - 0.5 BAR, FG-10 0.5 - 0 BAR, FG-10M 10 BAR
- EASY CLEANING



FG-2 / FG-2BIO



FG-2G



FG-10M



FG-10

TYPE	INLET / OUTLET l/min	LUBRICANT FILTRATION	CAPACITY l	FLOW l/min	WEIGHT kg	CODE	PRICE £
G-2	1" BSP	DIESEL	2	105	1.85	PG/FG-2	180
FG-2G	1" BSP	PETROL	2	105	1.85	PG/FG-2G	280
FG-2BIO	1" BSP	BIODIESEL	2	105	1.85	PG/FG-2BIO	190
FG-10	1" BSP	DIESEL/PETROL	10	210	8	PG/FG-10	600
FG-10M	1 1/2" BSP	DIESEL / PETROL / KEROSENE / HYDROCARBON LIQUIDS	10	210	23	PG/FG-10M	1700
TANK FILTERING TROLLEY	MOBILE TROLLEY OF SOLID CONSTRUCTION AND EPOXY PAINT, COMPLETE WITH FG-10 MICRO-FILTER				68.5	PG/TROLLEY	4150



Larger range of filters available at request, please contact our Sales office. Replacement filters available.

Oilways





LUBRICANT METERS

TYPE	IMAGE	MAXIMUM OPERATION PRESSURE bar	MIN / MAX TEMP	FLOW l/min	INLET / OUTLET CONNECTION THREAD	WEIGHT kg	CODE	PRICE £
MGE-40		50	-10°C / +60°C	2-40	1/2" (BSP)	0.65	PG/MGE-40	205
MGE-50		70	-10°C / +60°C	4-50	3/4" (FLANGE)	2.25	PG/MGE-50	380
MGE-100		40	-10°C / +60°C	7-100	1" (FLANGE)	2.95	PG/MGE-100	450
MGE-150		2 CHANNELS	-10°C / +60°C	10-150	1" (BSP) (FLANGE AVAILABLE)	4.9	PG/MGE-150	900
MGE-150		2 CHANNELS	-10°C / +60°C	10-150	1 1/2" (BSP) (FLANGE AVAILABLE)	4.9	PG/MGE-150	900



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Oilways PULSES

TYPE	IMAGE	MAXIMUM OPERATION PRESSURE bar	MIN / MAX TEMP	FLOW l/min	INLET / OUTLET CONNECTION THREAD	WEIGHT kg	CODE	PRICE £
MGI-40		56 PULSES PER LITRE	-10°C / +60°C	2-40	1/2" (BSP)	0.58	PG/MGI-40	150
MGI-50		52 PULSES PER LITRE	-10°C / +60°C	4-50	3/4" (FLANGE)	1.95	PG/MGI-50	295
MGI-100		26 PULSES PER LITRE	-10°C / +60°C	7-100	1" (FLANGE)	2.70	PG/MGI-100	380
MGI-150		22 PULSES PER LITRE	-10°C / +60°C	10-150	1" (FLANGE)	4.9	PG/MGI-150	840

Oilways NOZZLES

TYPE	IMAGE	MAXIMUM OPERATION PRESSURE bar	FLOW l/min	INLET / OUTLET CONNECTION THREAD	WEIGHT kg	CODE	PRICE £
PG-40		50	2-20	HIGH RESISTANT PLASTIC WITH FIBREGLASS	1	PG/PG-40	40
PMGE-40		50	2-20	HIGH RESISTANT PLASTIC WITH FIBREGLASS	1.8	PG/PMGE-40	300



Please speak to our Sales Team for further information.

Oilways UREA TRANSFER PUMP (ADBLUE)

CONTINUOUSLY RATED

A centrifugal self-priming pump suitable for urea transfer.

APPLICATIONS

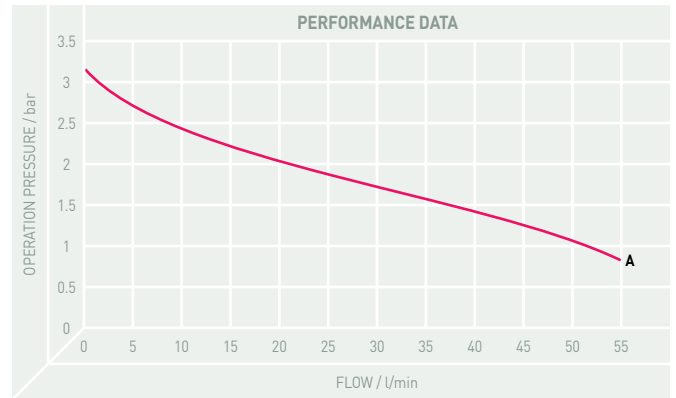
- AGRICULTURE
- TRANSPORT
- CONSTRUCTION
- PLANT
- MARINE

FEATURES

- MOTOR 0.37kW 230V, 50Hz
- SINGLE PHASE SELF VENTILATED
- CONTINUOUS DUTY
- PROTECTION IP44
- ON / OFF SWITCH
- INLET / OUTLET 1" (BSP)
- MAXIMUM LIQUID TEMPERATURE 60°C
- MAXIMUM OPERATION PRESSURE 3.2 BAR
- MAXIMUM SUCTION LENGTH 8m



UREA TRANSFER PUMP



PUMP TYPE	CURVE	FREE FLOW l/min	RPM	CONSUMPTION	CABLE LENGTH m	WEIGHT kg	CODE	PRICE £
CGI-50	/A	40	2.800	2.1A	2	15.5	PG/CGI-50	430

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CDLK (F) RANGE

A comprehensive range of immersible multi-stage pumps to convey cooling and lubricating liquids for industrial process and machine tools, where high volume and pressure of coolants are required to maintain maximum process efficiency.

APPLICATIONS

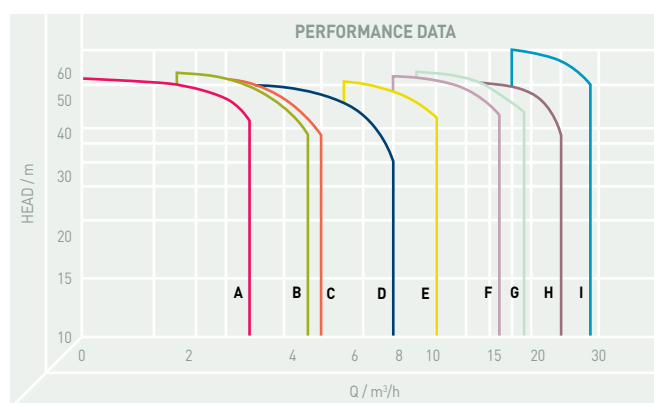
- MACHINE TOOLS
- HIGH OUTPUT MACHINE CENTRES
- PROCESSING PLANT
- COOLING DEVICES
- INDUSTRIAL CLEANING EQUIPMENT
- FILTERING SYSTEMS

FEATURES

- CAPACITY: UP TO 65m³/h
- HEAD: UP TO 305m
- TEMPERATURE: UP TO 120°C
- SPEED: 2900 / 3500 RPM
- POWER: UP TO 45kW
- PUMP HEAD AVAILABLE IN CAST IRON AND STAINLESS STEEL



CDLK (F)



PUMP TYPE	CURVE	FLOW RANGE m ³ /h	MAX PRESSURE bar	MOTOR kW	MAX EFFICIENCY %	PIPE CONNECTION
CDLK1	/A	0.4 - 2	21	0.37 - 2.2	44	G1 1/4"
CDLK2	/B	1 - 3.5	23	0.37 - 3	46	G1 1/4"
CDLK3	/C	1.2 - 4	22	0.37 - 3	54	G1 1/4"
CDLK4	/D	1.5 - 7	21	0.37 - 4	57	G1 1/4"
CDLK8	/E	5 - 12	21	0.75 - 7.5	62	G2"
CDLK16	/F	8 - 22	22	2.2 - 15	66	G2"
CDLK20	/G	10 - 28	23	2.2 - 18.5	69	G2"
CDLK32	/H	16 - 40	26	1.5 - 30	73	DN65
CDLK42	/I	25 - 55	30	3 - 45	75	DN80



Please see the Oilways range for more lubricant pumps.

E RANGE

The E range of self-priming, centrifugal pumps are used for dirty water applications. These pumps use recirculation of liquid in the pump casing to remove air from the suction line, enabling the pump to draw liquid through the suction line. These pumps are also available with a petrol or diesel engine.

APPLICATIONS

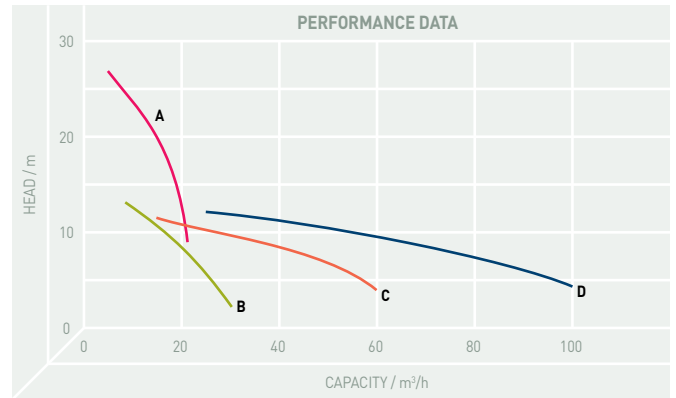
- INDUSTRY
- CONSTRUCTION
- AGRICULTURE & FARMING
- WASTE TREATMENT
- NAVAL DUTY
- CIVIL ENGINEERING

FEATURES

- ROBUST CONSTRUCTION
- QUICK SELF-PRIMING
- EASY MAINTENANCE
- SOLIDS HANDLING
- RELIABLE, WEAR RESISTANT
- VARIOUS MATERIAL TO SUIT APPLICATIONS



E RANGE



	PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE m	kW	WEIGHT kg	CODE	PRICE £
01	E30-160 TMC 400V/3Ph	/ A	1 1/2" / 40mm	8	2.2	50	PV/100/3805	990
02	E50 TMC 400V/3Ph	/ B	2" / 50mm	17	1.1	33	PV/E50TMC	600
03	E75 TMC 400V/3Ph	/ C	3" / 80mm	25	2.2	39	PV/E75TMC	825
04	E100 TMC 400V/3Ph	/ D	4" / 100mm	38	4	85	PV/E100/3	1600

Please also see the J series and ST series.



J RANGE

The J range are surface mounted, self-priming, centrifugal pumps with open impeller, large diameter solids handling and replaceable wear plates. They have easily opened inspection covers and externally lubricated mechanical seals.

APPLICATIONS

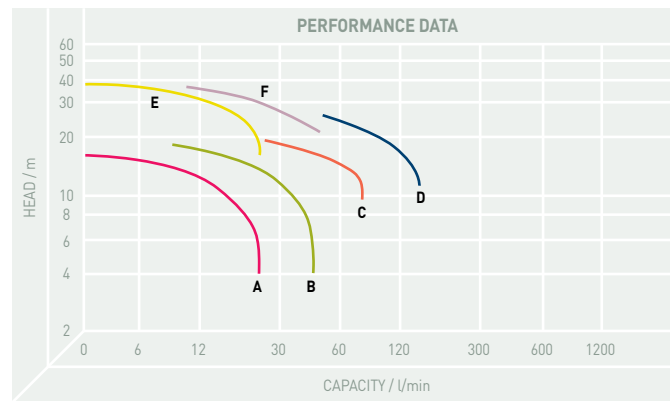
- INDUSTRY
- CONSTRUCTION
- AGRICULTURE & FARMING
- WASTE TREATMENT
- NAVAL DUTY
- CIVIL ENGINEERING
- MARINE APPLICATIONS

FEATURES

- ROBUST CONSTRUCTION
- QUICK SELF-PRIMING
- EASY MAINTENANCE
- SOLIDS HANDLING
- RELIABLE, WEAR RESISTANT
- VARIOUS MATERIAL TO SUIT APPLICATIONS



J RANGE



PUMP TYPE	CURVE	OUTLET " / mm	FREE PASSAGE m	kW	WEIGHT kg	CODE	PRICE £
J40 230V/1Ph (J40 230V)	/ A	1 1/2" / 40mm	20	1.1	25	PV/J40/1	639
J40 400V/3Ph (J40 400V)	/ A	1 1/2" / 40mm	20	1.1	25	PV/J40/3	720
J50 230V/1Ph (J50 230V)	/ B	2" / 50mm	25	2.2	42	PV/J50/1	1440
J50 400V/3Ph (J50 400V)	/ B	2" / 50mm	25	2.2	42	PV/J50/3	1020
J3-140 400V/3Ph (J3-140 400V)	/ C	3" / 80mm	28	4.0	63	PV/J3-140/3	2389
J90 400V/3Ph (J90 400V)	/ D	4" / 100mm	45	11.0	140	PV/J90-4/3	3589
J1-180 400V/3Ph (J1-180 400V)	/ E	1 1/2" / 40mm	11	4.0	60	PV/J1-180/3	2149
J2-180 400V/3Ph (J2-180 400V)	/ F	2" / 50mm	15	5.5	106	PV/J2-180/3	2620



J range pumps are used when one or more of the following are required: self-priming, solids handling and resistance to abrasion.

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**T-T Agriculture
& Environment**
PUMPING SYSTEMS

AGRICULTURE /
ENVIRONMENTAL
FEATURING BIOGAS
FEATURING BIOGAS
ENVIRONMENTAL
AGRICULTURE /

01

02

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T-T reserve the right to amend product pricing and technical specifications without prior notice. Please refer to our website or contact our sales team for accurate information.
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INTRODUCTION

Treating Effluent - Preventing Pollution

Agriculture & Environment focuses on effluent treatment and anti-pollution products.

As demand increases for environmentally efficient and cost effective methods of handling waste products, we have developed a product range and capabilities to provide a comprehensive service to meet your needs.

With sensitive environmental systems, we are able to merge our vast experience and expertise in pumps, controls, valves and service with the support of our internal design capabilities to provide off the shelf products through to bespoke systems.

OUR AREAS OF EXPERTISE INCLUDE:



PRODUCT RANGE

- SUBMERSIBLE / SURFACE MOUNTED CHOPPER PUMPS
- MIXERS
- SEPARATORS
- SHREDDERS
- MACERATORS
- SCUM SKIMMERS
- OXYPLATES
- OXYTUBES
- AERATORS
- EJECTORS
- SCREENING / SEPARATOR SYSTEMS

NEW FOR 2014

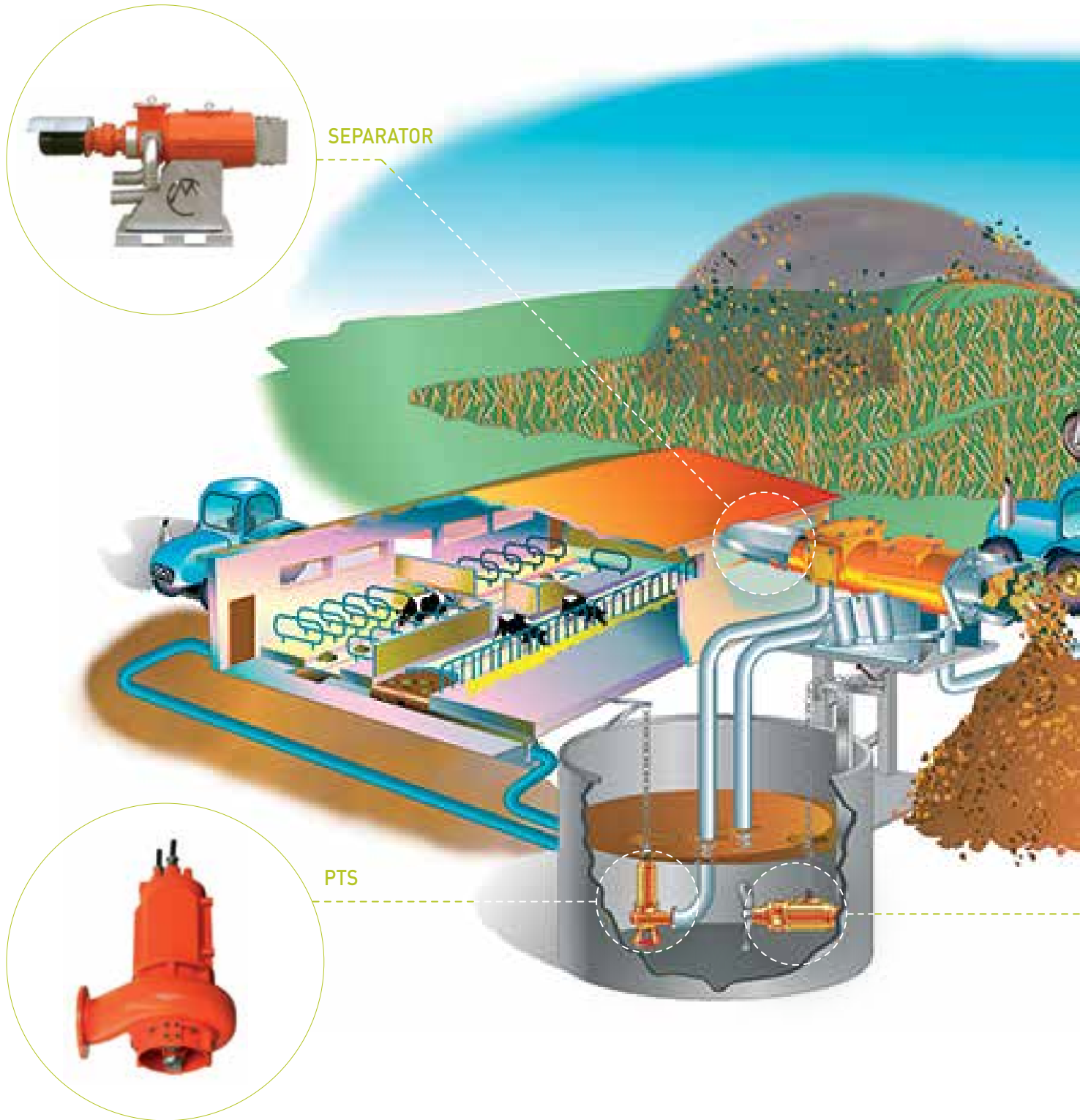
- SHREDDER
- MACERATOR
- LATERAL MIXERS
- VERTICAL SHAFT MIXERS

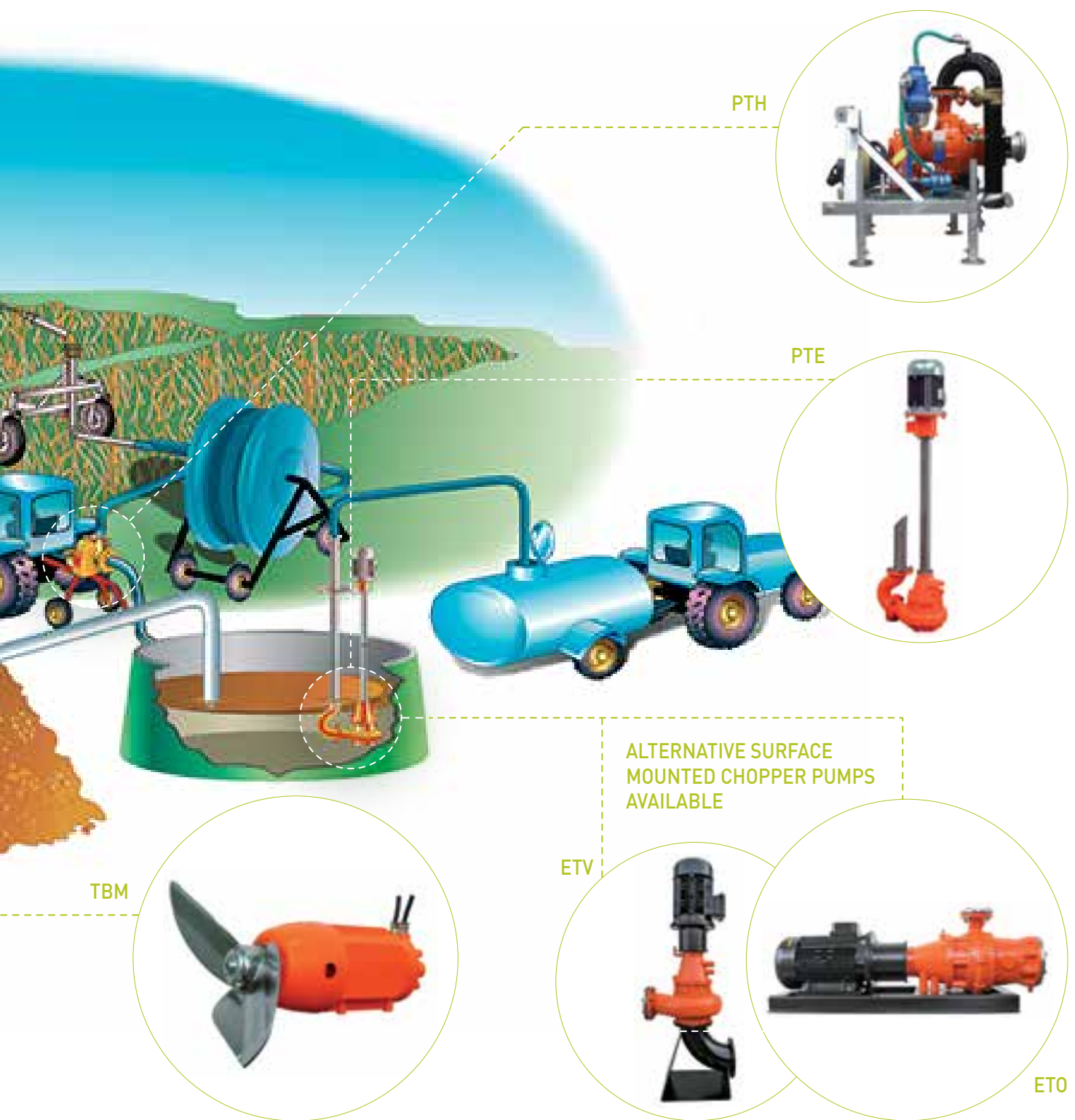


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AGRICULTURAL APPLICATIONS & SYSTEMS

DESIGN / SUPPLY / INSTALLATION / SERVICE





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BIOGAS APPLICATIONS & SYSTEMS

DESIGN / SUPPLY / INSTALLATION / SERVICE



SEPARATOR



ETO



TBM

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AF FLOW MIXER



PTS



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SCUM SKIMMER

The T-T Scum Skimmer is designed as an efficient and versatile method of collecting scum and floating matter from liquid surfaces, having the mobility to be directed into areas where skimming is most necessary.

APPLICATIONS

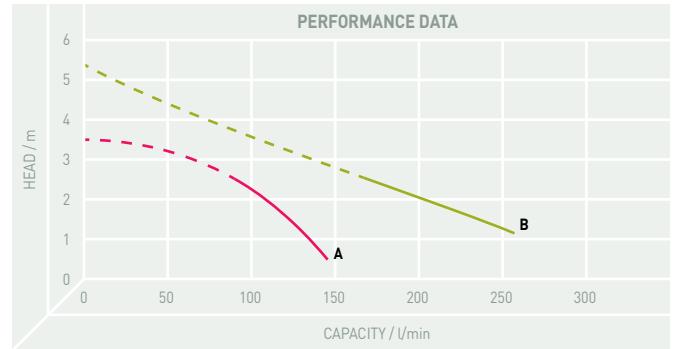
- INDUSTRIAL PROCESSES
- SEWAGE & TREATMENT WORKS
- DECANTING

FEATURES

- CAST IRON CONSTRUCTION, GALVANISED STEEL SUPPORT FRAME AND PLASTIC FLOATS
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 15mm FREE PASSAGE
- 1.25kW OUTPUT
- 50mm DISCHARGE



SCUM SKIMMER



PUMP TYPE	OUTLET " / mm	FREE PASSAGE mm	kW	WEIGHT kg	CODE	PRICE £
SCUM SKIMMER 50 230V/1Ph	2" / 50mm	15	1.25	78	A1/10715/B	1950
SCUM SKIMMER 50 400V/1Ph	2" / 50mm	15	1.25	78	A1/10719/B	1950
/ A - SUCTION MOUTH 10mm UNDER FLUID LEVEL						
/ B - SUCTION MOUTH 60mm UNDER FLUID LEVEL						

Please contact our Sales office for further treatment products, such as separators.



OXYPLATE

High performance, membrane diffusers for municipal and industrial water treatment. Designed for installation in oxidation tanks in civil and industrial aeration systems, they are fitted with a perforated membrane to allow passage of fine or medium sized bubbles. Easy to install with either the whole diffuser or just the membrane being quickly replaced in an existing plant.

APPLICATIONS

- SEWAGE WORKS
- INDUSTRIAL TREATMENT PLANTS
- FOOD PROCESSING PLANTS
- RETROFIT INTO EXISTING PLANTS
- AQUACULTURE
- LANDFILL

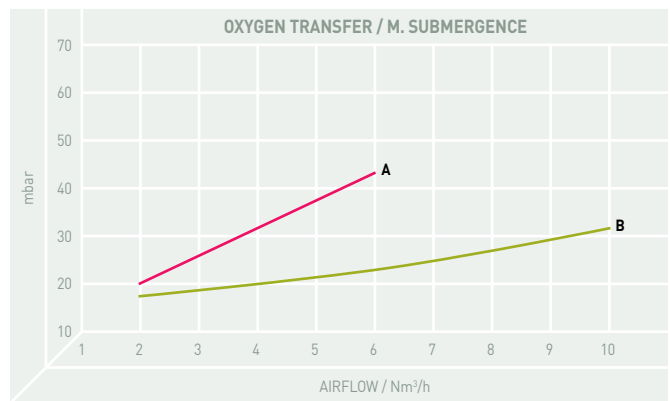
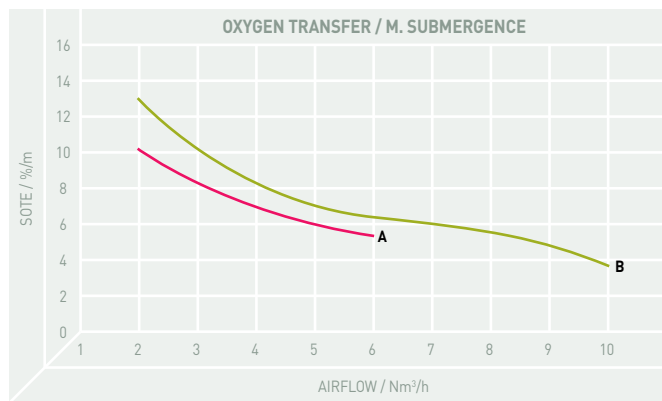
OXYPLATE



FEATURES

- DURABLE HEAVY DUTY DESIGN
- MEMBRANE EPDM LP, BODY PP GF30
- DESIGN FLOW 9" 2 - 10 Nm³/h, 12" 2 - 12 Nm³/h
- CONNECTION 3/4" NPT

PUMP TYPE	CURVE	WEIGHT kg	CODE	PRICE £
OXYPLATE 9"	/ A	0.7	PZS/9023.002	P.O.A.
OXYPLATE 12"	/ B	1.2	PZS/9023.004	P.O.A.



Please speak to our experienced team for further information on aeration systems.

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OXYTUBE

Recommended for installation in active sludge plants, aerobic digesters, reservoirs and aquaculture in general, with a 2" (63mm) diameter for optimum performance. Greater diameter ensures that a larger surface area is in contact with liquid, reducing the possibility of coalescence. Quick, convenient anchorage to the main pipe guarantees simple, economical plant construction.

APPLICATIONS

- SEWAGE WORKS
- INDUSTRIAL TREATMENT PLANTS
- FOOD PROCESSING PLANTS
- RETROFIT INTO EXISTING PLANTS
- AQUACULTURE
- LANDFILL

FEATURES

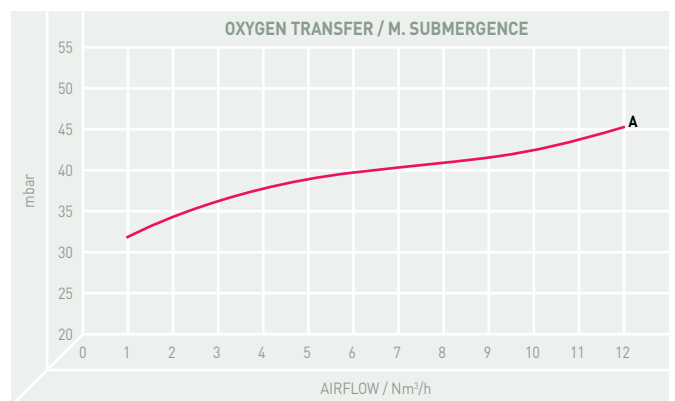
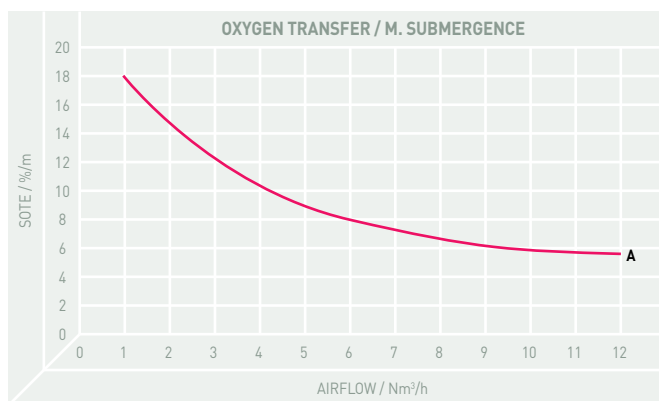
- DURABLE HEAVY DUTY DESIGN
- MEMBRANE EPDM LP, BODY PP GF30
- CONNECTION 3/4" NPT



OXYTUBE



PUMP TYPE	CURVE	MIN OPERATING FLOW RATE Nm ³ /h	MAX OPERATING FLOW RATE Nm ³ /h	WEIGHT kg	CODE	PRICE £
TUBE 500	/ A	0.8	1	6	PZS/9023.005	P.O.A.
TUBE 750	/ A	1.1	2	9	PZS/9023.006	P.O.A.
TUBE 1000	/ A	1.3	3	12	PZS/9023.007	P.O.A.



Please speak to our experienced team for further information on aeration systems.



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TRN AERATORS RANGE

High efficiency oxygen saturation is achieved as a result of fine air-molecules being produced, giving an excellent oxygen transfer.

These submersible aerators are ideal for improving the oxygen supply in liquids, and treatment processes where the biological and chemical oxygen demand is high. The TRN model has a semi-vortex design, to avoid particles and fibres clogging the impeller.

The heart of the aerator is fitted with a double silicon carbide mechanical seal, cooled by an oil bath of at least 0.5 litre per kW. The aerators are supplied complete with a silencer and valve set, although the air-feed pipe is not included, but can be supplied as an accessory to suit your application.



TRN AERATORS RANGE

APPLICATIONS

- FOOD EFFLUENTS
- WATER FEATURES & LAKES
- INDUSTRIAL PROCESSES
- AGRICULTURAL
- SEWAGE & TREATMENT WORKS
- FISH FARMS

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 0.75 - 40kW OUTPUT
- EXCELLENT OXYGEN TRANSFER
- MAINTAINING LIQUID OXYGEN LEVEL
- REDUCING ODOURS
- REVITALISING LAKES AND STILL WATER



PUMP TYPE	CURVE	IMPELLER DEPTH m	AIR INLET DIAMETER mm	NO. OF OUTLETS	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
32TRN2.75 400V/3Ph	/ A	3.2	32	6	10	0.75	65	PT/32TRN2.75/3	1600
32TRN21.5 400V/3Ph	/ B	3.2	32	6	10	1.5	65	PT/32TRN21.5/3	1900
50TRN42.2 400V/3Ph	/ C	3.6	50	8	10	2.2	170	PT/50TRN42.2/3	3400
50TRN43.7 400V/3Ph	/ D	3.6	50	8	10	3.7	180	PT/37-TRN2/3	4000
50TRN45.5 400V/3Ph	/ E	3.6	50	8	10	5.5	215	PT/50TRN45.5/3	5900
80TRN47.5 400V/3Ph	/ F	4.1	80	8	10	7.5	235	PT/80TRN47.5/3	6900
80TRN412 400V/3Ph	/ G	4.7	80	8	10	11	255	PT/80TRN412/3	8100
80TRN417 400V/3Ph	/ H	6	80	6	20	17	230	PT/80TRN417/3	9100
100TRN424 400V/3Ph	/ I	6	100	8	20	24	470	PT/100TRN424/3	13200
150TRN440 400V/3Ph	/ J	6	150	8	20	40	645	PT/150TRN440/3	24900



Please contact our Sales office for further treatment products, such as mixers.

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OXYGEN RANGE

The Oxygen series of ejectors is the new advanced range of ejectors which give excellent oxygen transfer and which can accommodate many applications.

APPLICATIONS

- FOOD PROCESSING
- WATER FEATURES & LAKES
- INDUSTRIAL PROCESSES
- AGRICULTURE
- SEWAGE & TREATMENT WORKS
- OXYGENERATION
- FISH FARMS

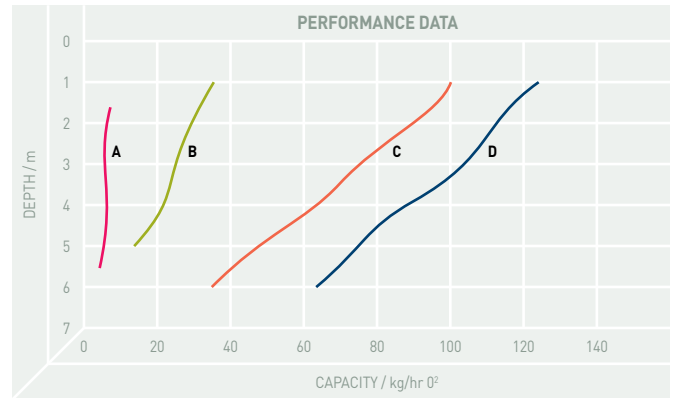
FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 1.1 - 16.4kW OUTPUT
- 50 - 150mm DISCHARGE
- AUTO-COUPLING AVAILABLE



OXYGEN 50

OXYGEN 80



PUMP TYPE	CURVE	OUTLET "/mm	RATED CURRENT AMPS 400V/3Ph	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
OXYGEN 50 400V/3Ph	/ A	2" / 50mm	2.5	10	1.1	33	PB/OXYGEN50	800
OXYGEN 80/55 400V/3Ph	/ B	3" / 80mm	20.0	10	8.9	160	PB/OXYGEN80/55	4350
OXYGEN 150/80 400V/3Ph	/ C	6" / 150mm	20.0	10	8.9	195	PB/OXYGEN150/80	5790
OXYGEN 150/95 400V/3Ph	/ D	6" / 150mm	36.0	10	16.4	277	PB/OXYGEN150/95	7540



Please contact our Sales office for further treatment products, such as separators.



TBX MIXER RANGE

These submersible horizontal mixers, fully manufactured in AISI 316 stainless steel, are recommended for mixing and homogenizing processes in sewage treatment plants and applications in very corrosive liquids.

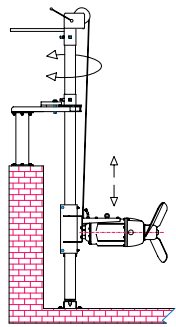
The design, construction and the use of propellers with self-cleaning profile are a guarantee of durability and efficiency even in the most extreme utilisation conditions.

APPLICATIONS

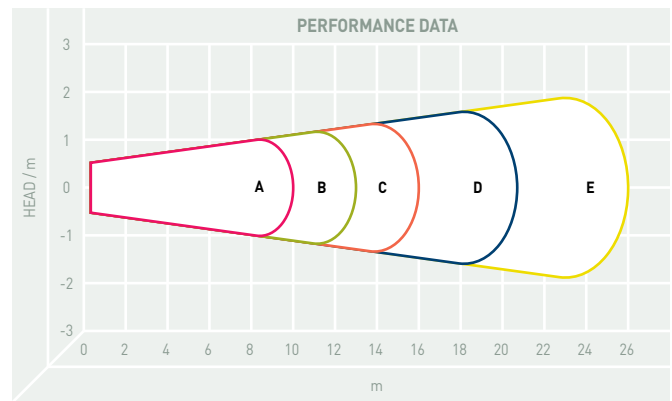
- EFFLUENT PROCESSING
- INDUSTRIAL PROCESSING
- AGRICULTURE
- SEWAGE & TREATMENT WORKS
- PUMPING STATION AGITATION
- BIOGAS PROCESS

FEATURES

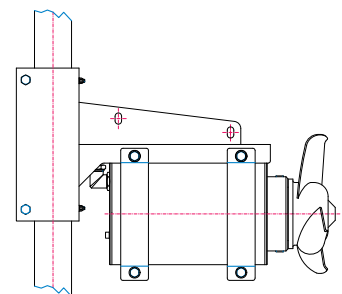
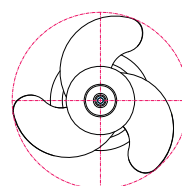
- 316 STAINLESS STEEL CONSTRUCTION
- SINGLE MECHANICAL SEAL WITHIN OIL BATH
- 0.75 - 3kW OUTPUT
- MAX. SUBMERGENCE DEPTH 20m
- MAX. SOLID CONTENT IN LIQUID 12%
- MAX. TEMPERATURE OF LIQUID 40°C
- PH5-12



TBX MIXER



	PUMP TYPE	CURVE	MOTOR RATING kW	RPM N	CAPACITY m³/h	CABLE LENGTH m	WEIGHT kg	CODE	PRICE £
4 POLE MOTOR	TBX 0.75/4 400V/3Ph	/A	0.75	1400	318	10	17.5	PCR/TBX0.75/4/3	1500
	TBX 1.1/4N 400V/3Ph	/B	1.1	1380	372	10	19	PCR/TBX1.1/4/3	1650
6 POLE MOTOR	TBX 1.5/6 400V/3Ph	/C	1.5	955	535	10	65	PCR/TBX1.5/6/3	3500
	TBX 2.2/6 400V/3Ph	/D	2.2	940	833	10	65.5	PCR/TBX2.2/6/3	3650
	TBX 3/6 400V/3Ph	/E	3	935	1137	10	67.5	PCR/TBX3/6/3	3800



Please also see the larger TBM range for heavy-duty and higher capacity mixers.

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TBM MIXER RANGE

These horizontal submersible mixers are recommended for mixing and homogenizing processes in sewage treatment plants.

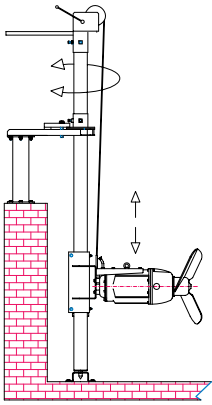
The design, construction and the use of propellers with self-cleaning profile are a guarantee of durability and efficiency, even in the most extreme utilisation conditions.

APPLICATIONS

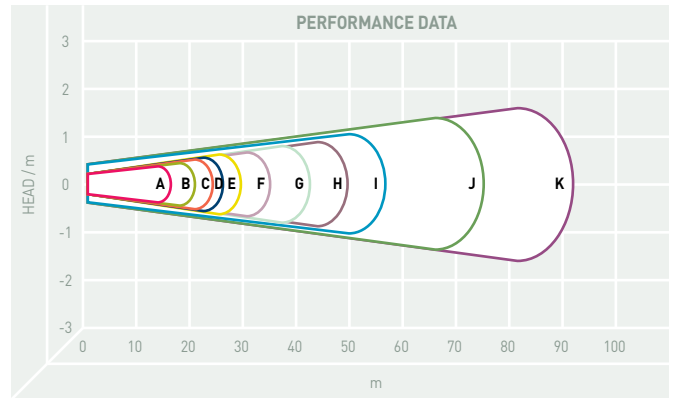
- EFFLUENT PROCESSING
- INDUSTRIAL PROCESSES
- AGRICULTURE
- SEWAGE & TREATMENT WORKS
- BIOGAS PROCESS

FEATURES

- CAST IRON CONSTRUCTION
- SINGLE MECHANICAL SEAL WITHIN OIL BATH
- 1.5 - 18.5KW OUTPUT
- MAX. SUBMERGENCE DEPTH 20m
- MAX. SOLID CONTENT IN LIQUID: 12%
- MAX. TEMPERATURE OF LIQUID 40°C
- SUPERIOR PLANETARY GEARBOX ON 4 POLE MOTORS
- PH5-12



TBM MIXER



	PUMP TYPE	CURVE	MOTOR RATING kW	RPM N	CAPACITY m³/h	CABLE LENGTH m	WEIGHT kg	CODE	PRICE £
01 6 POLE MOTOR	TBM 1.5/6N 400V/3Ph	/A	1.5	925	585	10	54	PCR/TBM1.5/6/3	2350
	TBM 2.2/6N 400V/3Ph	/B	2.2	940	833	10	57	PCR/TBM2.2/6/3	2415
02 03 04 05 06 07 08 4 POLE MOTOR	TBM 2.2/4 400V/3Ph	/C	2.2	323	1275	10	75	PCR/TBM2.2/4/3	3450
	TBM 3/4 400V/3Ph	/D	3	323	1462	10	78	PCR/TBM3.0/4/3	3550
	TBM 4/4 400V/3Ph	/E	4	320	2000	10	81	PCR/TBM4.0/4/3	3650
	TBM 5.5/4N 400V/3Ph	/F	5.5	326	2162	10	109	PCR/TBM5.5/4/3	4100
	TBM 7.5/4N 400V/3Ph	/G	7.5	328	2821	10	115	PCR/TBM7.5/4/3	4200
	TBM 9/4N 400V/3Ph	/H	9	328	3013	10	123	PCR/TBM9.0/4/3	4500
	TBM 11/4 400V/3Ph	/I	11	351	3286	10	183	PCR/TBM11.0/4/3	6100
	TBM 15/4N 400V/3Ph	/J	15	351	5489	10	193	PCR/TBM15.0/4/3	6300
	TBM 18.5/4N 400V/3Ph	/K	18.5	354	6702	10	203	PCR/TBM18.5/4/3	6500

The Planetary Gear Box is designed to give extended life in the most arduous conditions.



AF FLOW MIXER SERIES

These horizontal submersible mixers are recommended for homogenizing processes in sewage treatment plants. The design, construction and the use of propellers with self-cleaning profile are guaranteed for long duration and efficiency, even in the most extreme utilisation conditions.

APPLICATIONS

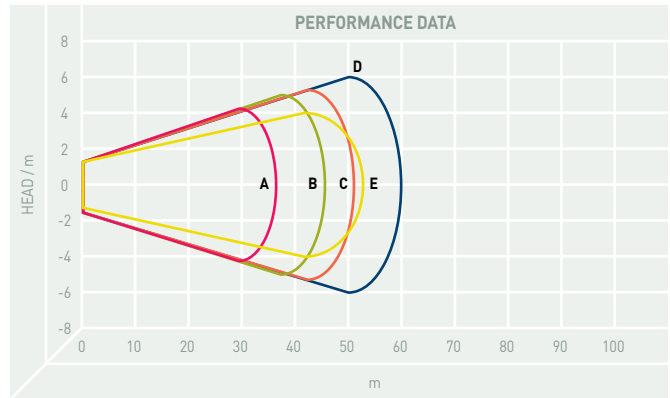
- EFFLUENT PROCESSING
- INDUSTRIAL PROCESSES
- AGRICULTURE
- SEWAGE & TREATMENT WORKS
- BIOGAS PROCESS

AF FLOW MIXER



FEATURES

- CAST IRON CONSTRUCTION
- SINGLE MECHANICAL SEAL WITHIN OIL BATH
- 1.5 - 5.5kW OUTPUT
- MAX. SUBMERGENCE DEPTH 20m
- MAX. SOLID CONTENT IN LIQUID 8%
- MAX. TEMPERATURE OF PUMPED LIQUID 40°C
- SUPERIOR PLANETARY GEARBOX



	PUMP TYPE	CURVE	MOTOR RATING kW	RPM N	CAPACITY m³/h	CABLE LENGTH m	WEIGHT kg	CODE	PRICE £
6 POLE MOTOR	AF 1.5/6	/A	1.5	925	11490	10	106	PCR/AF1.5/6	P.O.A.
	AF 2.2/6	/B	2.2	940	13594	10	107	PCR/AF2.2/6	P.O.A.
4 POLE MOTOR	AF 3/4	/C	3	1420	14716	10	122	PCR/AF3/4	P.O.A.
	AF 4/4	/D	4	1405	16250	10	125	PCR/AF4/4	P.O.A.
	AF 5.5/4	/E	5.5	1430	17803	10	130	PCR/AF5.5/4	P.O.A.



Please contact our Sales office for further treatment products, such as aerators.

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PTS 40

The PTS series is a range of heavy duty submersible chopper pumps, ideal for particularly heavy applications that require a preliminary chopping of the solid material suspended in the liquid being pumped.

APPLICATIONS

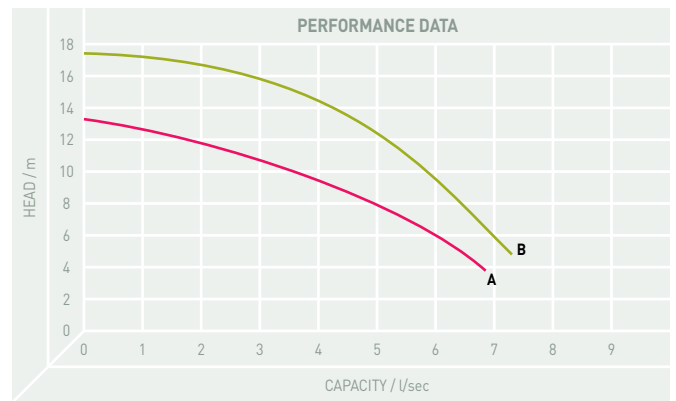
- CONSTRUCTION & HOUSING DEVELOPMENTS
- FOOD PROCESSING
- DOMESTIC & INDUSTRIAL
- AGRICULTURE
- SEWAGE & TREATMENT WORKS

FEATURES

- CAST IRON CONSTRUCTION
- SINGLE MECHANICAL SEAL WITHIN OIL BATH
- TOUGH CHOPPING ACTION
- 40mm DISCHARGE
- 0.75 - 1.1kW OUTPUT
- AUTOMATIC VERSION ONLY



PTS 40



PUMP TYPE	CURVE	OUTLET " / mm	CABLE LENGTH m	kW	WEIGHT kg	CODE	PRICE £
PTS 0.75-40 400V/3Ph	/ A	1 1/2" / 40mm	10	0.75	20.5	PCR/PTS0.75-40/3	1050
PTS 1.1-40 400V/3Ph	/ B	1 1/2" / 40mm	10	1.1	20.5	PCR/PTS1.1-40/3	1140

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PTS 80 - 150 SERIES

The PTS series is a range of heavy duty submersible chopping pumps, ideal for particularly heavy applications that require a preliminary chopping of the solid material suspended in the liquid being pumped. Each pump has a large, through-passage, open multi-channel impeller and double cutting system in suction inlet.

APPLICATIONS

- SEWAGE PUMPING STATION
- FOOD PROCESSING EFFLUENTS
- PROCESSES & INDUSTRIAL
- AGRICULTURE
- SEWAGE & TREATMENT WORKS
- HOUSING & NURSING HOMES
- BIOGAS PROCESS

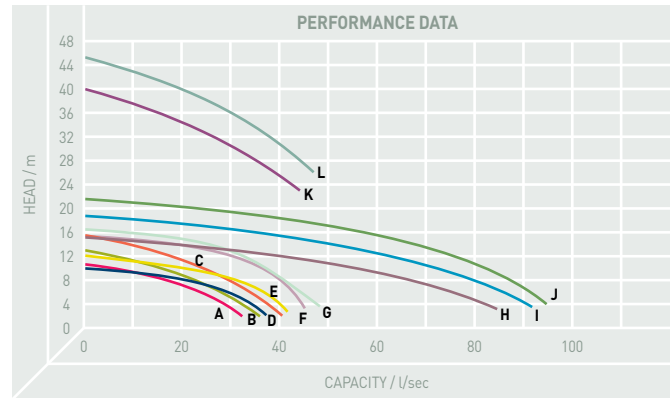
FEATURES

- CAST IRON CONSTRUCTION
- TOUGH DOUBLE CHOPPING ACTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 80 - 150mm DISCHARGE
- 2.2 - 18.5kW OUTPUT
- AUTO COUPLING AVAILABLE



PTS 80 SERIES

PTS 100 - 150 SERIES



	PUMP TYPE	CURVE	OUTLET " / mm	CABLE LENGTH m	KW	WEIGHT kg	CODE	PRICE £
4 POLE MOTOR	PTS 2.2-80 400V/3Ph*	/ A	3" / 80mm	10	2.2	73	PCR/PTS2.2-80/3	2800
	PTS 3-80 400V/3Ph*	/ B	3" / 80mm	10	3	75	PCR/PTS3-80/3	2900
	PTS 4-80 400V/3Ph*	/ C	3" / 80mm	10	4	76	PCR/PTS4-80/3	2950
	PTS 4-100 400V/3Ph	/ D	4" / 100mm	10	4	87	PCR/PTS4-100/3	3450
	PTS 5.5-100 400V/3Ph	/ E	4" / 100mm	10	5.5	121	PCR/PTS5.5-100/3	3950
	PTS 7.5-100 400V/3Ph	/ F	4" / 100mm	10	7.5	127	PCR/PTS7.5-100/3	4000
	PTS 9-100 400V/3Ph	/ G	4" / 100mm	10	9	132	PCR/PTS9-100/3	4100
	PTS 11-150 400V/3Ph	/ H	6" / 150mm	10	11	206	PCR/PTS11-150/3	5950
	PTS 15-150 400V/3Ph	/ I	6" / 150mm	10	15	219	PCR/PTS15-150/3	6050
PTS 18.5-150 400V/3Ph	/ J	6" / 150mm	10	18.5	225	PCR/PTS18.5-150/3	6300	
2 POLE MOTOR	PTS 15-80 400V/3Ph*	/ K	3" / 80mm	10	15	219	PCR/PTS15-80/3	5400
	PTS 18.5-80 400V/3Ph*	/ L	3" / 80mm	10	18.5	225	PCR/PTS18.5-80/3	5600

*Available with 100mm heavy duty cutting system - £350.



Why not see this product in action?
 Visit <http://www.youtube.com/watch?v=nK381iuPd4M&feature=related>

ETO SERIES

The ETO series is a range of electric horizontal chopper pumps, ideal for particularly heavy duty applications. These pumps are mounted on a frame and coupled with standard electric motors by a flexible coupling.

All versions are equipped with a multi impeller and double chopping system in the suction. These pumps are recommended for applications that require an adequate chopping of the solid materials present in the liquid being pumped.

APPLICATIONS

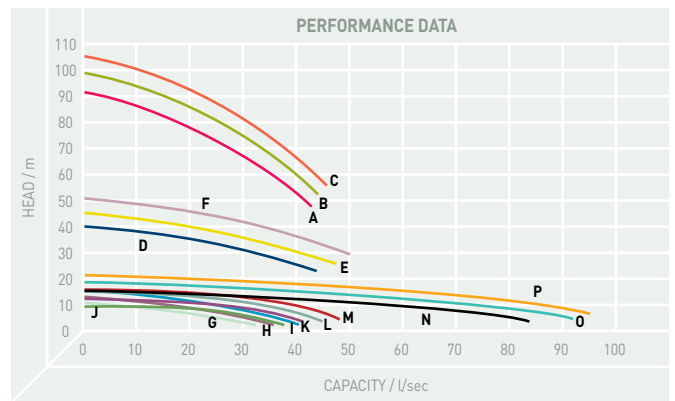
- FOOD EFFLUENTS
- INDUSTRIAL PROCESSING
- AGRICULTURE
- EFFLUENT IRRIGATION SYSTEM
- SEWAGE & TREATMENT WORKS
- BIOGAS PROCESS

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- DOUBLE CHOPPER SYSTEM
- 2.2 - 45kW OUTPUT
- 65 - 150mm DISCHARGE
- HEAVY DUTY CHOPPING ACTION



ETO



	PUMP TYPE	CURVE	OUTLET "/ mm	kW	CODE	PRICE £	
01 02 03 04 05 06 07 08 09 10 11 12	2 POLE MOTOR	ETO 30-65 400V/3Ph	/ A	2 1/2" / 65mm	30	PCR/ETO 37-65/3	8000
		ETO 37-65 400V/3Ph	/ B	2 1/2" / 65mm	37	PCR/ETO 37-65/3	8200
		ETO 45-65 400V/3Ph	/ C	2 1/2" / 65mm	45	PCR/ETO 45-65/3	9000
		ETO 15-80 400V/3Ph	/ D	3" / 80mm	15	PCR/ETO 15-80/3	5800
		ETO 18.5-80 400V/3Ph	/ E	3" / 80mm	18.5	PCR/ETO 18.5-80/3	6100
		ETO 22-80 400V/3Ph	/ F	3" / 80mm	22	PCR/ETO 22-80/3	6300
01 02 03 04 05 06 07 08 09 10 11 12	4 POLE MOTOR	ETO 2.2-80 400V/3Ph	/ G	3" / 80mm	2.2	PCR/ETO 2.2-80/3	3900
		ETO 3-80 400V/3Ph	/ H	3" / 80mm	3	PCR/ETO 3-80/3	4000
		ETO 4-80 400V/3Ph	/ I	3" / 80mm	4	PCR/ETO 4-80/3	4050
		ETO 4-100 400V/3Ph	/ J	4" / 100mm	4	PCR/ETO 4-100/3	4350
		ETO 5.5-100 400V/3Ph	/ K	4" / 100mm	5.5	PCR/ETO 5.5-100/3	4650
		ETO 7.5-100 400V/3Ph	/ L	4" / 100mm	7.5	PCR/ETO 7.5-100/3	4800
		ETO 9-100 400V/3Ph	/ M	4" / 100mm	9	PCR/ETO 9-100/3	5100
		ETO 11-150 400V/3Ph	/ N	6" / 150mm	11	PCR/ETO 11-150/3	7400
		ETO 15-150 400V/3Ph	/ O	6" / 150mm	15	PCR/ETO 15-150/3	7600
		ETO 18.5-150 400V/3Ph	/ P	6" / 150mm	18.5	PCR/ETO 18.5-150/3	7700

Please also see the ETV range for an electric vertical chopper pump range.



ETV SERIES

The ETV series is a range of electric vertical chopper pumps, ideal for particularly heavy duty applications. These pumps are mounted on a vertical frame, which includes the suction inlet and they are coupled with standard electric motors by a flexible coupling.

All versions are equipped with a multi impeller and double chopping system in the suction. These pumps are recommended for applications that require an adequate chopping of the solid materials present in the liquid being pumped.

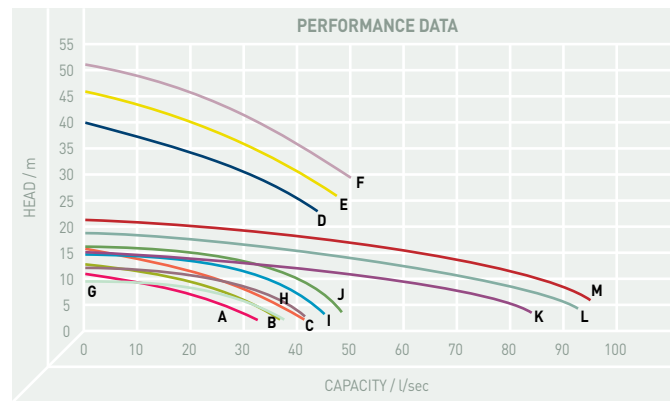
APPLICATIONS

- FOOD EFFLUENTS
- INDUSTRIAL PROCESSING
- AGRICULTURE
- BIOGAS PROCESS
- SEWAGE & TREATMENT WORKS

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 2.2 - 22kW OUTPUT
- 80 - 150mm DISCHARGE
- HEAVY DUTY CHOPPING ACTION
- DOUBLE CHOPPING SYSTEM

ETV



	PUMP TYPE	CURVE	OUTLET "/ mm	kW	CODE	PRICE £
2 POLE MOTOR	ETV 15-80 400V/3Ph	/ D	3" / 80mm	15	PCR/ETV 15-80/3	5800
	ETV 18.5-80 400V/3Ph	/ E	3" / 80mm	18.5	PCR/ETV 18.5-80/3	6100
	ETV 22-80 400V/3Ph	/ F	3" / 80mm	22	PCR/ETV 22-80/3	6200
4 POLE MOTOR	ETV 2.2-80 400V/3Ph	/ A	3" / 80mm	2.2	PCR/ETV 2.2-80/3	3500
	ETV 3-80 400V/3Ph	/ B	3" / 80mm	3	PCR/ETV 3-80/3	3600
	ETV 4-80 400V/3Ph	/ C	3" / 80mm	4	PCR/ETV 4-80/3	3700
	ETV 4-100 400V/3Ph	/ G	4" / 100mm	4	PCR/ETV 4-100/3	4200
	ETV 5.5-100 400V/3Ph	/ H	4" / 100mm	5.5	PCR/ETV 5.5-100/3	4450
	ETV 7.5-100 400V/3Ph	/ I	4" / 100mm	7.5	PCR/ETV 7.5-100/3	4650
	ETV 9-100 400V/3Ph	/ J	4" / 100mm	9	PCR/ETV 9-100/3	4750
	ETV 11-150 400V/3Ph	/ K	6" / 150mm	11	PCR/ETV 11-150/3	7150
	ETV 15-150 400V/3Ph	/ L	6" / 150mm	15	PCR/ETV 15-150/3	7350
	ETV 18.5-150 400V/3Ph	/ M	6" / 150mm	18.5	PCR/ETV 18.5-150/3	7500



For further information on the ETV range please contact one of our Sales Team.

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PT SERIES

The PTE vertical chopper pumps are driven by an electric motor, while the PTC vertical chopper pumps, equipped with gear-box, are driven via a PTO shaft. Both are heavy duty, robust pumps designed for professional use. The PTEM and PTCM versions also have a nozzle jet mixer. Both versions are equipped with a multi impeller and double chopping system in suction.

APPLICATIONS

- FOOD EFFLUENTS
- INDUSTRIAL PROCESSING
- AGRICULTURE
- SEWAGE & TREATMENT WORKS
- BIOGAS PROCESS
- DAIRY FARM WASTE

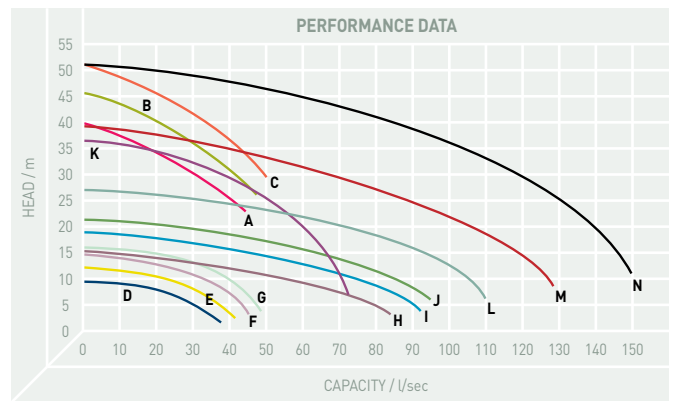
FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 4 - 18.5kW OUTPUT
- 80 - 150mm DISCHARGE
- AVAILABLE FROM 2m TO 5m SHAFT LENGTH
- DOUBLE CHOPPING SYSTEM



PTC SERIES

PTE SERIES



	PUMP TYPE	CURVE	OUTLET "/ mm	KW	CODE	PRICE £
ELECTRIC MOTOR DRIVEN	PTE 15-80 400V/3Ph	/ A	3" / 80mm	15	PCR/PTE 15-80/3	P.O.A.
	PTE 18.5-80 400V/3Ph	/ B	3" / 80mm	18.5	PCR/PTE 18.5-80/3	P.O.A.
	PTE 22-80 400V/3Ph	/ C	3" / 80mm	22	PCR/PTE 22-80/3	P.O.A.
	PTE 4-100 400V/3Ph	/ D	4" / 100mm	4	PCR/PTE 4-100/3	P.O.A.
	PTE 5.5-100 400V/3Ph	/ E	4" / 100mm	5	PCR/PTE 5.5-100/3	P.O.A.
	PTE 7.5-100 400V/3Ph	/ F	4" / 100mm	7.5	PCR/PTE 7.5-100/3	P.O.A.
	PTE 9-100 400V/3Ph	/ G	4" / 100mm	9	PCR/PTE 9-100/3	P.O.A.
	PTE 11-150 400V/3Ph	/ H	6" / 150mm	11	PCR/PTE 11-150/3	P.O.A.
	PTE 15-150 400V/3Ph	/ I	6" / 150mm	15	PCR/PTE 15-150/3	P.O.A.
	PTE 18.5-150 400V/3Ph	/ J	6" / 150mm	18.5	PCR/PTE 18.5-150/3	P.O.A.
PTO DRIVEN	PTC 40-100	/ K	4" / 100mm	40	PCR/PTC 40-100/3	P.O.A.
	PTC 40-150	/ L	6" / 150mm	40	PCR/PTC 40-150/3	P.O.A.
	PTC 60-150	/ M	6" / 150mm	60	PCR/PTC 60-150/3	P.O.A.
	PTC 95-150	/ N	6" / 150mm	95	PCR/PTC 95-150/3	P.O.A.

For further information on the PTEM or PTCM ranges of chopper pumps with jet nozzle, please contact our Sales Team.



PTH SERIES

The PTH series is a range of high pressure centrifugal chopper pumps, ideal for particularly heavy duty applications. These pumps have an overgear-box that is driven by a PTO shaft. They have multi-channel impellers, and double chopping system.

These pumps are recommended for applications that require a substantial head and adequate chopping of the solid materials, present in the liquid being pumped, ideal for systems with self-propelled sprinklers or marked height differences and long pipelines.

APPLICATIONS

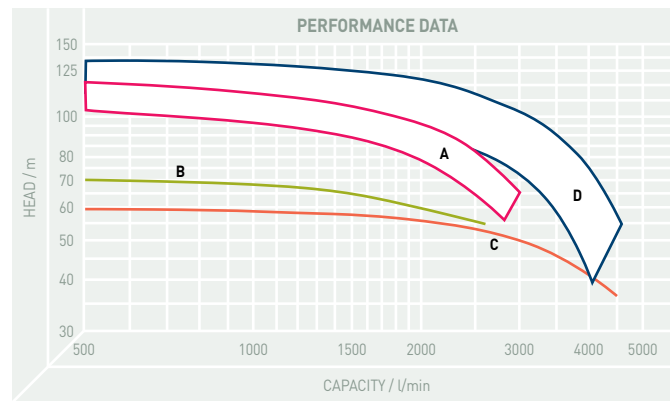
- FOOD EFFLUENTS
- INDUSTRIAL PROCESSING
- AGRICULTURE
- UMBILICAL SYSTEMS
- IRRIGATION OF FARM LIQUIDS
- SEWAGE & TREATMENT WORKS
- BIOGAS PROCESS

FEATURES

- CAST IRON CONSTRUCTION
- DOUBLE MECHANICAL SEAL WITHIN OIL BATH
- 65 - 100mm DISCHARGE
- HEAVY DUTY CHOPPING ACTION
- DOUBLE CHOPPING SYSTEM



PTH SERIES



WHY NOT SPEAK TO OUR TEAM FOR A DEMONSTRATION ON YOUR SITE?

PUMP TYPE	CURVE	INLET x OUTLET mm	CODE	PRICE £
PTH 65	/ A	150 x 65	PCR/PTH65/3	3650
PTH 80	/ B	100 x 80	PCR/PTH80/3	3200
PTH 100	/ C	150 x 100	PCR/PTH100/3	3400
PTH 80K	/ D	150 x 80	PCR/PTH80K/3	4800



Handy Hint! Ideal for systems with self-propelled sprinklers, marked height differences and long pipelines.

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PTO / PTF SERIES

The PTO / PTF series are a range of horizontal centrifugal chopper pumps, ideal for particularly heavy duty applications.

The PTO series are coupled with electric motors or diesel engines by a flexible coupling.

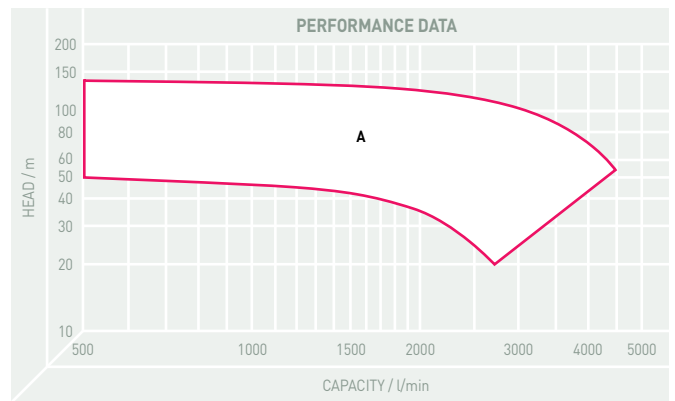
The PTF series are flanged to the flywheels of the diesel engine with standard 'SAE' housing. Both versions are equipped with multi-vane impeller and double chopping system in the suction inlet. These pumps are recommended for systems with self-propelled sprinklers, marked height differences and long pipes.

APPLICATIONS

- FOOD EFFLUENTS
- INDUSTRIAL PROCESSES
- AGRICULTURE
- IRRIGATION
- SEWAGE & TREATMENT WORKS
- BIOGAS PROCESS

FEATURES

- CAST IRON CONSTRUCTION
- MECHANICAL SEAL WITHIN OIL BATH
- 80mm DISCHARGE
- HEAVY DUTY CHOPPING ACTION
- ADAPTABLE DESIGN
- DOUBLE CHOPPING SYSTEM



PUMP TYPE	CURVE	INLET x OUTLET mm	CODE	PRICE £
PTO 80K	/A	150 x 80	PCR/PTO80K/3	3900
PTF3 80K	/A	150 x 80	PCR/PTF3/80K/3	4000
PTF4 80K	/A	150 x 80	PCR/PTF4/80K/3	4100

Please also see other Chopper pumps for a more comprehensive selection - if you need any help in choosing the most suitable pump please contact us for assistance.



T-T SEPARATOR RANGE

The Separator range is recommended for the solid-liquid separation of slurry. It has a rotary double-threaded screw in a wedge wire screen. The components are made in treated stainless steel for longevity.

Can reduce moisture content on sludges down to 25%.

APPLICATIONS

- AGRICULTURAL & INDUSTRIAL
- ABATTOIRS
- PAPER INDUSTRY
- FOOD INDUSTRY
- BIOGAS PROCESS

FEATURES

- HEAVY DUTY CONSTRUCTION
- CAST IRON & STAINLESS STEEL CONSTRUCTION
- MECHANICAL SEAL
- SEPARATOR ROTATION: 33 RPM
- 4 - 5.5kW OUTPUT
- SCREEN SIZES FROM 0.25 - 1mm
- BASIC & PROFESSIONAL VERSIONS AVAILABLE
- HIGH DRY MATTER VERSION ALSO AVAILABLE



SEPARATOR



PUMP TYPE	SEPARATOR ROTATION rpm	SCREEN MESH mm	CAPACITY m ³ /h	kW	WEIGHT kg	CODE	PRICE £
SM 260/25	33	0.25	4 - 20	4	390	PCR/SM260/25	P.O.A.
SM 260/50	33	0.50	8 - 25	4	390	PCR/SM260/50	P.O.A.
SM 260/75	33	0.75	10 - 38	4	390	PCR/SM260/75	P.O.A.
SM 260/100	33	1.00	14 - 50	4	390	PCR/SM260/100	P.O.A.
SM 300/25	33	0.25	6 - 29	5.5	465	PCR/SM300/25	P.O.A.
SM 300/50	33	0.50	12 - 37	5.5	465	PCR/SM300/50	P.O.A.
SM 300/75	33	0.75	15 - 56	5.5	465	PCR/SM300/75	P.O.A.
SM 300/100	33	1.00	19 - 72	5.5	465	PCR/SM300/100	P.O.A.



We offer full site survey and design facility for all separation systems, so please call our Sales Team. To see this product in action visit: <http://www.youtube.com/watch?v=U7nAEp9CK6A&feature=related>

CFS SHREDDER SERIES

NEW
PRODUCT

The CFS series is designed to shred solid materials suspended in the substrate before entering into the digester. It can be supplied with a suction or compression pump or operate under head without a pump. Ideal for shredding long fibres and objects of medium to large dimensions.

The system comprises two series of opposing blades with specially designed profiles for shredding solid materials suspended in fluids.

A gearbox integrated into the body of the shredder generates different rotation speeds between the two blade support shafts, optimising the process.

APPLICATIONS

- AGRICULTURE
- LIVESTOCK
- FOOD INDUSTRY
- SLAUGHTERHOUSES
- WASTE DISPOSAL PLANTS



CFS SHREDDER SERIES



PUMP TYPE	MOTOR RATING kW	RPM	CAPACITY m ³ /h	MAX TORQUE N/m	WEIGHT kg	PRICE £
CFS 400/3Ph	3	1450	50	300	230	P.O.A.

BMC MACERATOR SERIES

NEW
PRODUCT

The BMC series is designed for maceration and homogenization of the biomass before entering into the digester. It can be provided with a loading system, which may be a hopper or a conveyor belt, and a discharge system, which may be another conveyor belt or directly to the pump. Available with electric motor or PTO for tractor.

BMC MACERATOR



APPLICATIONS

- BIOGAS PROCESS

FEATURES

- ELECTRIC MOTOR POWER 37kW
- 2400RPM
- CAPACITY 30m³/h
- BLADES IN WEARPROOF STEEL
- TRANSMISSION WITH PULLEYS AND TRAPEZOIDAL BELTS
- HYDRAULIC ADJUSTMENT SYSTEM FOR THE HOLDING TIME OF MATERIALS INSIDE THE MACERATOR



PUMP TYPE	MOTOR RATING kW	RPM	CAPACITY m ³ /h	PRICE £
BMC 400/3Ph	37	2400	30	P.O.A.

PLD SERIES

NEW
PRODUCT

The PLD series of pumps are designed for high density fluid. Combined with a BMC Macerator it can form a system for maceration, homogenization, and loading for a biogas digester.

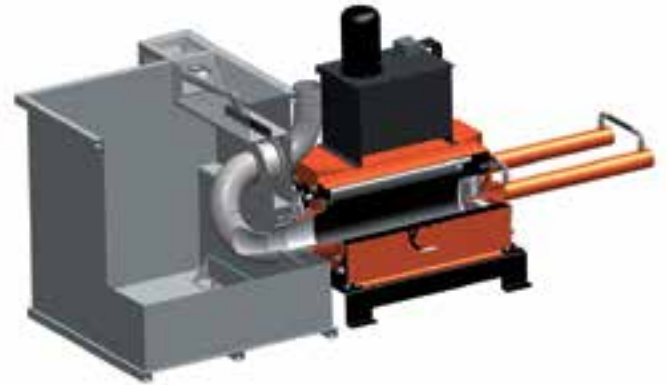
It comprises a materials loading tank supplying the double pump pistons and an automatic valve system that permits alternating loading and unloading of the pistons.

APPLICATIONS

- AGRICULTURE
- LIVESTOCK
- FOOD INDUSTRY
- SLAUGHTERHOUSES
- WASTE DISPOSAL PLANTS
- BIOGAS PROCESS

FEATURES

- HYDRAULIC MOTOR POWER 5.5kW
- CAPACITY 10 - 30m³/h
- HEAD 80m
- PISTONS STROKE 900mm



PLD SERIES

PUMP TYPE	MOTOR RATING kW	CAPACITY m ³ /h	PRICE £
PLD SERIES	5.5	10 - 30	P.O.A.



MXL MIXER SERIES

NEW
PRODUCT

A lateral mixer powered by electric three phase motor with planetary gearbox. Constructed in stainless steel and with an oil bath lubricated transmission shaft with structural support, this mixer can be supplied in different lengths and the installation angle can be chosen as required. Particularly suitable for breaking crusts or homogenizing fluids near to the solids inlet area, this product is also available in a version with ATEX electric motor. The machine provides mixing with the same characteristics as a TBM of equal power but with the advantage of a motor and reduction unit external to the digester and the possibility of reaching different points inside the digester with the mixing rotor.



APPLICATIONS

- AGRICULTURE
- LIVESTOCK
- FOOD INDUSTRY
- WASTE DISPOSAL PLANTS
- BIOGAS PROCESS

FEATURES

- LATERAL EXTERNAL MIXER
- PLANETARY GEARBOX
- POWER 11.5 - 18.5kW
- AXIAL THRUST 1475 - 3725N
- CAPACITY 3286 - 6702m³/h
- MAX LENGTH OF PROPELLER SHAFT 5.5m
- PROPELLER IN STAINLESS STEEL WITH SELF-CLEANING PROFILE
- MAXIMUM WORKING TEMPERATURE 60°C

MXL SERIES



TYPE	MOTOR RATING kW	RPM	NOMINAL LENGTH m	EFFECTIVE LENGTH mm	OVERALL LENGTH mm	DIAMETER PROPELLER mm	CAPACITY m³/h	AXIAL FORCE N
MXL 11/4/1.5	11	351	1.5	2063	3125	600	3286	1475
MXL 11/4/3	11	351	3	3563	4625	600	3286	1475
MXL 11/4/4.5	11	351	4.5	5063	6125	600	3286	1475
MXL 11/4/5.5	11	351	5.5	6063	7125	600	3286	1475
MXL 15/4/1.5	15	351	1.5	2063	3125	720	5489	2859
MXL 15/4/3	15	351	3	3563	4625	720	5489	2859
MXL 15/4/4.5	15	351	4.5	5063	6125	720	5489	2859
MXL 15/4/5.5	15	351	5.5	6063	7125	720	5489	2859
MXL 18/4/1.5	18	351	1.5	2063	3125	780	6702	3725
MXL 18/4/3	18	351	3	3563	4625	780	6702	3725
MXL 18/4/4.5	18	351	4.5	5063	6125	780	6702	3725
MXL 18/4/5.5	18	351	5.5	6063	7125	780	6702	3725

Price on application.



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MXV MIXER SERIES

A series of vertical shaft mixers with external electric motors.

These mixers are very compact machines, complete with motor and shaft support protected by an external oil bath bearings. Optional shaft length up to 1500mm. The shaft and impeller are in stainless steel.

Designed installation is in the vertical position.

APPLICATIONS

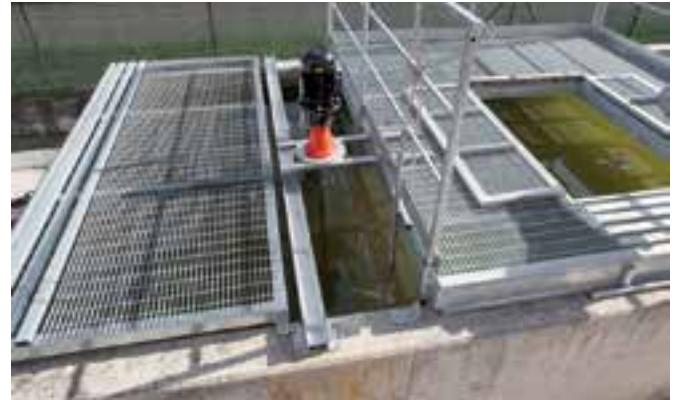
- AGRICULTURE
- INDUSTRIAL PAINTING
- WASTEWATER TREATMENT
- CHEMICALS
- BIOGAS PROCESS

FEATURES

- LATERAL EXTERNAL MIXER
- 4 AND 6 POLES, 900 - 1400RPM
- POWER 0.75 - 3kW
- PROPELLER IN STAINLESS STEEL WITH SELF-CLEANING PROFILE
- MAXIMUM WORKING TEMPERATURE 60°C



MXV SERIES



	TYPE	MOTOR RATING kW	BLADES	RPM	CAPACITY m ³ /h	AXIAL FORCE N	PRICE £
01 4 POLE MOTOR	MXV 0.75/4	0.75	3	1400	318	153	P.O.A.
	MXV 1.1/4	1.1	3	1410	372	223	P.O.A.
02 6 POLE MOTOR	MXV 1.5/6	1.5	3	955	535	201	P.O.A.
	MXV 2.2/6	2.2	3	940	833	280	P.O.A.
	MXV 3/6	3	3	935	1137	429	P.O.A.

BRINGING WATER TO LIFE

Clean water pumps and systems

A reliable and energy efficient range which employs the latest manufacturing and design technology throughout production.

The Range

- Stainless steel multistage horizontal and vertical pumps
- Stainless steel borehole pumps
- In-line circulation pumps
- Immersion type multi-stage centrifugal pumps
- Stainless steel pumps for conveying mixed gases and liquids
- Stainless steel horizontal single stage centrifugal pumps
- Light stainless steel horizontal single stage centrifugal pumps
- High power wash down sets

Applications

- Water supply & boosting
- Irrigation
- Borehole
- Washdown



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COMPACTORS SCREENING & SCREEN EXTRACTORS

The Screen Compactor is a slimline combined machine consisting of:

- **SCREEN**
A drilled or wedge-wire metal screen section with mesh sizes 0.25mm to 10mm
- **CONVEYOR**
To elevate the captured solids out of the effluent and dewater by gravity conveying them towards the pressing zone
- **PRESS**
Dewatering and compressing the screenings to give a volume reduction of up to 40%

The Screen Extractor comes without the pressing section.

MODELS

- SFC = Screen press for channel installation
- SFC/T = Screen press installed in a self-supporting container
- SF = Screen without press for channel installation
- SF/T = Screen without press in a self-supporting container

RANGE AND PERFORMANCE

- Throughput rates up to 1000m³/h
- Screen mesh size ranging from 0.25mm to 10mm
- Screen width ranging from 200mm to 700mm
- Volume reduction up to 40%

DESIGN FEATURES

- STAINLESS STEEL HOUSING
- SHAFTLESS SPIRAL SCREW MADE OF CARBON STEEL OR STAINLESS STEEL

ACCESSORIES

- SINGLE OR CONTINUOUS BAGGING UNIT
- HEATING FOR COLD REGIONS
- SCREENINGS WASHING FOR FAECAL REMOVAL
- WITH BY-PASS OVERFLOW (ON MODEL T ONLY)
- THE UNITS CAN BE MANUFACTURED FROM STAINLESS STEEL, ON REQUEST



These products require careful selection. Please speak to our Sales Team for full information and pricing.

APPLICATIONS

Municipal waste water treatment plants:

- AT ENTRANCE OF PLANT WITH AVERAGE MESH SIZE OF 5mm
- AS FINE SCREEN AFTER COARSE SCREEN WITH AVERAGE MESH SIZE OF 2mm

Industrial effluent screening in:

- TANNERIES AT DISCHARGE
- VEGETABLE PROCESSING (PEAS, BEANS, POTATOES)
- WHITE FISH PROCESSING AT DISCHARGE
- PAPER MILLS FOR REMOVAL OF PLASTICS, FIBRE, WOOD CHIPS
- AIRPORT SERVICES FOR DISCHARGING AIRCRAFT LAVATORIES
- MOTORWAY SERVICES FOR LAVATORY DISCHARGE
- CATTLE AND PIG ABBATOIRS BEFORE DISCHARGE
- DAIRY PROCESSING BEFORE DISCHARGE
- BREWERIES
- DRINKS PROCESSING
- WINERIES
- TEXTILES
- SUPERMARKETS
- ALPINE RESORTS
- TOURIST VILLAGES
- CHEMICALS
- CATTLE BREEDING



VARIATIONS

STS-type Shaftless Spiral Conveyors:

- STS = Horizontal and inclined shaftless spiral conveyors
- STS/V = Vertical shaftless conveyors
- STS/D = Twin screw conveyor for high outloadings

Traditional shaftless screw conveyor design - the shaftless spiral is driven by a direct drive without the need for hanger bearings. Suitable for the transport of dewatered sludges, screenings, grit and solid waste.

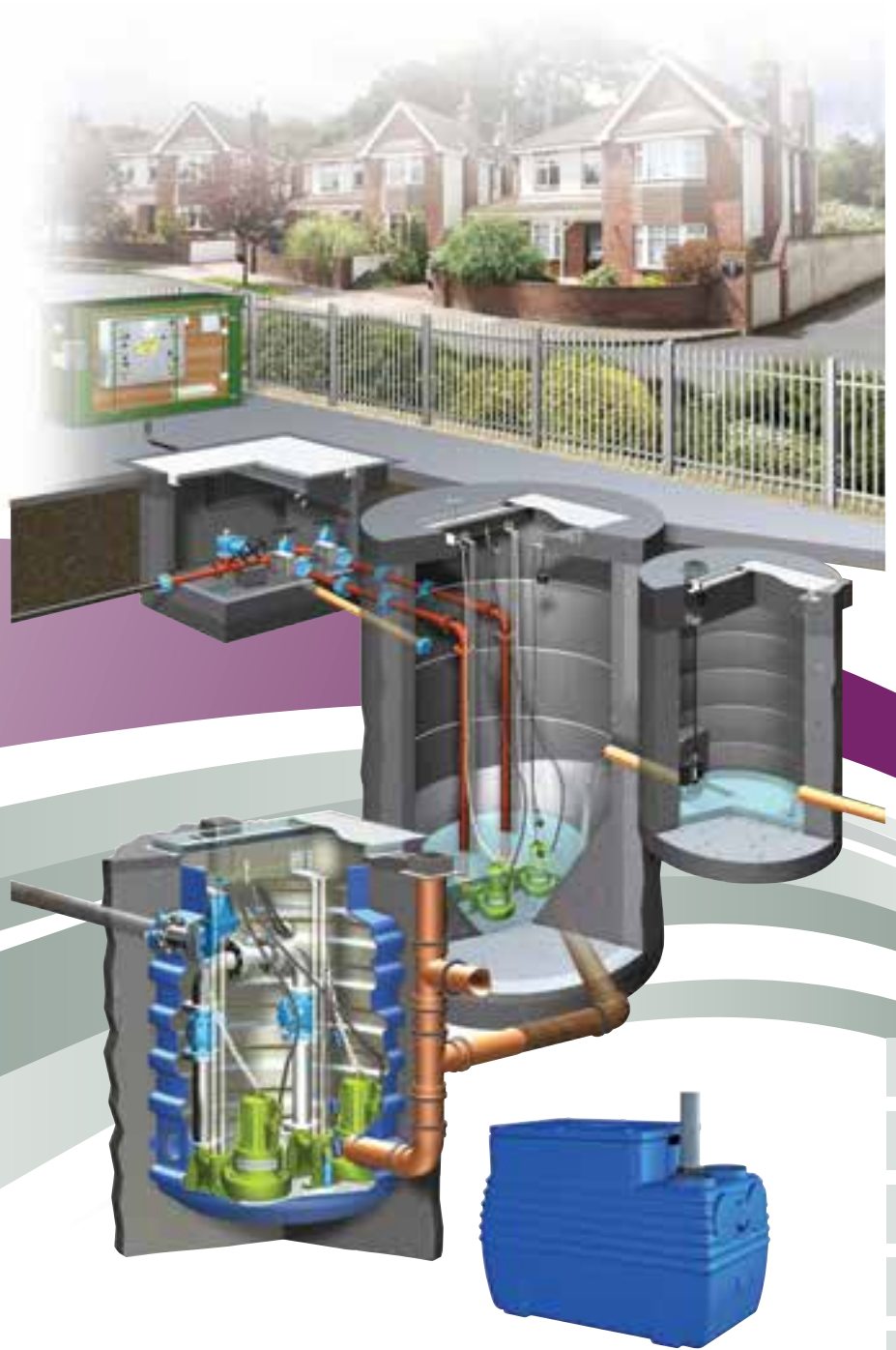
SDS Shaftless Screw Compactor:

A single machine for transportation, dewatering and compression of solids. Ideal for use with screenings and solid wastes from sewage and industrial waste streams.





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PUMPING
STATIONS
PUMPING

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PUMPING STATIONS INDEX

PUMPING SYSTEM	APPLICATIONS								PAGE
	SHOWER	WASHING MACHINE	BIDET	BATH	WASH BASIN	DISH WASHER	TOILET	DOMESTIC WASTE WATER	
UTILITY BOX	✓	✓	✗	✓	✓	✓	✗	✗	17
BLUE BOX	✓	✓	✓	✓	✓	✓	✓	✓	18
LOOPAK	✓	✓	✓	✓	✓	✓	✓	✓	19

PUMPING SYSTEM	APPLICATIONS								PAGE
	DOMESTIC WASTE WATER	DRAINAGE WATER	FOOD PROCESS	SEWAGE & TREATMENT WORKS	SCHOOL/ HOSPITAL	HOTEL/ NURSING HOME	HOUSING ESTATE	WASTE WATER	
PLUTO	✓	✓	✗	✗	✗	✗	✗	✓	16
PLANET RANGE	✓	✓	✓	✓	✓	✓	✓	✓	12 - 13
XL & XXL	✓	✓	✓	✓	✓	✓	✓	✓	14 - 15
ADOPTABLE	✓	✓	✓	✓	✓	✓	✓	✓	05 - 08
LARGER / BESPOKE	✓	✓	✓	✓	✓	✓	✓	✓	09
PUREFLOW	✓	✗	✗	✓	✓	✓	✓	✓	20 - 21

PUMPING SYSTEM	APPLICATIONS					PAGE
	INDUSTRIAL	HOUSE	GARDEN	TOILET	WASHING MACHINE	
RAINCYCLE	✓	✓	✓	✓	✓	22 - 25

For selection questionnaires please refer to pages 29 - 31.

INTRODUCTION

We boast more than 50 years in providing pumping systems from the smallest to largest schemes, from a simple system to a highly complex scheme requiring many disciplines.

Over our many years in the industry we have worked hard to collect some of the best knowledge in the design and provision of pumping stations. This has enabled us to form five strong divisions of expertise:

- T-T Pumps - Pumps
- T-T Pumping Stations - Pumping Stations
- T-T Controls - Controls
- T-T Service - Service
- Aquaflow - Valves

The collective divisions under one roof, which do not rely on subcontractors, have the expertise you can trust and rely upon. Quality products and engineering are essential in a demanding industry where reliability and efficiency are paramount. Our Planet® Range of Package Pumping Stations have BBA accreditation, whilst our Uniqua® range of pumps has ATEX approval and attains the IE3 rating for efficiency.

Adoptable Pumping Stations have been a main activity of the company since the privatisation of the Water Companies of England and Wales, and we worked closely with all these companies to ensure that all pumping stations obtained Adoption at the earliest practical date.

Treatment Plants

A range of Waste Water Treatment Plants for small populations which produce an effluent to comply with discharge consent limits.

Important

The information given is for your initial guidance. For each scheme, general arrangement drawings are issued on receipt of order. For your further assistance, more comprehensive details are available and we will be pleased to provide additional information and advice.

Our aim is to provide you with a completely satisfactory solution for your pumping needs.

Raincycle

Specifically designed to utilise rainwater which would normally go to waste. Three units available - gardens, commercial and industrial and could help save up to 46% on water bills.



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DEVELOPERS CHOICE

The choice of utilising Adoptable or Non Adoptable Pumping Stations is very often a case of economies and whether the necessary space is available for an Adoptable Pumping Station.

NON ADOPTABLE PUMPING STATION



The non-adoptable pumping station can be utilised in:

- SINGLE DWELLINGS
- BUSINESS PREMISES / OFFICES
- COMMERCIAL PROPERTY
- INDUSTRIAL
- HOTELS
- NURSING HOMES
- CARAVAN PARKS

Pros and Cons

- A non-adoptable pumping station is far more economical to install as it does not require the need to meet the demands of the Water Companies' specifications
- The pumping station will be equally as reliable and efficient as the equivalent adoptable pumping station
- Quick and easy to install
- Less space required
- Overall costs less
- Property owners will be responsible for running and maintenance costs

ADOPTABLE PUMPING STATION



The adoptable pumping station can be utilised in:

- MULTIPLE HOUSING DEVELOPMENTS
- COMMERCIAL

Pros and Cons

- Adoptable stations will have to comply with the current requirements of Sewers for Adoption and amendments by the local Water Company
- Lead time and adoption is longer
- Running and operating costs are responsibility of Water Companies after adoption

Please contact us for further advice in selecting the most appropriate pumping solution for your application, or complete the questionnaire on page 31.

ADOPTABLE PUMPING STATIONS



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ADOPTABLE PUMPING STATIONS

STAGES FROM CONCEPT TO ADOPTION

WHAT IS SEWERS FOR ADOPTION?

The basis of Sewers for Adoption is to ensure that the developer builds to a required standard and quality. To achieve 'Adoption' of a pumping station the specification, build and installation of the system would have to be compliant with Local Water Company specifications. Details of these specifications are found in the 'Sewers for Adoption' guidelines, published by WRc Plc, which is the standard set for the design and construction of sewers within the UK.

CONCEPT TO PROJECT

We like to be involved at the early stage to advise on the most effective way to position and construct the pumping station and what is the most economical solution. Each client will receive a single specialist to liaise with on a day-to-day basis and who will manage your project.

TENDER / QUOTATION / ORDER

A competitively priced service is offered that will meet with your criteria, with no additional hidden costs and on receipt of official instruction to proceed you will receive an agreed programme of works.

DESIGN

In-house design facilities are used, incorporating the latest technology, to create full design and manufacturing drawings, these will be specific to your project. Having this feature in-house allows us greater flexibility to respond to design up-dates and amendments. During the design process, we will if required, communicate with the Water Company and the developers' design team to ensure that all aspects of the pumping station are comprehensively covered.

EQUIPMENT MANUFACTURE

Once design approval has been obtained, the final manufacturing stage will commence for the pumps, control system, pipe work, valves and ancillary equipment - a bespoke arrangement to your site's specific requirements. Lead times are kept to a minimum and due to the in-house manufacture of most equipment and our large stock-holding there is no need for external resources.



Please contact us for further advice in selecting the most appropriate pumping solution for your application, or complete the questionnaire on page 31.

INSTALLATION

All installation work is carried out by our own highly trained and skilled installation teams who have the necessary combined electrical / mechanical skills to install pumping stations. A full installation report is left with the developers' site representative detailing any items which need attention related to the civil work or the M&E installation prior to commissioning.

COMMISSIONING

Our commissioning engineers will undertake a full check of the installation, ensuring that the installation is safe and meets all of the required standards. A full installation report will be given and a certificate of electrical completion is also issued once all equipment has been commissioned.

MAINTENANCE PERIOD

The mechanical and electrical equipment provided in our pumping systems are offered with a 12 month warranty as standard against any defective parts/faults, unfortunately this does not include for blockages, misuse or vandalism. Extended warranties can be offered on request.

In addition our Service Department will follow up our commissioning visit with an offer of a maintenance contract whereby you will be able to have peace of mind that your installation will be regularly inspected and maintained thus reducing the risk of un-necessary expensive breakdowns. Service visits can be tailored to meet your needs and can be adjusted as necessary.

ADOPTION

We are familiar with the requirements of all Utility Companies which enables us to provided the correct equipment to meet the needs of your particular scheme.

T-T will control the Adoption process from concept through to Adoption on your behalf to ensure a smooth handover to the Utility Company incorporating all documentation from a design package to operating and maintenance manuals. Pre-handover inspections are a standard feature of our service liaising with the Adoptions Engineers to ensure a smooth, uninterrupted handover.

SEWERS FOR ADOPTION

For housing developments, it's both practical and cost-effective to construct a wastewater and sewage pumping station that can be 'adopted' by the local water company - eliminating the developers' responsibility for future maintenance and running costs.

Having worked with all Water Companies over the years T-T are fully aware of their requirements, expectations and current legislation. This enables us to ensure that your project runs smoothly and that the station is Adopted within the fastest most cost-effective time frame.



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ADOPTABLE PUMPING STATIONS

An Adoptable pumping station is required for inflows from domestic dwellings where the local Water Company will adopt the pumping station on satisfactory completion to Sewers for Adoption (SFA7) specification and contributing standards.

Adoptable pumping stations are categorised into four types which is determined by inflow:

Note

SFA7 is applicable at the time of printing and may update, also each water company has its own requirements that are in addition to SFA7 specification. Please consult with T-T Pumping Stations to ensure that the requirements are met for your pumping station.

TYPE	PEAK FLOW UP TO	MAX DWELLING	MINIMUM DISTANCE FROM DWELLING m	PUMP kW
TYPE 1	≤ •25LT/SEC	5	5	N/A
TYPE 2	≥ •25 TO 1 LT/SEC	20	10	N/A
TYPE 3	≥ 1 LT/SEC	20+	15	≤ 30kW
TYPE 4	LARGER PUMPING STATIONS			≥ 30kW

WHAT OUR CUSTOMERS SAY ABOUT US:

"They are my supplier of choice and I will be using them on another new site. We have no health and safety issues with them and the site team followed all our procedures and needed no extra supervision.

T-T stuck to their tender price and subsequent adoption of all stations has gone without incident."

David Wilson Homes

"T-T Controls / T-T Pumps have been supplying Pumps & Controls systems to London Underground & Transport for London for a minimum of 10 years and as a very satisfied ex-employee of those companies I can say T-T has been and still are a very professional organisation and a pleasure to do business with.

There is a 'will do' attitude that comes from the very top and works its way down."

GGL Consultancy

"I have been using T-T Pumps now for 20 years and they have always provided not only an excellent product, but their advice and knowledge has been of great benefit, both with regards to subsequent design and of financial benefit."



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LARGER SCHEMES

LARGER & BESPOKE SCHEMES

The diversity of our product range coupled with our knowledge and experience allows us to supply larger and bespoke pumping stations designed and engineered to your exact specifications. Whatever your requirement T-T have the knowledge and experience to support you.

CASE STUDIES

A number of pumping stations have been supplied and installed for enabling works at Victoria Underground Station. The sewage scheme consisted of 2 stations both with DGN pumps, controlled by bespoke control panels specifically designed for non-critical sites.

We were pleased to supply and commission four pumping stations at a new 167,667m² Marks and Spencer distribution centre. The pumping stations were installed to deal with waste and rainwater at the offices and incorporated GR Blue Pro, MAN, and DGO Pumps, alongside various valves and ancillary equipment, all controlled using a number of dual control panels housed in GRP kiosks.

As part of the M1 motorway widening scheme, T-T were selected to supply, install and commission two drainage pumping stations. The first of the two stations was fitted with 4 x 18.5kW pumps and the second fitted with 4 x 11kW pumps, each station is controlled with a multi-sectional floor standing motor control centre.

T-T was selected to supply the pumping system for a Grand Designs project at an old lifeboat station in Tenby. However, this project was no normal feat, as careful consideration had to be given towards the location of the system, extreme weather conditions and access for maintenance. Suspended under the property, T-T supplied two submersible sewage pumps within a stainless steel tank, a bespoke control panel and a small chemical dosing unit - to inject chemicals into the tank to prevent odours, septicity and to break up congealed fat build up. Please see page 28 for selection questionnaire, which allows us to make the best selection for you.

For more information or advice about pumping systems please speak to our experienced team on **01630 647200**.



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Please contact us for further advice in selecting the most appropriate pumping solution for your application, or complete the questionnaire on page 31.



High Performance, Low Energy Submersible Sewage Pumps

Efficiency, Reliability, Choice

- 4 to 200kW motors, designed to reach the Premium Efficiency Class IE3 according to the CEI EN 60034/30 regulations
- 2, 4, 6 and 8 pole motors
- DN80 to DN400 discharge ports
- Vortex impellers with full free passage and channels with anti-blockage systems



Please refer to our Uniqua literature or website for full information.

PACKAGE PUMPING STATIONS



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The **XL & XXL Planet® Range of Package Pumping Stations**, designed and manufactured by T-T, provide an efficient and economical way of installing a sewage / drainage pumping station.

FEATURES

- DESIGNED AND MANUFACTURED IN THE UK
- PUMP STATIONS ARE WELL ENGINEERED AND MANUFACTURED, AND HAVE PASSED RIGOROUS AND DETAILED TESTING, SITE INSPECTIONS AND FACTORY PRODUCTION CONTROL ASSESSMENT
- EACH PUMP CHAMBER IS MADE OF STRONG GRP
- SMOOTH INTERNAL WALLS AID THE HYGIENIC DISPOSAL OF EFFLUENTS, TO AVOID SMELLS AND SEPTICITY
- PACKAGES COME COMPLETE WITH PIPEWORK PRE-ASSEMBLED IN THE CHAMBER, READY FOR INSTALLATION INTO THE GROUND, AFTER WHICH THE PUMPS AND CONTROL EQUIPMENT ARE ADDED
- ALL PACKAGE PUMPING STATIONS ARE SUPPLIED WITH CONTROLS FOR FULLY AUTOMATIC OPERATION, AND A HIGH-LEVEL ALARM INDICATOR AS STANDARD
- UNITS CAN BE ADAPTED TO SUIT INDIVIDUAL REQUIREMENTS AT MANUFACTURING STAGE
- PACKAGES ARE AVAILABLE ON SHORT LEAD-TIMES TO FIT IN WITH TIGHT CONSTRUCTION SCHEDULES
- A COMPREHENSIVE INSTRUCTION MANUAL IS PROVIDED

APPLICATIONS

- DOMESTIC
- COMMERCIAL
- INDUSTRIAL

A wide range of submersible pumps can be used for the Package Pumping Stations; we are able to select these from T-T's complete range, in order to match your requirements.

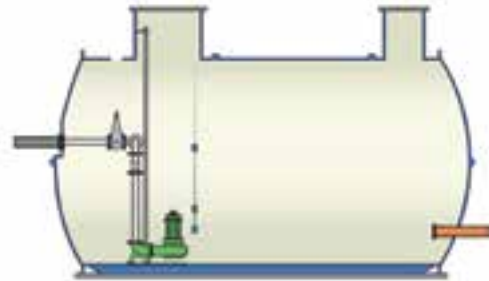
Please see page 28 for selection questionnaire, which allows us to make the best selection for you.

IMPORTANT

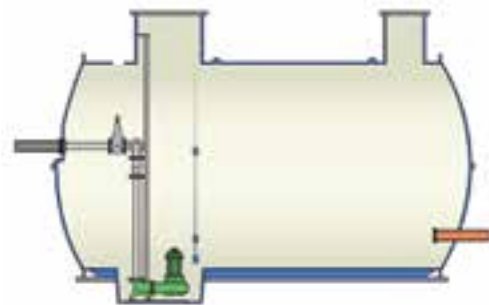
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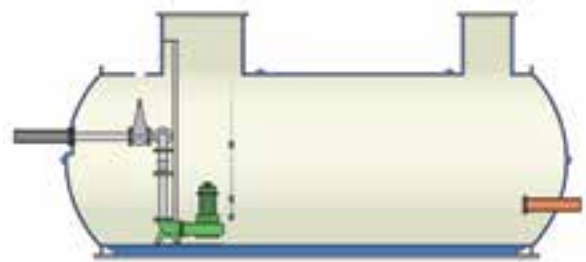
Our aim is to provide you with a completely satisfactory solution for your pumping needs.



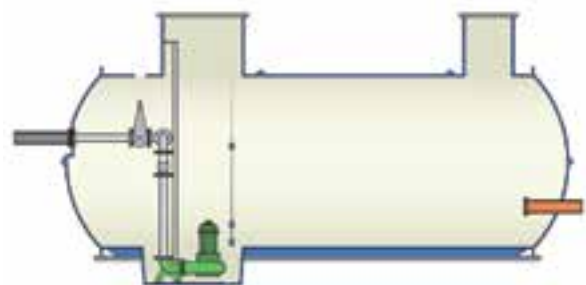
XL SHALLOW SUMP



XL WITH PUMP SUMP

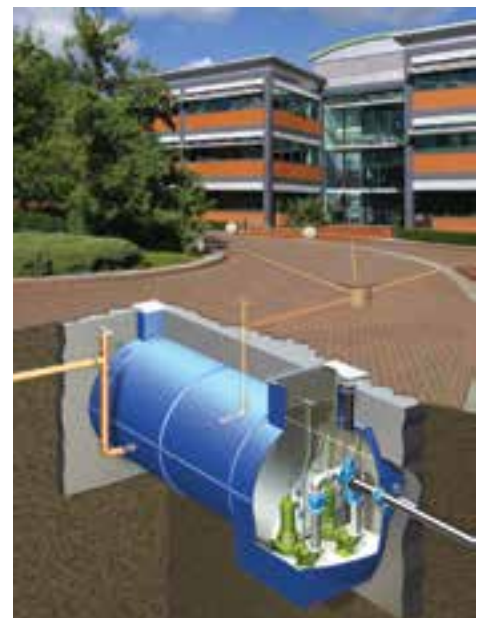


XXL SHALLOW SUMP



XXL WITH PUMP SUMP

MODEL REF	CHAMBER SIZE LITRES	INTERNAL DIAMETER mm	INTERNAL LENGTH mm	EXTERNAL DIAMETER mm	EXTERNAL LENGTH mm	SHALLOW SUMP HEIGHT mm	WITH PUMP SUMP HEIGHT mm
XL	10000	2200	3100	2400	3300	2600	2900
XL	12500	2200	3750	2400	3950	2600	2900
XL	15000	2200	4420	2400	4620	2600	2900
XL	17500	2200	5070	2400	5270	2600	2900
XL	20000	2200	5730	2400	5930	2600	2900
XL	22500	2200	6390	2400	6590	2600	2900
XL	25000	2200	7050	2400	7250	2600	2900
XL	27500	2200	7710	2400	7910	2600	2900
XL	30000	2200	8370	2400	8570	2600	2900
XL	35000	2200	9680	2400	9880	2600	2900
XL	40000	2200	1100	2400	11200	2600	2900
XXL	25000	3200	3760	3450	4010	3650	3925
XXL	30000	3200	4390	3450	4640	3650	3925
XXL	32500	3200	4700	3450	4950	3650	3925
XXL	35000	3200	5010	3450	5280	3650	3925
XXL	37500	3200	5320	3450	5570	3650	3925
XXL	40000	3200	5830	3450	5880	3650	3925
XXL	42500	3200	5940	3450	6190	3650	3925
XXL	45000	3200	6250	3450	6500	3650	3925
XXL	47500	3200	6560	3450	6810	3650	3925
XXL	50000	3200	6870	3450	7120	3650	3925
XXL	55000	3200	7500	3450	7750	3650	3925
XXL	60000	3200	8120	3450	8370	3650	3925
XXL	65000	3200	8740	3450	8990	3650	3925
XXL	70000	3200	9370	3450	9620	3650	3925
XXL	75000	3200	9990	3450	10240	3650	3925
XXL	80000	3200	10610	3450	10880	3650	3925
XXL	85000	3200	11230	3450	11480	3650	3925
XXL	90000	3200	11650	3450	12100	3650	3925



TYPICAL DUAL PUMP PACKAGE PUMPING STATION

COVER SLAB BY CLIENT

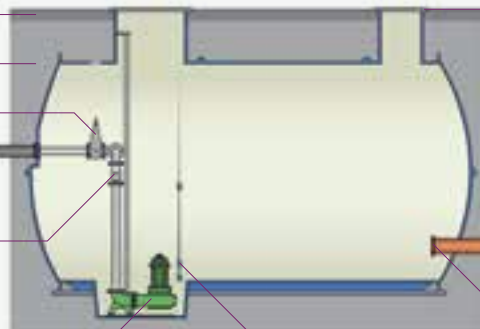
CONCRETE SURROUND BY CLIENT

ISOLATION GATE VALVE

OUTLET FOR CONNECTION TO RISING MAIN

2 NON-RETURN VALVES

DUAL OR TRIPLE PUMPS WITH THE OPTION OF SEPARATE OR COMBINED DISCHARGE PIPES. PIPEWORK OPTIONS: 50mm / 80mm / 100mm / 150mm / 200mm



GALVANISED ACCESS COVER

OPTIONAL EXTERNAL INLET PIPEWORK ACCEPTS 160mm O/D PIPE (OR 110mm O/D WITH ADAPTOR)

HIGH-LEVEL ALARM FLOAT-SWITCH. POSITION TO BE CONFIRMED BY CLIENT AT ORDER STAGE

3 STANDARD INLET SOCKETS ACCEPT 160mm O/D PIPE (OR 110mm O/D WITH ADAPTOR)

LEVEL CONTROL FLOAT-SWITCHES

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Full range of valves available, please speak to our Sales Team for further information.

The **Planet® Range of Package Pumping Stations**, designed and manufactured by T-T and approved by the BBA, provide an efficient and economical way of installing a sewage / drainage pumping station.

FEATURES

- PUMP CHAMBERS ARE WELL ENGINEERED AND MANUFACTURED, AND HAVE PASSED RIGOROUS AND DETAILED TESTING, SITE INSPECTIONS AND FACTORY PRODUCTION CONTROL ASSESSMENT BY THE BRITISH BOARD OF AGREEMENT TO ACHIEVE CERTIFICATION APPROVAL
- EACH PUMP CHAMBER IS MADE OF STRONG, MEDIUM-DENSITY POLYETHYLENE
- SMOOTH INTERNAL WALLS AID THE HYGIENIC DISPOSAL OF EFFLUENTS, TO AVOID SMELLS AND SEPTICITY
- PACKAGES COME COMPLETE WITH PIPEWORK PRE-ASSEMBLED IN THE CHAMBER, READY FOR INSTALLATION INTO THE GROUND, AFTER WHICH THE PUMPS AND CONTROL EQUIPMENT ARE ADDED
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- PACKAGES ARE AVAILABLE ON SHORT LEAD-TIMES TO FIT IN WITH TIGHT CONSTRUCTION SCHEDULES
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A wide range of submersible pumps can be used for the Package Pumping Stations; we are able to select these from T-T's complete range, in order to match your requirements.

Please see page 28 for selection questionnaire, which allows us to make the best selection for you.

IMPORTANT

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Our aim is to provide you with a completely satisfactory solution for your pumping needs.



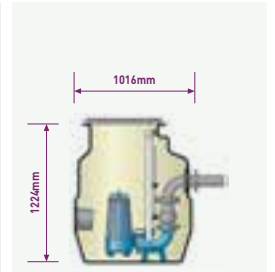
MERCURY® SINGLE / DUAL * PUMP

The Mercury® is ideal for small flows from a single dwelling and where excavation depth is limited.

COMPATIBLE PUMPS

- CUTTER 80mm
- GRINDER 50mm
- VORTEX 50mm / 80mm

*Dual pumps only available with 50mm Vortex / Grinder.



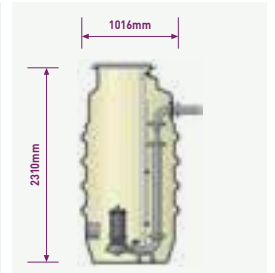
VENUS® SINGLE / DUAL * PUMP

The Venus® chamber is the most popular size for use in a single dwelling, toilet block, or small office serving up to 10 people.

COMPATIBLE PUMPS

- CUTTER 80mm
- GRINDER 50mm
- VORTEX 50mm / 80mm

*Dual pumps only available with 50mm Vortex / Grinder.

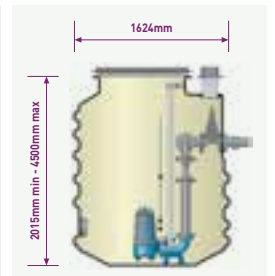


SATURN® DUAL PUMP

The Saturn® chamber for two pumps, is suitable for small housing and industrial / commercial developments, restaurants, small hotels / nursing homes, caravan sites.

COMPATIBLE PUMPS

- CUTTER 80mm / 100mm
- GRINDER 50mm / 80mm / 100mm
- VORTEX 50mm / 80mm / 100mm
- CHANNEL 80mm / 100mm

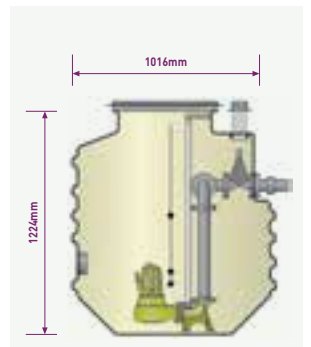


JUPITER® DUAL PUMP

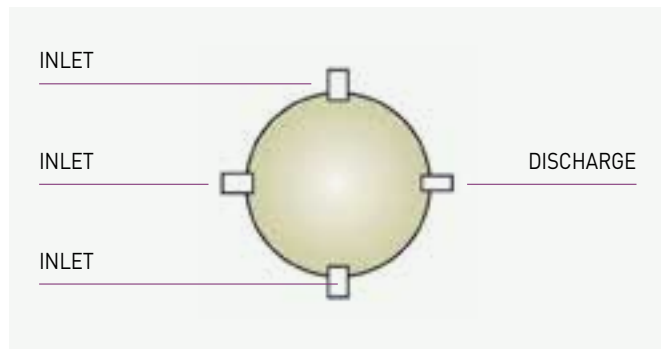
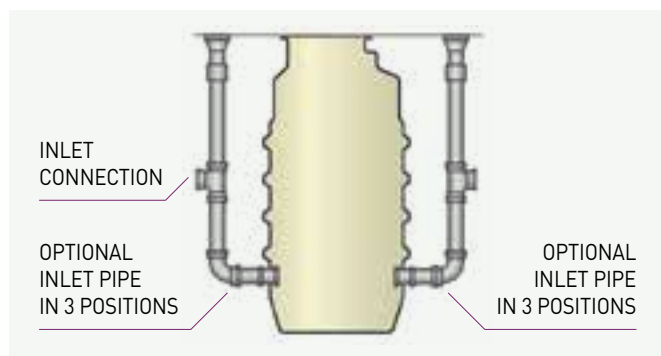
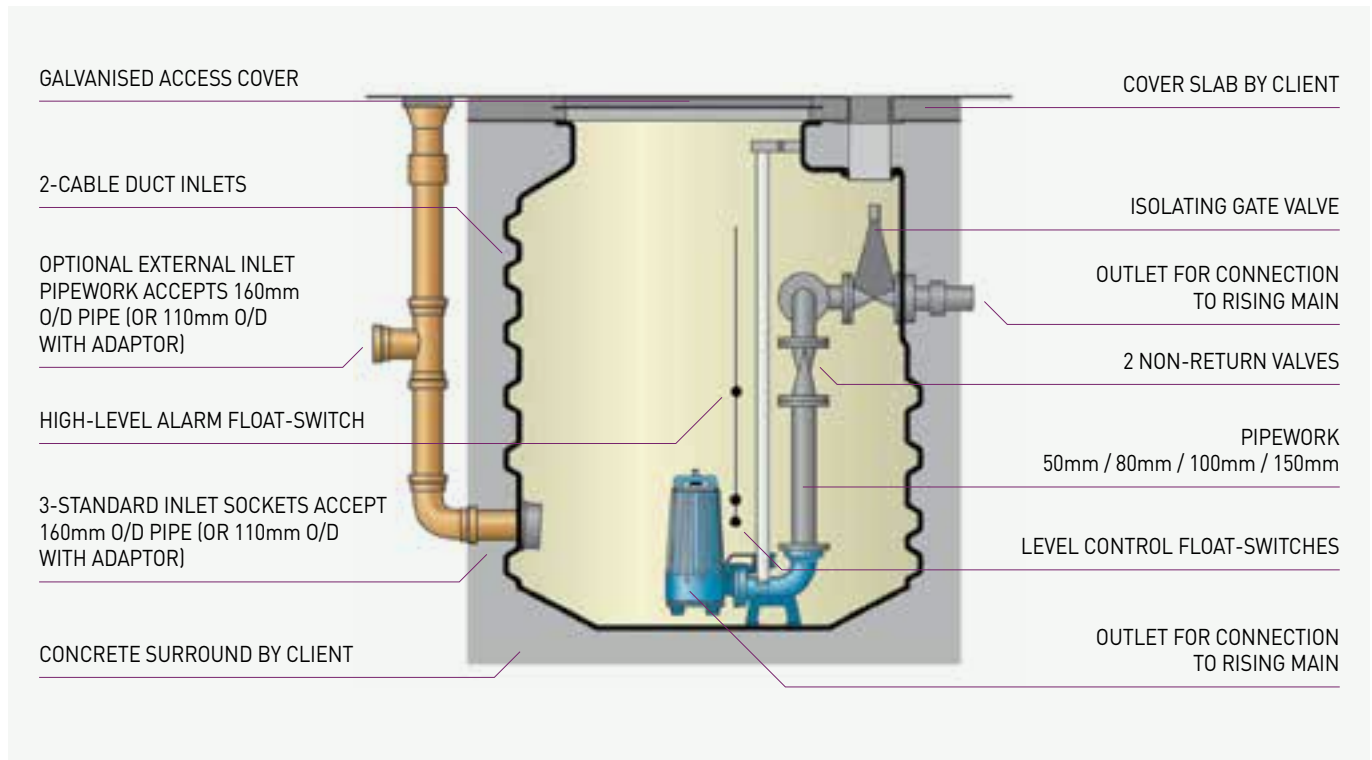
The two-pump Jupiter® pump station is the selection for larger developments, hotels, hospitals, sewage works. The basic unit is capable of special build modification to provide capacities up to 15,000 litres, and can be incorporated into schemes where, for example Sewers for Adoption specification is required.

COMPATIBLE PUMPS

- CUTTER 80mm / 100mm
- GRINDER 50mm / 80mm / 100mm
- VORTEX 50mm / 80mm / 100mm
- CHANNEL 80mm / 100mm / 150mm



TYPICAL DUAL PUMP PACKAGE PUMPING STATION



THE PLANET® RANGE OF PUMPING STATIONS

IMPORTANT FOUR EASY STAGES TO A T-T PUMPS PACKAGE PUMPING STATION

1 SELECT - ORDER

2 EXCAVATE

3 INSTALL STATION AND CONNECT SERVICES

4 COMMISSION AND SET INTO OPERATION



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The **Pluto Pumping Station** is the most effective means for collecting and removing excess water collected from cavity drainage systems.

The fully automatic unit is designed and built for reliability and long life and employs a high performance pump range that can be selected to meet your specific application.

OPTIONS

- SINGLE MAINS POWERED PUMP WITH BATTERY BACK UP, 2ND PUMP 12V DC POWERED. COMPLETE WITH CONTROL FACILITY IN PANEL FOR BATTERY BACK-UP OPERATION AND CHARGING SYSTEM
- DUAL MAINS POWERED PUMPS FOR DUTY STANDBY ARRANGEMENT, WITH DUAL PUMP CONTROL PANEL (230V)
- SEWAGE PUMPS CAN BE PROVIDED FOR SMALL APPLICATIONS

TECHNICAL DETAILS

- LIQUID CAPACITY: 160 LITRES
- CHAMBER MATERIAL: MDPE
- INLETS: 2 NO 110mm
- DISCHARGE: 32mm OR 63mm HDPE DEPENDING ON PUMP SELECTION

AFTER SALES SUPPORT

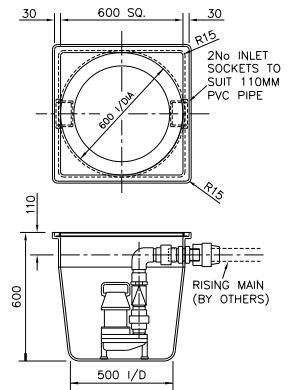
- FULL AFTER SALES SUPPORT AVAILABLE FOR REGULAR MAINTENANCE AND EMERGENCIES

STANDARD FEATURES

- SINGLE AUTOMATIC SUBMERSIBLE PUMP (230V) WITH INTERNAL PIPEWORK, QUICK RELEASE COUPLING, NON-RETURN VALVE, HIGH LEVEL FLOAT SWITCH
- MAINS/BATTERY POWERED HIGH LEVEL ALARM UNIT FEATURING LIGHT AND AUDIBLE ALARM WITH MUTE BUTTON
- STRONG POLYETHYLENE CHAMBER WITH 160 LITRE OPERATING STORAGE
- 32 / 63mm MDPE DISCHARGE CONNECTION
- STRONG ACCESS COVER PRODUCED IN GALVANISED MILD STEEL. (DIFFERENT ACCESS COVERS AVAILABLE ON REQUEST)
- 2 LOWER LEVEL 110mm INLETS TO ACCOMMODATE STANDARD DRAINAGE CONNECTIONS



PLUTO
(ILLUSTRATES DUAL OPTION)



UTILITY BOX

The T-T Utility Box is a high quality polyethylene tank intended for collecting water exclusively from domestic drains, including washing machines, showers and sinks. The tank has a 33 litre capacity and is supplied with a DR Steel submersible pump already installed.

Neatly constructed and with a small footprint, the Utility Box is a versatile and easy to install.

APPLICATION

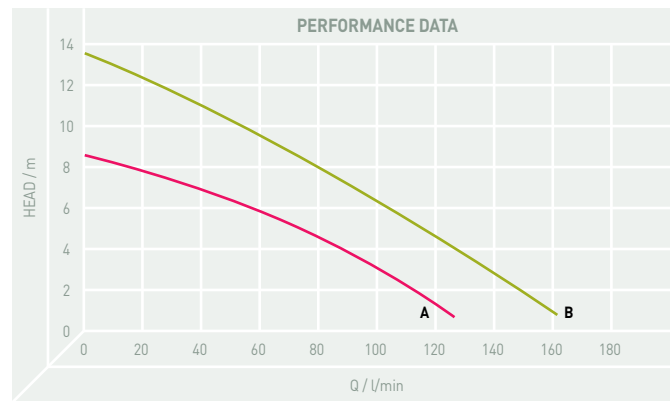
- IDEAL FOR COLLECTING WATER EXCLUSIVELY FROM DOMESTIC DRAINS, INCLUDING WASHING MACHINES, SHOWERS AND SINKS (NOT SUITABLE FOR WC'S)

FEATURES

- MAX WATER TEMPERATURE: 35°C (FOR SHORT PERIODS UP TO 75°C)
- FREE PASSAGE: 10mm
- VOLTAGE: 220/240V
- FREQUENCY: ~1.50Hz
- PROTECTION: IP68
- INLET: 1 x DN30, 1 x DN40
- CAPACITY: 33L
- START: AUTOMATIC WITH FLOAT SWITCH
- CABLE LENGTH: 10m



UTILITY BOX



TYPE	CURVE	FREE PASSAGE mm	kW	WEIGHT kg	CODE	PRICE £
DR STEEL 25 230V/1Ph	/ A	10	0.25	1.0	PP/UTILITYBOX/25	470
DR STEEL 37 230V/1Ph	/ B	10	0.37	1.0	PP/UTILITYBOX/37	495

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Full range of valves available, please speak to our Sales Team for further information.

BLUE BOX

The Blue Box is a Polyethylene Lifting Station, ideal for lifting household waste water, where gravity drainage is not possible. There are four sizes available, the smallest being the Blue Box 90 litre (for 1 pump) and the larger version being the Blue Box 400 litre (for 2 pumps). These units are designed to be used with vortex or grinder pumps.

There are two installation options available for the Blue Box: fixed installation and an Auto-coupling option using the DAC system.

The pump range to be used with the Blue Box are the following, please see our pump literature or website for these particular ranges for further information:

- DG Blue Pro 50, DG Blue Pro 75, DG Blue Pro 100, DG Blue Pro 150, DG Blue Pro 200
- *GR Blue Pro 100, *GR Blue Pro 150, *GR Blue Pro 200

APPLICATIONS

- DOMESTIC & INDUSTRIAL APPLICATIONS FOR THE REMOVAL OF SEWAGE AND DRAINAGE WATER
- CELLARS & BASEMENTS
- EXTENSIONS & CONSERVATORIES
- *COMPATIBLE WITH THE DAC SYSTEM OPTION

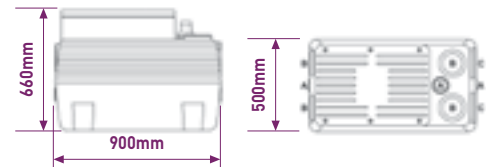
FEATURES

- POLYETHYLENE CONSTRUCTION
- SUITABLE FOR VORTEX AND GRINDER PUMPS 230V / 400V
- PEDESTRIAN COVER
- DAC SYSTEMS ALLOW EASY REMOVAL OF PUMPS FOR SERVICE AND MAINTENANCE

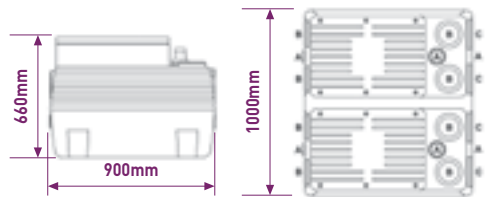


BLUE BOX

BLUE BOX 250 litre
 A: Ø 2"
 B: Ø 110mm
 C: Ø 125mm



BLUE BOX 400 litre
 A: Ø 2"
 B: Ø 110mm
 C: Ø 125mm



	PUMP TYPE	V / PHASES	KW	A	RPM	OUTPUT "/ mm	SUITABLE FOR BLUE BOX			
							90L	150L	250L	400L
01 02 03 04 05 06 VORTEX IMPELLER	DG BLUE 40/2/G40V A1BM/50	230V / 1Ph	0.3	2.3	2900	1 1/2" / 40mm	*			
	DG BLUE 50/2/G40V A1BM/50	230V / 1Ph	0.37	2.8	2900	1 1/2" / 40mm	*	*		
	DG BLUE 75/2/G40V A1BM/50	230V / 1Ph	0.55	4.1	2900	1 1/2" / 40mm	*	*		
	DG BLUE 100/2/G40V A1BM/50	230V / 1Ph	0.74	5.6	2900	1 1/2" / 40mm	*	*	*	*
	DG BLUE PRO 50/2/G40V A1BM/50	230V / 1Ph	0.37	2.8	2900	1 1/2" / 40mm		*		
	DG BLUE PRO 75/2/G40V A1BM/50	230V / 1Ph	0.55	4.1	2900	1 1/2" / 40mm		*		
	DG BLUE PRO 100/2/G40V A1BM/50	230V / 1Ph	0.74	5.6	2900	1 1/2" / 40mm		*	*	*
	DG BLUE PRO 150/2/G40V A1CM/50	230V / 1Ph	1.1	7.5	2900	2" / 50mm			*	*
	DG BLUE PRO 200/2/G40V A1CM/50	230V / 1Ph	1.5	10.0	2900	2" / 50mm			*	*
	DG BLUE PRO 50/2/G40V A1BT/50	400V / 3Ph	0.37	1.15	2900	1 1/2" / 40mm			*	
	DG BLUE PRO 75/2/G40V A1BT/50	400V / 3Ph	0.55	1.6	2900	1 1/2" / 40mm			*	
	DG BLUE PRO 100/2/G40V A1CT/50	400V / 3Ph	0.74	2.15	2900	1 1/2" / 40mm			*	*
	DG BLUE PRO 150/2/G40V A1BT/50	400V / 3Ph	1.1	3.2	2900	2" / 50mm				*
	DG BLUE PRO 200/2/G40V A1CT/50	400V / 3Ph	1.5	4.3	2900	2" / 50mm				*
07 08 09 GRINDER	GR BLUE PRO 100/2/G40H A1CM/50	230V / 1Ph	0.74	5.5	2900	1 1/4" DN32 PN6	*	*	*	*
	GR BLUE PRO 150/2/G40H A1CM/50	230V / 1Ph	1.1	7.5	2900	1 1/4" DN32 PN6			*	*
	GR BLUE PRO 200/2/G40H A1CM/50	230V / 1Ph	1.5	10.0	2900	1 1/4" DN32 PN6			*	*
	GR BLUE PRO 100/2/G40H A1CT/50	400V / 3Ph	0.74	2.7	2900	1 1/4" DN32 PN6	*	*	*	*
	GR BLUE PRO 150/2/G40H A1CT/50	400V / 3Ph	1.1	3.2	2900	1 1/4" DN32 PN6			*	*
	GR BLUE PRO 200/2/G40H A1CT/50	400V / 3Ph	1.5	4.3	2900	1 1/4" DN32 PN6			*	*

The Blue Box lifting stations are supplied ready for installation of pumps, which must be ordered separately. This also applies to any electric control panels. Our Sales Team can advise.



LOOPAK

Loopak is a macerator pump made up of a twin section box. It is designed to automatically grind and discharge: sewage, toilet paper, greasy water, acid and water (up to 100°C), originating from either a bathroom or a kitchen. There are two models of the Loopak:

THE DOMESTIC

Fitted with a 600 watt motor, suitable for all domestic applications.

THE PROFESSIONAL

Equipped with a 1000 watt motor and is designed for the more demanding applications found in offices, hotels, restaurants, pubs and clubs.

APPLICATIONS

LOOPAK DOMESTIC

- HOUSE & HOME

LOOPAK PROFESSIONAL

- HOTELS

- SHOPS

- RESTAURANTS

- PUBS

- OFFICES

FEATURES

- MACERATOR PUMP

- EXTREMELY VERSATILE

- CAN BE FITTED TO ANY EUROPEAN STANDARD W.C. BOWL WITH HORIZONTAL DISCHARGE

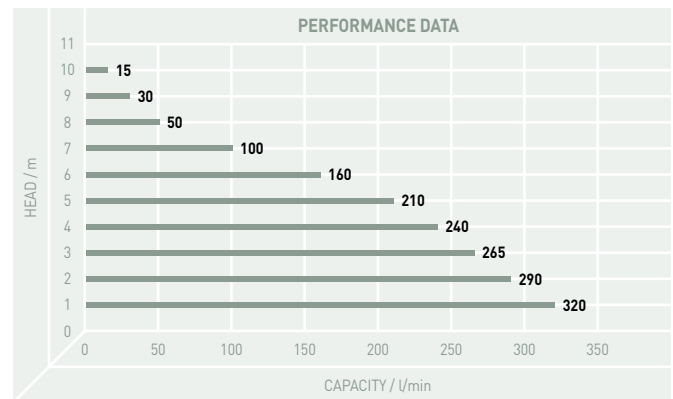
- UTILISES SMALL 32mm OR 40mm DISCHARGE PIPE

- VERY EASY MAINTENANCE; NO MESS

- MOTOR UNIT CAN BE SERVICED OR REPLACED WITHOUT DISTURBING TOILET AND WASTE CONNECTIONS



LOOPAK



PUMP TYPE	WEIGHT kg	CODE	PRICE £
LOOPAK DOMESTIC	11	LP/V-S008	540
LOOPAK PROFESSIONAL	12	LP/V-S007	750



Handy Hint! In the event of a fault, the removable unit can simply be detached from the fixed unit without the need to disconnect the w.c. bowl and the collection waste pipes.

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BABY PUREFLOW (6)

Baby Pureflow (6) is a wastewater treatment unit for households up to 6 persons and up to 4 bedrooms. The treatment unit has been built to work in harsh climates and is tested and certified according to CE EN 12566-3 standard.

BPF (6) has been independently tested to be the most reliable wastewater treatment unit. It is easy to maintain and service need is minimal. The biological treatment unit of BPF (6) is based on trickling filter technology which tolerates load variations and low flow periods very well. Flow peaks or electricity breaks do not cause overflow risk.

The underground installation saves physical space need in your garden. The biological treatment unit can be enhanced with a chemical treatment unit to flock phosphorus.

BPF(6) STANDARD DELIVERY CONTENT

- ELECTRIC CONTROL PANEL
- BABY PUREFLOW CHAMBER & FITTINGS
- AERATION PUMP & FITTINGS

OPTIONAL EXTRAS

- GROUND ANCHORING KITS
- ADDITIONAL CHEMICAL DOSING SYSTEM
- FINAL EFFLUENT PUMP STATION



BABY PUREFLOW (6)

PROCESS PERFORMANCE

- BOD7 = 18.8 MG/L
- SS = 28.9 MG/L
- PTOT = 1.08 MG/L
- NTOT = 24.1 MG/L

PUMP TYPE	EQUIVALENT POPULATION	HEIGHT OF UNIT mm	WIDTH mm	EMPTY WEIGHT kg	BOD7	PRICE £
BABY PUREFLOW	6	2500	1583	250	18.8	P.O.A.

PUREFLOW

The Pureflow effluent treatment plants are a range of units that cater for populations from 5 up to 250 people, producing an effluent to comply with discharge consent limits of BOD's, SS and nitrified effluents. The Pureflow units are robustly constructed, easy to install have good availability with short lead times.

APPLICATIONS

- HOUSING
- RESTAURANTS & HOTELS
- CARAVAN PARKS

FEATURES

- ODOUR FREE
- EASY INSTALLATION
- LOW MAINTENANCE
- ENVIRONMENTALLY ACCEPTABLE



JUNIOR PUREFLOW



SENIOR PUREFLOW

PUMP TYPE	EQUIVALENT POPULATION head	AVERAGE FLOW 200 l/h/d m³/d	APPLIED LOAD BOD5 60 g/h/d kg/d	UNIT WEIGHT (EMPTY) kg tonnes	UNIT WEIGHT (FULL) kg tonnes	INLET/OUTLET PIPE DIAMETER mm	PRICE £
JUNIOR PUREFLOW	7 - 28	1.4 - 5.6	0.42 - 1.68	0.25 - 0.80	3.02 - 12.80	100	P.O.A.

PUMP TYPE	EQUIVALENT POPULATION head	AVERAGE FLOW 200 l/h/d m³/d	APPLIED LOAD BOD5 60 g/h/d kg/d	UNIT WEIGHT (EMPTY) kg tonnes	UNIT WEIGHT (FULL) kg tonnes	INLET/OUTLET PIPE DIAMETER mm	PRICE £
SENIOR PUREFLOW	40 - 250	8 - 50	2.40 - 15	0.94 - 4.09	16.07 - 98.57	150	P.O.A.

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The RainCycle has been specifically designed to utilise rainwater which would normally go to waste, with three different systems available - Garden, Domestic or Commercial.

HOW A TYPICAL RAINCYCLE SYSTEM OPERATES

Rain water is captured from the roof and diverted into the RainCycle system, which then flows into the Volume Filter; as water flows through the inlet the level builds up and is equally distributed across the cascade.

The largest dirt particles flow over the primary filter cascading directly to the storm water drain or soak-away.

The pre-filtered water then flows over the secondary filter sieve (mesh size 0.65mm) and into the RainCycle chamber, via a calmed inlet which prevents disturbance of the settled sedimentation layer at the base of the chamber, ready for use.

APPLICATIONS

- FLUSHING
- LAUNDRY FACILITIES
- GARDEN WATER / IRRIGATION

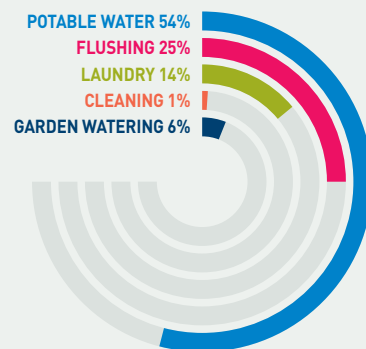
FEATURES

- CHAMBER SIZES FROM 1350 LITRES -13,000 LITRES WITH THE OPTION OF BESPOKE CHAMBERS UP TO 90,000 LITRES
- PUMP CHAMBERS ARE WELL MANUFACTURED AND ENGINEERED AND HAVE PASSED RIGOROUS TESTS
- OUR STANDARD PUMP CHAMBER IS MADE OF STRONG, MEDIUM DENSITY POLYETHYLENE, WITH THE BESPOKE CHAMBERS BEING MADE FROM GRP
- UNITS CAN BE ADAPTED TO SUIT INDIVIDUAL REQUIREMENTS AT MANUFACTURING STAGE
- AVAILABLE ON SHORT LEAD-TIMES
- CONTROL PANELS ARE INCLUDED AS STANDARD
- A COMPREHENSIVE INSTALLATION MANUAL IS INCLUDED AS STANDARD
- SYSTEMS INCORPORATING A BACK-UP FROM THE MAINS WATER SUPPLY REQUIRE A TYPE AA OR AB BACKFLOW PREVENTION DEVICE, IF USING A DIRECT SYSTEM WE OFFER A MAINS WATER TOP-UP BOX WHICH IS COMPLETE WITH BUILT IN AA AIR GAP



SAVINGS

UP TO 46% SAVING ON YOUR POTABLE WATER USAGE





GARDEN

The RainCycle Garden rain harvesting system is designed for recycled water use in the garden or small holding. Collected, filtered rainwater stored in an underground storage tank that does not obscure the landscape and where the temperature is stable.

FEATURES

- 1350L CHAMBER IS FITTED WITH AN INTERNAL FILTER WHICH HAS A CAPACITY FOR UP TO 200m² AREA
- LARGER CHAMBERS HAVE AN EXTERNAL FILTER WHICH HAS CAPACITY FOR UP TO 450m² AREA
- ALL TANKS ARE INSTALLED WITH A CALMED INLET WHICH PREVENTS DISTURBANCE OF ANY SETTLED SEDIMENT AT THE BASE OF THE TANK
- GARDEN CHAMBERS ARE INSTALLED WITH AN OVERFLOW FITTED WITH A RODENT BARRIER

- AN AUTOMATIC CONTROL PANEL OPERATES THE PUMPS, COMPLETE WITH LOW LEVEL PROTECTION TO STOP THE PUMP AND INDICATE LOW WATER LEVEL
- PRESSURE SWITCH TO OPERATE THE PUMP WHEN THE TAP IS OPENED
- FEEDS GARDEN TAPS DIRECTLY FOR OUTDOOR (NON-POTABLE) WATER USE

BEAT THE HOSEPIPE BAN!

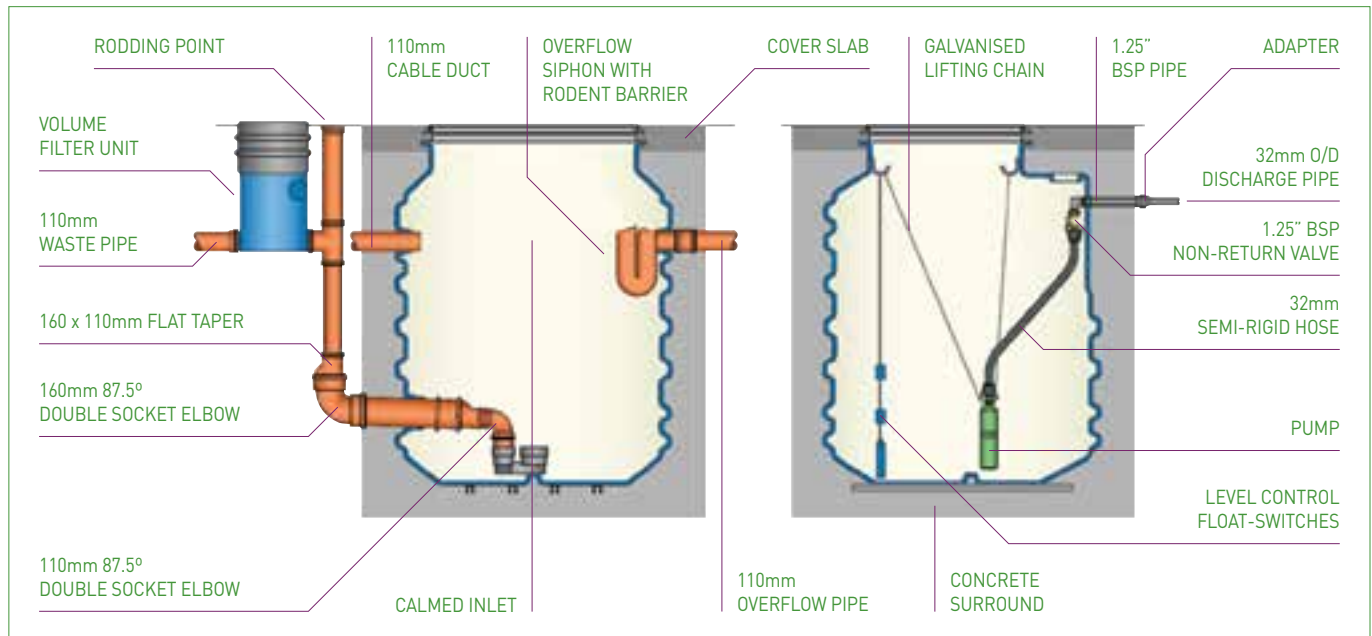
Since there is no mains water connection, this system can continue to be used without contravening any hose pipe restrictions in force in your area.

The RC500 multistage submersible pump is ideal for the transfer and pressurisation of clean water. The pump has a stainless steel construction and impeller with Noryl diffuser.

Quiet submerged pump, max head 35m, max flow 3.6m³/h (other pumps available on request).



RC500



For more information or chamber selection please speak to our experienced Sales Team.

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The RainCycle Domestic rain harvesting system is a below ground installation for the collection, filtration and storage of rainwater for use in the home and garden. The domestic system provides additional filtration on the pump intake as well as a skimmer siphon on larger systems to remove floating materials, which helps to prevent discolouration of the stored rainwater.

FEATURES

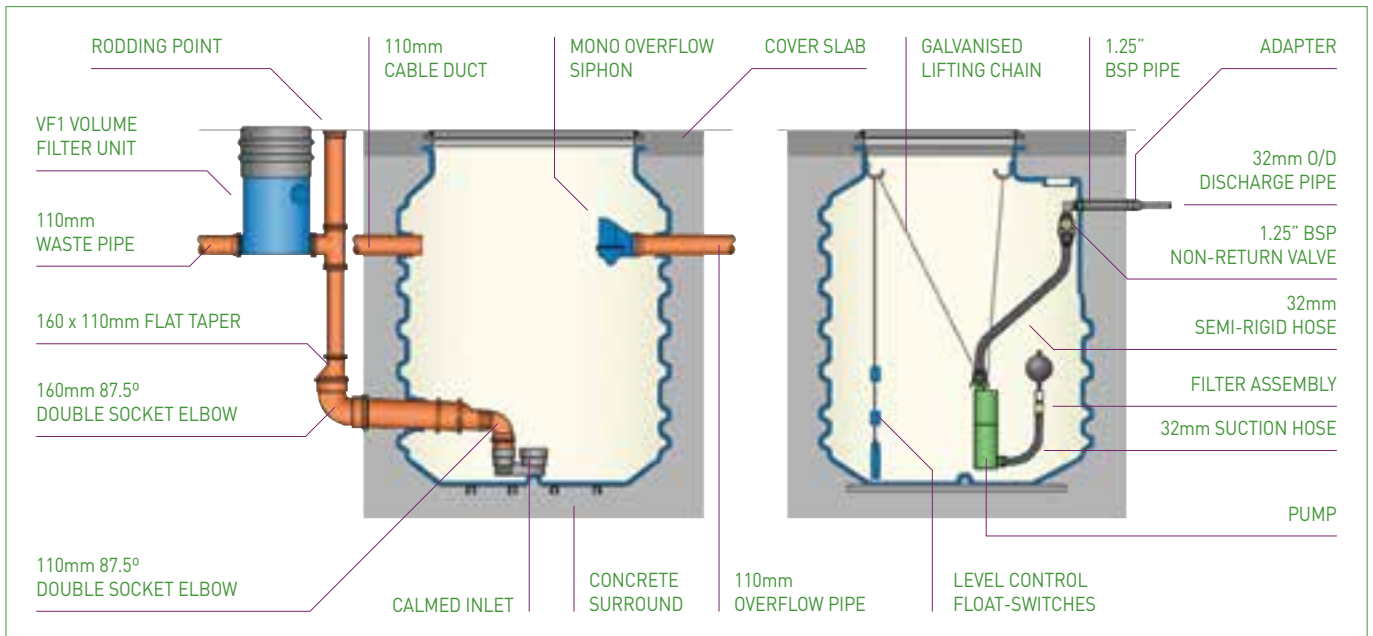
- 1350L CHAMBER IS FITTED WITH AN INTERNAL FILTER WHICH HAS A CAPACITY FOR UP TO 200m² AREA AND IS INSTALLED WITH AN OVERFLOW COMPLETE WITH RODENT BARRIER
- LARGER CHAMBERS HAVE AN EXTERNAL FILTER WHICH HAS CAPACITY FOR UP TO 450m² AREA AND ARE FITTED WITH A MODIFIED SKIMMER SIPHON
- ALL TANKS ARE INSTALLED WITH A CALMED INLET WHICH PREVENTS DISTURBANCE OF ANY SETTLED SEDIMENT AT THE BASE OF THE TANK
- PUMP FITTED WITH FLOATING INTAKE FILTER WHICH SITS JUST BELOW THE SURFACE WATER LEVEL TO TAKE THE BEST QUALITY WATER WITHIN THE SYSTEM
- SUITABLE FOR DIRECT OR INDIRECT PRESSURISED SYSTEMS
- FEEDS TOILETS, URINALS, LAUNDRY, CLEANING AND OUTDOOR GARDEN TAPS FOR ALL (NON POTABLE WATER USE)
- AN AUTOMATIC CONTROL PANEL OPERATES THE SYSTEM COMPLETE WITH LOW LEVEL PROTECTION TO STOP THE PUMP. AN AUTOMATIC WATER TOP UP IS FEATURED ON A DIRECT PRESSURISED SYSTEM
- PRESSURE SWITCH TO OPERATE THE PUMP WHEN THE TAP IS OPENED

The RC900 multistage submersible pump is ideal for the transfer and pressurisation of clean water. Suitable for domestic and industrial use. The pump has a Stainless Steel construction and impeller with Noryl diffuser.

Quiet submerged pump, max head 60m, max flow 6.3m³/h (other pumps available on request).



RC900



For more information or chamber selection please speak to our experienced Sales Team.

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COMMERCIAL



RainCycle Commercial rain harvesting system offers ground installation for the collection, filtration and storage of rainwater for use within commercial and larger developments. The Commercial system can provide storage for up to 90,000 litres within a single chamber and are designed specifically for each scheme to meet requirements.

Please contact our sales team for further information and advice.

The RainCycle has economic benefits for larger schemes where pooled water resources can reduce water costs.

APPLICATIONS

- COMMUNITY HOUSING
- MULTIPLE DWELLINGS
- FLAT / OFFICES / WORKSHOPS
- INDUSTRIAL PROCESSES
- COMMUNITY CENTRES
- SUPERMARKETS
- SCHOOLS
- HOSPITALS



Maintenance

The system needs minimal maintenance, but we would suggest that your RainCycle is inspected by our Service Engineers at least once per year to ensure that all filters are clean and clear, and sediment levels are acceptable to ensure optimum performance.

A Service Agreement Scheme is available, contact us for further information.

Commissioning

Once the electricity supply and liquid connections are made the RainCycle system is ready to be commissioned. Our engineers can undertake a full check of the installation, ensuring that it is safe and to specification. Checks are carried out to verify the RainCycle system's operational sequence and its overall function.

A full installation and commissioning report is provided to the site representatives.

Health and Safety

T-T attaches the highest priority to Health and Safety issues.

All Service Engineers work in teams of two and are fully qualified for:

- Confined Space Working
- First Aid
- 17th Edition of IEE Wiring Regulations

Where multiple dwellings are drawing off one RainCycle we would recommend that a metering system is introduced.

Sizing of the RainCycle

The amount of water available for use is dependent on the rain water collection area, which will normally be from the roof, and local rain fall, which varies from area to area. Usage of water needs to be considered; for normal domestic use, we take that a nominal amount of total water used can be rainwater and will depend on the usage data you provide in the following questionnaire.

Normally this will vary for commercial property and where residents may want to use more water for the garden.

To help us to make the best selection for your application, please complete the following questionnaire, which can be easily posted or faxed. Alternatively please go to our website www.ttpumps.com and complete online.

Considerations for selecting a RainCycle

The RainCycle can be happily introduced into most schemes as part of a new build or as a retrofit, but care should be taken to understand the limitations and maintenance requirements.

- Small schemes will have an extended payback period
- Recovered rainwater is not suitable for human consumption
- All taps and pipework used to convey rainwater must be clearly labelled
- Systems incorporating a back-up from the mains water supply require a type AA or AB backflow prevention device
 - A type AA air gap conforming to EN 13076:2003 to prevent pollution by backflow of potable water - unrestricted air gap
 - A type AB air gap conforming to EN 13077:2008 to prevent pollution by backflow of potable water - air gap with non-circular overflow
- Gutters used for collecting the rain water should be checked and cleaned regularly. Avoid areas where large amounts of bird or animal droppings are likely
- The RainCycle system should be checked by the user periodically to ensure that the system is clean and that it operates correctly
- Every 12 months the RainCycle system should be inspected and serviced by a competent engineer. T-T offer a reassuring and economical Service Agreement Scheme
- Care should be taken when selecting roofs for rainwater collection. Only use roofs that are in a good state of repair and away from areas of heavy leaf deposits. Avoid using roofs covered in asbestos, old steel corrugation that is rusty and roofs with mastic covering or repairs, as the quality of water collected will be impaired

SUPPORTING SERVICES

HEALTH AND SAFETY

T-T has an exemplary reputation for its health and safety standards, covering employees, clients and general public. We attach the highest priority to health and safety and prior to any work commencing on site T-T's method statement and risk assessments will be submitted.

Our engineers are also fully qualified for:

- IEE Wiring regulations
- First Aid
- Construction Skills Certification Scheme
- Confined Space Working



RISK ASSESSMENTS AND METHOD STATEMENTS (RAMS)

Site specific RAMS are produced for each installation taking into account site conditions and hazards together with our method of installation and commissioning.

QUALITY

Quality procedures are vital in every project and our total company activities come within the scope of ISO 9001:2008 Quality Management System approval.



SURVEYS & INSPECTION

T-T can undertake surveys for selection of pumping equipment and inspections of pumping schemes for insurance assessment, pre-adoption and general feasibility studies. The pumping scheme will be fully inspected mechanically, electrically and for operational capability with a full report of our engineers' findings and recommendations.



REFURBISHMENTS

Modernising stations improves both efficiency and reliability. Refurbishments of older pumping stations are available from a pump upgrade to full refurbishment with minimum disruption.

AFTER-SALES SERVICE

Once your equipment is delivered, you can have complete confidence in T-T to provide comprehensive after-sales back-up, offering full service and maintenance agreements on request.



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FOR THE TOUGHEST OF APPLICATIONS

PTS Chopper Pumps

- Heavy duty chopper pumps with the ability to handle higher solids concentrations than standard pumps
- Open multi-channel impeller, ideal for minimal clogging of waste water containing large solid particles
- Double chopping system
- Robust cast iron construction
- Large through passage

Applications

- Sewage pumping station
- Food processing effluents
- Agriculture and Farms
- Sewage and treatment works
- Caravan sites



RAINCYCLE QUESTIONNAIRE

PLEASE ENSURE THE UP-STREAM AND DOWN-STREAM INVERT LEVELS ARE DESIGNED TO FACILITATE THE BACK DROP THROUGH THE FILTER INLET AND BYPASS.

	GARDEN	<input type="checkbox"/>
	DOMESTIC	<input type="checkbox"/>
	COMMERCIAL	<input type="checkbox"/>

YOUR SITE DATA	
SITE / SCHEME NAME	
SCHEME LOCATION POSTCODE	
WATER AVAILABLE	
ROOF TYPES	
PITCHED ROOF <input type="checkbox"/> / TILE <input type="checkbox"/> / SLATE/CONCRETE <input type="checkbox"/> / FLAT ROOF <input type="checkbox"/>	
GRAVEL COVER <input type="checkbox"/> / CULTIVATED OR GRASS <input type="checkbox"/> / OTHER <input type="checkbox"/> (PLEASE SPECIFY)	
ROOF AREA m²	

WATER DEMAND	
NUMBER OF PEOPLE	AREA m²
A TOILETS	F GARDEN WATERING m²
B URINALS	G SPORTS GROUND m²
C LAUNDRY	H OTHER m²
D CLEANING	
E OTHER	
HIGHEST POINT THAT WATER IS TO BE PUMPED m²	
DISTANCE FROM RAINCYCLE TO DISCHARGE POINT m²	
WHAT IS THE REQUIRED SYSTEM PRESSURE? m²	

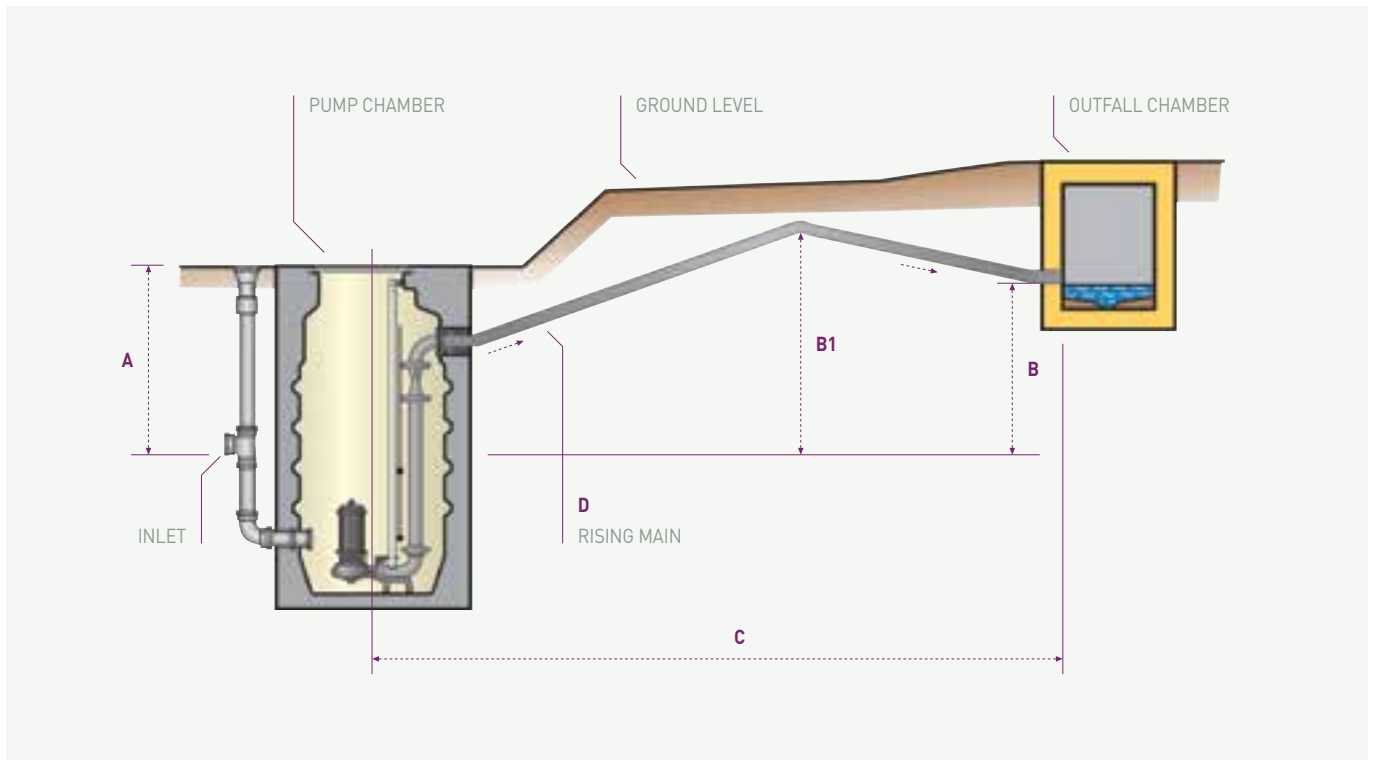
TYPE OF SYSTEM REQUIRED	
DIRECT SYSTEM (FIG 1) <input type="checkbox"/>	
INDIRECT SYSTEM (FIG 2) <input type="checkbox"/>	

YOUR CONTACT DETAILS	
COMPANY NAME	
NAME	
JOB TITLE	
ADDRESS	
POSTCODE	
TELEPHONE	
FAX	
E-MAIL	

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PUMPING STATION SELECTION QUESTIONNAIRE

TYPICAL DUAL PUMP PACKAGE PUMPING STATION



PUMPING STATIONS

Good pumping system selection is critical to ensure that our customers enjoy optimum life and performance from their pumping station.

The selection process for a pumping system is complex and our trained engineers, with the aid of the latest computer systems are able to look at the best options for your specific application.

Some several hundred calculations are made for each selection to ensure that the pumping system selected has the optimum efficiency, reliability and compliances.

The following questionnaire will help us make the best selection.



SITE DATA QUESTIONNAIRE

SITE DATA QUESTIONNAIRE (FOR USE WITH ADOPTABLE AND NON-ADOPTABLE SYSTEMS).

TO ENABLE US TO SELECT THE CORRECT EQUIPMENT FOR YOUR SCHEME, PLEASE COMPLETE THIS SHORT QUESTIONNAIRE, AND SEND IT TO US. WE WILL SEND OUR QUOTATION BY RETURN.

A*	Depth from ground level to inlet invert	mm
B*	Difference in level between inlet level and discharge into outfall chamber	mm
B1*	Highest point of rising main (if higher than discharge of rising main)	mm
C*	Total pipework run from pump chamber to outfall chamber	m
D	Rising main internal diameter (we can advise if required)	mm
D1	Rising main material	
E*	Fluid to be pumped	
	SEWAGE <input type="checkbox"/> / DRAINAGE <input type="checkbox"/> / STORM WATER <input type="checkbox"/>	
	OTHER <input type="checkbox"/> (PLEASE SPECIFY):	
	INFLOW VOLUME <input type="text"/> l/s	SURFACE AREA TO BE COLLECTED <input type="text"/> m ²
F	Pumping capacity required	l/s
	or; Max number of occupants	
	or; Number / type of property	
G*	Electrical power supply available (400V 3Ph required if adoptable station)	
	230V <input type="checkbox"/> / 400V 3Ph <input type="checkbox"/>	
H	Kiosk for control panel required ('yes' if adoptable station)	
	YES <input type="checkbox"/> / NO <input type="checkbox"/>	
	If 'yes', will the electricity meters be housed in kiosk? ('Yes' if adoptable station)	
	YES <input type="checkbox"/> / NO <input type="checkbox"/>	
I	Fluid storage period required	hrs
	REQUIRED CHAMBER VOLUME (IF KNOWN)	ltrs

YOUR SITE DATA

J	Access covers loading ('vehicle not highway' if adoptable station)
	PEDESTRIAN <input type="checkbox"/> / VEHICLE NOT HIGHWAY <input type="checkbox"/> / ROAD GOING HIGHWAY RATED <input type="checkbox"/>
K	Telemetry monitoring ('yes' if adoptable station)
	YES <input type="checkbox"/> / NO <input type="checkbox"/> / IF 'YES', LANDLINE <input type="checkbox"/> / MOBILE PHONE TECHNOLOGY <input type="checkbox"/>
L*	Will the pumping station be adopted?
	YES <input type="checkbox"/> / NO <input type="checkbox"/>
M	If 'yes', who is the adopting authority?
N	Service contract required?
	YES <input type="checkbox"/> / NO <input type="checkbox"/>
	Other information

YOUR CONTACT DETAILS

COMPANY NAME
NAME
JOB TITLE
ADDRESS
POSTCODE
TELEPHONE
FAX
E-MAIL

*Essential information.

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ACCESSORIES

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HOSE / FITTINGS

SIZE	MEDIUM DUTY LAYFLAT HOSE		SUCTION-DELIVERY HOSE		FEMALE BRASS HOSETAIL (BSP THREAD)	MALE BRASS HOSETAIL (BSP THREAD)	SUCTION STRAINER (STEEL PLATED)	HOSE BANDS (ZINC PLATED)
	PRODUCT REFERENCE PRICE PER m	WORKING PRESSURE metres / head	PRODUCT REFERENCE PRICE PER m	WORKING PRESSURE metres / head				
								
1/2"	-	-	-	-	VU/BFHT14 £3	VU/BMHT14 £3.50	-	-
3/4"	-	-	-	-	VU/BFHT20 £4.25	VU/BMHT20 £5	-	-
1"	HU/25LF £2	30	HU/25PNR £3	50	VU/BFHT25 £5.50	VU/BMHT25 £6	FHU/25STRAINER £13	HU/HOSEBAND-1 £3
1 1/4"	HU/32LF £2.10	30	HU/32PNR £3.90	50	VU/BFHT32 £11	VU/BMHT32 £12	FHU/32STRAINER £14	HU/HOSEBAND-1.25 £3
1 1/2"	HU/40LF £2	40	HU/40PNR £4.50	50	VU/BFHT40 £15	VU/BMHT40 £18	FHU/40STRAINER £15	HU/HOSEBAND-1.5 £3
2"	HU/50LF £2	40	HU/50PNR £6.50	50	VU/BFHT50 £24	VU/BMHT50 £27	FHU/50STRAINER £16	HU/HOSEBAND-2 £3.40
2 1/2"	HU/65LF P.O.A.	40	HU/65PNR £8.90	50	VU/BFHT65 £45	VU/BMHT65 £45	FHU/65STRAINER £22	-
3"	HU/80LF £3.60	40	HU/80PNR £12.50	30	VU/BFHT80 £50	VU/BMHT80 £50	FHU/80STRAINER £22	HU/HOSEBAND-3 £5.60
4"	HU/100LF £3.60	40	HU/100PNR £19	30	VU/BFHT100 £105	VU/BMHT100 £105	FHU/100STRAINER £57	HU/HOSEBAND-4 £6.30
6"	HU/150LF £8.80	40	HU/150PNR £30	30	-	-	FHU/150STRAINER £120	HU/HOSEBAND-6 £21
8"	HU/200LF £5	40	-	-	-	-	-	-

HOSE COUPLINGS

SIZE	MALE	LEVER RING	FEMALE	O-RING	COMPLETE SET	FLANGED MALE NP16	FLANGED FEMALE NP16	MALE COUPLING BSP THREAD	FEMALE COUPLING BSP THREAD
	A	B	C	D	A/B/C/D	E	F	G	H
2"	HU/MHC50-GALV £14	HU/LR50 £18	HU/FHC50-GALV £16	HU/OR50 £3	HU/HC50-COMP £38	HU/FMHC50 £105	HU/FFHC50 £85	HU/MHC50 £49	HU/FHC50 £37
3"	HU/MHC80-GALV £40	HU/LR80 £29	HU/FHC80-GALV £29	HU/OR80 £5	HU/HC80-COMP £58	HU/FMHC80 £130	HU/FFHC80- PN16 £135	HU/MHC80 £95	HU/FHC80 £50
4"	HU/MHC100-GALV £45	HU/LR100 £46	HU/FHC100-GALV £46	HU/OR100 £10	HU/HC100-COMP £98	HU/FMHC100 £250	HU/FFHC100 £160	HU/MHC100 £115	HU/FHC100 £74
6"	HU/MHC150-GALV £68	HU/LR150 £90	HU/FHC150-GALV £90	HU/OR150 £20	HU/HC150-COMP £180	HU/FMHC150 £430	HU/FFHC150- PN16 £250	HU/MHC150 £210	HU/FHC150 £135
8"	HU/MHC200-GALV £250	HU/LR200 £180	HU/FHC200-GALV £180	HU/OR200 £25	HU/HC200-COMP £340	HU/FMHC200 £570	HU/FFHC200 £480	HU/MHC200 £300	HU/FHC200 £210

LIGHT DUTY HOSE COUPLING		
1"	HU/QRHC/ABS-1	£2.50
1 1/4"	HU/QRHC/ABS-1.25	£3
1 1/2"	HU/QRHC/ABS-1.5	£3.50
2"	HU/QRHC/ABS-2	£4
3"	HU/QRHC/ABS-3	£5
4"	HU/QRHC/ABS-4	£6.50

LIGHT DUTY ALUMINIUM HOSE COUPLING		
1"	HU/QRHC/ALU-1	£3.50
1 1/4"	HU/QRHC/ALU-1.25	£4
1 1/2"	HU/QRHC/ALU-1.5	£5
2"	HU/QRHC/ALU-2	£6
3"	HU/QRHC/ALU-3	£7
4"	HU/QRHC/ALU-4	£8.50

DISCHARGE BENDS

Universal flanged discharge bends come complete with male BSP threaded connection to allow for various discharge configurations. Supplied with fixing bolts and EPDM gasket.

All bends discharge with BSP male connection.



DISCHARGE BENDS

PUMP WITH DISCHARGE BEND

MODEL / CODE	DESCRIPTION	PRICE £
PTS MODELS		
A4/12417	80mm PTS DISCHARGE BEND	65
A4/12418	100mm PTS DISCHARGE BEND	95
GRN, DGO, MAI, SMI, DGN, MAN, DGP, SMP MODELS		
A4/12414	50mm ZENIT DISCHARGE BEND	45
A4/12415	80mm ZENIT DISCHARGE BEND	65
DGN, MAN, DGP, SMP MODELS		
A4/12416	100mm ZENIT DISCHARGE BEND	95
T-T305, T-T505, T-T510, T-T1008 & T-T1409 MODELS		
A4/12419	80mm T-T DISCHARGE BEND	65
A4/12420	100mm T-T DISCHARGE BEND	95
U, B, BZ, UZ, C MODELS		
A4/12421	50mm TSURUMI DISCHARGE BEND	45
A4/12422	80mm TSURUMI DISCHARGE BEND	65

AUTO-COUPLING SETS

DUCKFOOT

The auto-coupling is fixed to the bottom of the pump chamber and allows the pump to be raised and lowered without emptying the chamber, making repairs and maintenance of the pump much easier and more cost-effective.

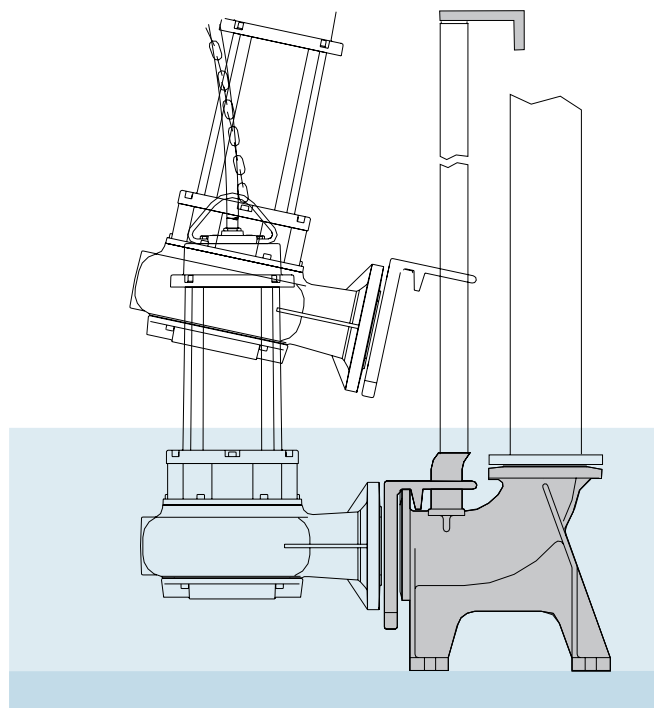
The mobile section, an integral part of the pump, descends on the guide-rails connected to the fixed part of the device and at the top of the chamber, until it self-locates in the correct operating position.

APPLICATIONS

- ALL SUBMERSIBLE PUMPING SYSTEMS IN CONFINED SPACE AREAS

FEATURES

- EASY TO LIFT PUMP DURING CLEANING / MAINTENANCE
- ROBUST CONSTRUCTION



AUTO-COUPLING SET

TYPE	SIZE	WEIGHT kg	CODE	PRICE £
DN 50	2" / 50mm	4.5	PZS/50-A/COUP	150
DN 80	3" / 80mm	26	PZS/80-A/COUP	230
DN 100	4" / 100mm	29.5	PZS/0404#032330	270
DN 150	6" / 150mm / 8" / 200mm	116	PZS/150-A/COUP	960
DN 200	8" / 200mm / 10" / 250mm	151	PZS/200-A/COUP	1350
DN 250	10" / 250mm / 12" / 300mm	186	PZS/250-A/COUP	2200
DN 300	12" / 300mm / 14" / 350mm	285	PZS/300-A/COUP	2700

Please note, other size couplings are available on request.



Please also see our other pump accessories or telephone our Sales Team for further information.

FLUSH VALVE

Fitted on the pump body within a lifting station, the Flush Valve produces a strong, targetable jet every time the pump is restarted. Capable of removing sediment that can build-up and stop the system, this valve is automatic and adjustable.

This type of revolutionary valve applies the 'Venturi' principle. Valve closure can be timed by acting on a transfer regulator fitted between two chambers and the closing time can be adjusted between 30 and 120 seconds.

APPLICATIONS

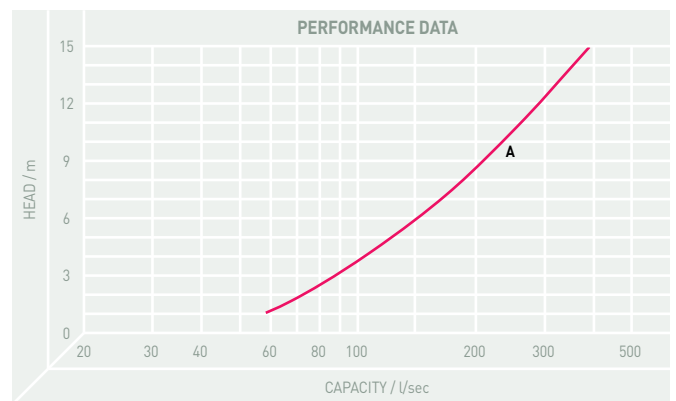
- PUMPING STATIONS & SUMPS
- STORM-WATER PUMPING STATIONS

FEATURES

- FLANGED SUCTION INLET 1 1/2"
- CAST IRON BODY FINISHED IN ECOLOGICAL EPOXY VINYL
- HYDRAULIC OPERATION
- DURABLE DESIGN
- FULLY REPAIRABLE
- DURATION OF MIXING 30 - 120 SECONDS



FLUSH VALVE



TYPE	SIZE	WEIGHT kg	CODE	PRICE £
FLUSH VALVE	/ A	16	PZS/FLUSH	1120

Speak to our Sales office for pump selection to suit the flush valve.



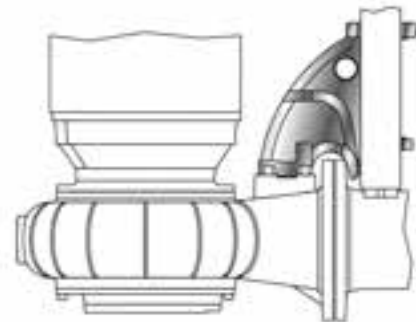
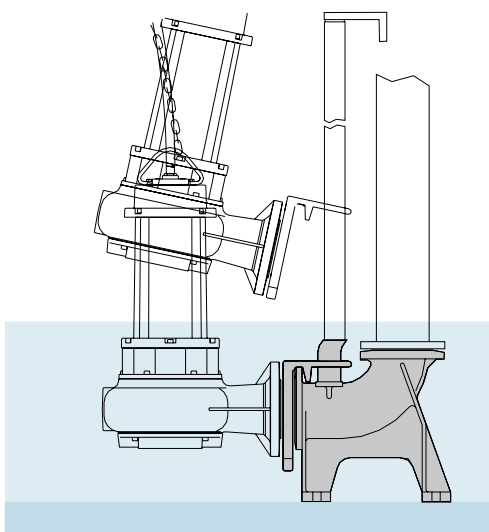
UNIVERSAL PUMP HOOKS

WILLFIT

For use when fitting submersible pumps to universal duckfoot designs. Manufactured in heavy-duty cast iron and made as an economical alternative to refitting existing pumping stations.



UNIVERSAL PUMP HOOK



UNIVERSAL PUMP HOOK*

PRODUCT DESCRIPTION	WEIGHT kg	CODE	PRICE £
50mm ADAPTOR HOOK TO SUIT 3/4" GUIDERAIL	2	PZS/50-P-HOOKNEW	70
80mm ADAPTOR HOOK TO SUIT 1 1/2" GUIDERAIL	8	PZS/80-WILLFIT	150
100mm ADAPTOR HOOK TO SUIT 1 1/2" GUIDERAIL	10	PZS/100-WILLFIT	190
150mm ADAPTOR HOOK TO SUIT 2" GUIDERAIL	19	PZS/150-WILLFIT	240
200mm ADAPTOR HOOK TO SUIT 2" GUIDERAIL	23	PZS/200-WILLFI	320
250mm ADAPTOR HOOK TO SUIT 2" GUIDERAIL	30	PZS/250-WILLFIT	400
*150-300mm+ ADAPTOR HOOK TO SUIT 3" GUIDERAIL	19	PZS/150/3-WILLFIT	480



Please also see our other pump accessories or telephone our Sales Team for further information.

LIFTING EQUIPMENT

Lifting chains are available in both galvanised steel and stainless steel with lifting rings at 1 metre intervals. Complete range available in galvanised and stainless steel. All our chains are certified to 500kg. High weight capacity available on request.



GALVANISED STEEL LIFTING CHAINS

STAINLESS STEEL LIFTING CHAINS

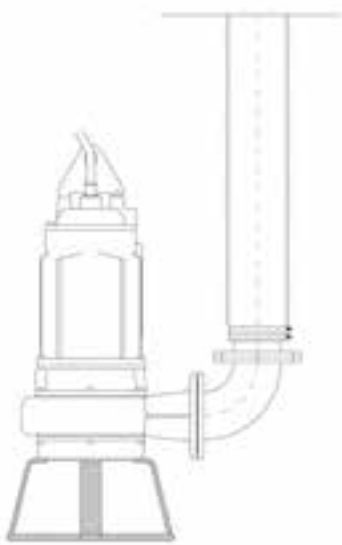
PRODUCT DESCRIPTION	WEIGHT kg	CODE	PRICE £
MILD STEEL GALVANISED LIFTING CHAIN	500	WU/CHAIN500	12.50 PER METRE
STAINLESS STEEL LIFTING CHAIN	500	WU/CHAIN500/SS	P.O.A.
MILD STEEL D SHACKLE	500	WU/D500MSG	P.O.A.
STAINLESS STEEL D SHACKLE	500	WU/D500ST/ST	P.O.A.

Please also see our other pump accessories or telephone our Sales Team for further information.

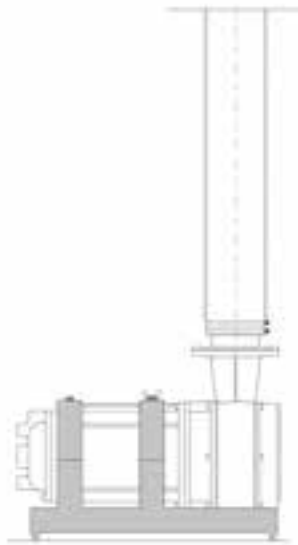


PUMP STANDS

The stands are designed to allow the pump to operate correctly within a sump, when an auto-coupling system cannot be used.



VERTICAL PUMP STAND



HORIZONTAL PUMP STAND



GRN

PUMP BASE STAND	WEIGHT kg	CODE	PRICE £
FOR VERTICAL MOUNTING OF PUMP			
E-FLOW & V-FLOW	6.4	PBS/E100-0012/A	90
T-T1008 – T-T1409	10.8	A3/10747	100
T-T305, T-T505 & T-T510	1.5	PES/TT505-STAND	40
DRN, DGI, DGN, GRN, GRP, APN, APP, MAN, GRF, GRN AND APF RANGES	3.3	PZS/9024.006	60
APN, GRN, DRN, DGN, MAN, DRF RANGES	14.2	PZS/9024.007	110
SMN, SBN, SBP RANGES	43.5	PZS/9024.009	550
SMP RANGE	33.5	PZS/22.979	320
DGO RANGE	2.2	PZS/9024.010	45
B, BZ, C RANGES (5.5kW +)	6.8	PTS/023-288-18	90
PTS 80	3.8	PCRS/TSV80	80
PTS 100	5.4	PCRS/TSO100-V	90
PTS 150	12	PCRS/TSO150-V	110
FOR HORIZONTAL MOUNTING OF PUMP			
PTS 80	7.4	PCRS/TSO80	130
PTS 100	10.9	PCRS/TSO100-H	150
PTS 150	18	PCRS/TSO150-H	180



Please call our Sales Team for further information about pump accessories.



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T-T Controls®

CONTROL SYSTEMS

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CONTROLS INDEX

PRODUCT	APPLICATIONS									PAGE
	FOOD PROCESS	CLEAN WATER	SCHOOL/HOSPITAL	HOTEL/NURSING HOME	QUARRY/MINES	SEWAGE & TREATMENT WORKS	AGRICULTURE	ENVIRONMENTAL	IRRIGATION	
FLOAT SWITCHES	✓	✓	✓	✓	✓	✓	✓	✓	✓	04
PUMPPAL	✓	✓	✓	✓	✓	✓	✓	✓	✓	05
ALERT	✓	✓	✓	✓	✓	✓	✓	✓	✓	06
RAINCYCLE PANEL	✗	✓	✓	✓	✗	✗	✓	✓	✓	07
STANDARD MOTOR STARTERS	✓	✓	✓	✓	✓	✓	✓	✓	✓	09
STANDARD DOL / ASD PANELS	✓	✓	✓	✓	✓	✓	✓	✓	✓	10 - 11
MICROPANEL	✓	✓	✓	✓	✗	✓	✓	✓	✓	08
EARLYBIRD RANGE	✓	✓	✓	✓	✗	✓	✓	✓	✓	12
ALARM-TEL	✓	✓	✓	✓	✗	✓	✓	✓	✓	13
TEXT-TEL SERIES	✓	✓	✓	✓	✗	✓	✓	✓	✓	14 - 15
VASCO	✓	✓	✓	✓	✗	✓	✓	✓	✓	17
KIOSK	✗	✓	✓	✓	✓	✓	✓	✓	✓	18

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INTRODUCTION

T-T Controls is a leader in the design, manufacture, supply and installation of control systems. Specialising in the provision of bespoke panels to meet specific requirements, we also stock a range of standard products including many different types of level control, floats, starter panels, remote monitoring products and kiosks, which are available on short lead times.

We are pleased to introduce some new products such as the **PumpPal** range of small pump controllers and our **Text-Tel Enviro**.

Technical Expertise

With our in-house team of knowledgeable sales staff, professional design engineers, skilled wiremen and thorough test engineers, we ensure products meet your expectations and are designed with clarity and uncomplicated schematics.

Having gained many years of expertise on a vast variety of projects, T-T Controls will comply with your specifications in order to obtain necessary approvals. We are able to offer guidance from the enquiry stage, support during installation and commissioning, through to service after completion, ensuring the control system achieves all its desired requirements.

We also specialise in the provision of pumping schemes, with our bespoke control systems compliant with Transport For London (TFL) standards T003 and T004. We are fully conversant with TFL S1056 Civil Engineering-Pump Drainage Systems specification.

T-T are the nominated framework supplier to TFL / London Underground Ltd. (LUL) for control systems, pumps, valves, off-site service and repair, and all associated equipment.

Quality

We operate to ISO9001 Quality Assurance procedures and quality is paramount from design through to delivery. On completion of assembly, all control panels are subjected to rigorous inspection and test procedures before being released for delivery. A full inspection and test report can be supplied for each control panel manufactured.



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FLOAT SWITCHES

FL01 (HYPALON CABLE)

Low-current model 1mA to 100mA; resistant to oils, chemicals, fats etc. ATEX-approved, suitable for use with intrinsically safe barriers. Single pole double throw micro-switch action, with 3 wire changeover contact. Fixed integral moulded counterweight.

FL02 (HYPALON CABLE)

Standard-current model 100mA to 6A; resistant to oils, chemicals, fats etc. Single pole double throw micro-switch action, with 3 wire changeover contact. Fixed integral moulded counterweight.

FL03 (CPE CABLE)

For general differential switching; polypropylene housing. CPE cable resistant to hydrocarbons, therefore enabling use on sewage applications. Single pole double throw micro-switch with 3 wire changeover contact. Separate counterweight available.

FL06

For use in diesel oil; polypropylene housing; polyurethane cable; differential switching. Single pole double throw micro-switch with 3 wire changeover contact. Separate counterweight available.

FL07

For potable water application, with EPDM WRAS approved cable; differential switching. WRAS APP 3-Core Cable [BS6920 PT2 Sec 2.2]. Single pole double throw micro-switch with 3 wire changeover contact. Separate counterweight available.



FL01



FL02



FL03



FL06



FL07

TYPE	CODE	PRICE £
FL01 10m CABLE	LT/FL01X10	66
FL01 20m CABLE	LT/FL01X20	84
FL02 10m CABLE	LT/FL02X10	63
FL02 20m CABLE	LT/FL02X20	82
FL02 30m CABLE	LT/FL02X30	98
FL02 40m CABLE	LT/FL02X40	116
FL03 0.5m CABLE	LT/FL03X0.5	32
FL03 10m CABLE	LT/FL03X10	35
FL03 20m CABLE	LT/FL03X20	51
FL03 30m CABLE	LT/FL03X30	66
FL03 40m CABLE	LT/FL03X40	81
FL06 10m CABLE	LT/FL06X10	42
FL06 20m CABLE	LT/FL06X20	65
FL07 10m CABLE	LT/FL07X10	52
FL07 20m CABLE	LT/FL07X20	80

COUNTERWEIGHTS		
TYPE	CODE	PRICE £
FOR FL03 / FL06	LT/FL03-CW	4
FOR FL07	LT/FL07-CW	4

COUNTERWEIGHT



Look at our full range of float switches for unusual applications, such as FL06 for use with diesel and FL07 for use with potable water. FL01 & FL02 not suitable for applications with high content of organic waste, eg kitchens.



PumpPal™ / PumpPal Pro™

PumpPal is a range of versatile units offering a wide variety of functions such as 1Ph motor control, dry running indication, protection or water detection to name but a few. Available in dual input voltage 230V/110V, PumpPal incorporates mains healthy indication, the ability to be used for filling or emptying applications whilst controlling a 1Ph 230V motor directly up to 12A FLC. An audible warning alarm is provided with mute facility which can be selected to sound consistently upon alarm or intermittently during operation, particularly suited to basements where under normal circumstances water should not be present. Level detection can be via our LevelPal, float switch or conductivity probes.

PumpPal PRO incorporates all the features of PumpPal with the provision for a 2nd level detector for high level alarm, complete with volt free contacts for remote signalling to BMS.

APPLICATIONS

- SINGLE PHASE PUMP CONTROL (UP TO 8 AMP)
- DRY RUN SENSOR
- FLOOD MONITOR
- FLOW SENSOR
- REMOTE INDICATION
- REMOTE SIGNALLING
- RESIDUE PUMP OPERATION
- SERVER ROOM WATER DETECTION

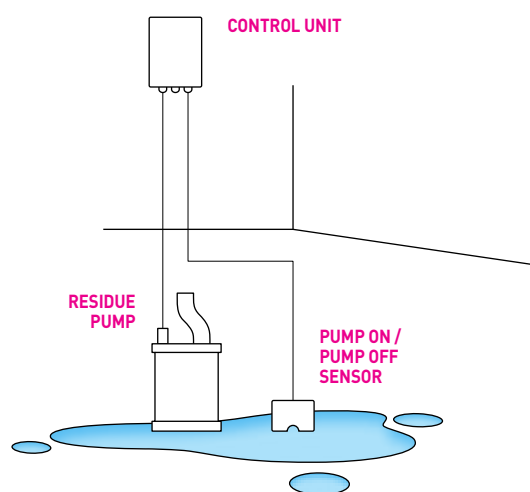
LEVELPAL



PUMPPAL



PUMPPAL PRO



TYPE	VOLTAGE	DIMENSIONS H x W x D mm	WEIGHT kg	CODE	PRICE £
PUMPPAL	230V or 110V/1Ph	130 x 145 x 60	0.6	A4/ES/1723	155
PUMPPAL PRO	230V or 110V/1Ph	130 x 145 x 60	0.6	A4/ES/1724	179
LEVELPAL	-	50 x 70 x 110	1.2	A4/ES/1499	49

FEATURES

- PCB DESIGN
- RUN ON TIMER FOR USE WITH RESIDUE PUMPS
- ADJUSTABLE SENSITIVITY ON CONDUCTIVITY CIRCUIT
- COMPACT WEATHERPROOF ENCLOSURE
- CAN CONTROL SINGLE PHASE MOTORS UP TO 12 AMP FLC

- AUDIBLE ALARM C/W MUTE CONFIGURABLE FOR CONTINUOUS OR INTERMITTENT USE
- LED INDICATION FOR MAINS HEALTHY AND PUMP RUNNING / RELAY ACTIVE
- DUAL VOLTAGE INPUT 230V/110V 1Ph

- VOLT FREE CONTACTS AVAILABLE FOR REMOTE MONITORING ON PumpPal PRO
- 2ND SENSOR E.G. HIGH LEVEL ON PumpPal PRO
- 'TEST' BUTTON FACILITY
- WEATHER-PROOF CONSTRUCTION



*PUDDLEPAL



*Ideal for use with the PuddlePal residue pump for effective water removal to 1mm, utilising the PumpPal and LevelPal. Conversion available to provide alarm indication function, via audible buzzer and mute switch, instead of pump control.

ALERT

Particularly suitable for use as a high or low level warning alarm, the Alert also monitors the status of a volt free contact such as a float, pressure switch, intruder contact etc, and provides visual and audible warning indication. Features include mains power on indicator, a test push button and mute push button along with alarm indication and a warning buzzer. A remote beacon can also be added.

Alert is mains-powered with a battery back-up version available, providing essential operating in the event of mains power failure.

APPLICATIONS

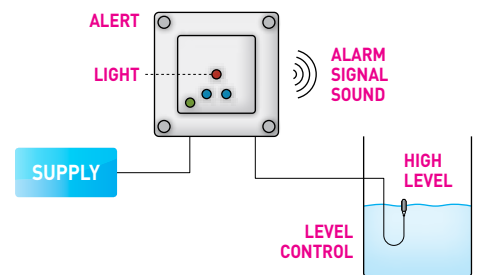
- HIGH / LOW LEVEL ALARM
- INTRUDER ALARM
- HIGH / LOW PRESSURE
- HIGH / LOW TEMPERATURE ALARM

FEATURES

- WEATHERPROOF POLYCARBONATE IP66 ENCLOSURE
- POWER ON INDICATOR
- TEST FUNCTION
- AUDIBLE ALARM COMPLETE WITH MUTE PUSHBUTTON
- LED FLASHING BEACON AVAILABLE TO ORDER SEPARATELY

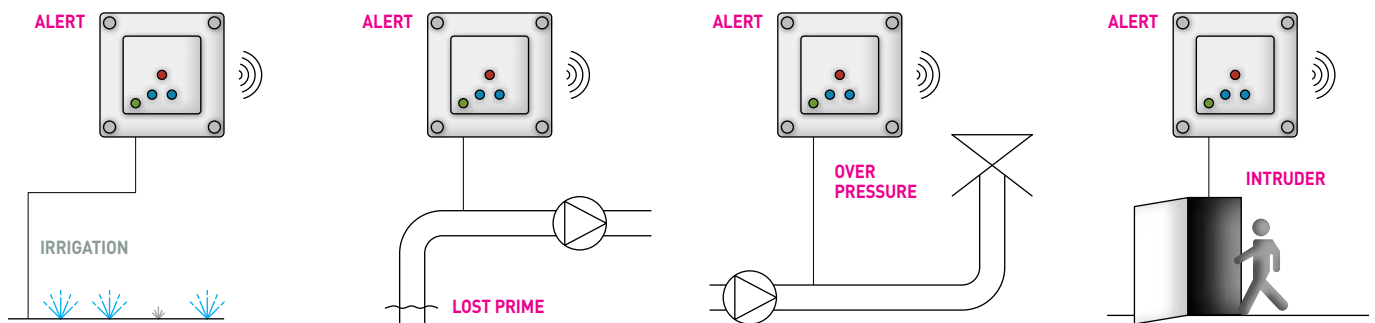


ALERT



TYPE	VOLTAGE	DIMENSIONS H x W x D mm	WEIGHT kg	CODE	PRICE £
ALERT (MAINS POWERED)	230V	100 x 100 x 60	0.32	CAX/ALERT-MAINS	99
ALERT (MAINS WITH BATTERY BACK UP)	230V	100 x 100 x 60	1.00	CAX/ALERT-BATTERY	149
BEACON (LED TYPE FOR ALERT)	12V DC	-	0.3	3096048LM	35

EXAMPLES OF APPLICATIONS



The ALERT should be positioned to avoid very damp atmospheres. The unit should always be supplied from a fused supply, fused at 2A, and should always be earthed correctly.



RainCycle[®] CONTROLLER

water ecology

The T-T RainCycle[®] Controller range of panels offers a simple control solution within water harvesting applications. Designed for use with a 230V/1Ph pump, these units provide storage tank level monitoring as standard with the use of floats to detect and indicate water available, top up required and no water conditions.

Pump operation is typically from a pressure switch or ball cock providing water is available within the storage tank. For systems where harvested water requires topping up with mains water, we have a range of solutions including our additional Top-Up Box consisting of a small and compact enclosure, fully fitted with 3/4" floplast pipework, 24VDC solenoid valve and complete with an AA type air gap complying with EN 13076.

The RainCycle[®] Top-Up version simply offers a 24VDC power supply for external connection to a solenoid valve by others.

The T-T RainCycle[®] Level version is an ideal solution where applications require a more accurate level indication. Operating from a single level transducer and the high & low level floats used as a back-up, the tank level is accurately measured via a 4-20mA signal providing constant level monitoring.

APPLICATIONS

- FULLY COMPATIBLE WITHIN T-T RAINCYCLE PACKAGES FOR GARDEN, DOMESTIC & COMMERCIAL APPLICATIONS
- IRRIGATION SYSTEMS

- OUTDOOR TAPS (NON POTABLE WATER)
- UTILITIES SUCH AS TOILETS, LAUNDRY & CLEANING
- INDUSTRIAL PROCESSES
- CAN BE USED AS A STAND ALONE UNIT



RAINCYCLE[®] CONTROLLER
(TOP-UP & LEVEL VERSION SHOWN)



TOP UP BOX



TRANSDUCER

TYPE	OPTIONAL EXTRAS REQUIRED (X)	VOLTAGE	DIMENSIONS H x W x D mm	CODE	PRICE £
STANDARD*	FLOATS x 2	230V/1Ph	180 x 145 x 75	CAX/RCS	240
	TOP-UP BOX				
	LEVEL TRANSDUCER				
TOP-UP*	FLOATS x 2	230V/1Ph	180 x 145 x 75	CAX/RCT	255
	TOP-UP BOX				
	LEVEL TRANSDUCER				
LEVEL*	FLOATS x 2	230V/1Ph	180 x 145 x 75	CAX/RCL	275
	TOP-UP BOX				
	LEVEL TRANSDUCER				
TOP-UP & LEVEL*	FLOATS x 2	230V/1Ph	180 x 145 x 75	CAX/RCTL	290
	TOP-UP BOX				
	LEVEL TRANSDUCER				
TOP-UP BOX	N/A	24VDC	220 x 150 x 75	-	160
LEVEL TRANSDUCER	N/A	-	-	-	P.O.A.

FEATURES

- COMPACT WEATHERPROOF ENCLOSURE
- PCB DESIGN

- STATUS INDICATORS FOR POWER ON, PUMP RUNNING, WATER AVAILABLE / MAINS WATER TOP-UP VALVE, WATER LOW & NO WATER
- FUNCTIONAL TEST BUTTONS FOR PUMP, SOLENOID & ALARM

- ADDITIONAL LED LEVEL DISPLAY VIA LEVEL TRANSDUCER
- 24VDC SOLENOID SUPPLY
- ADDITIONAL TOP-UP BOX



*Please note, optional extras are not included in the price. Please refer to page 04 for more information about floats. See our RainCycle[®] literature or website for more information.

Note: Transducer offered will be sized to suit tank and cable length required.

MICROPANELS

Micropanels offer the features and functions of a traditional hard wired control panel, but use PCB design allowing the control panel to be 40% smaller, ideal for locations where space is at a premium.

Available as either 400V 3Ph N & E or 230V 1Ph versions, the Micropanel offers fully automatic control of a motor up to 18A full load current with the option of a remote control and indication pad (low voltage) which can be located up to 100m away.

Printed circuit board design is used allowing easy maintenance with the control board being plug-in and therefore can be quickly replaced on site if required.

APPLICATIONS

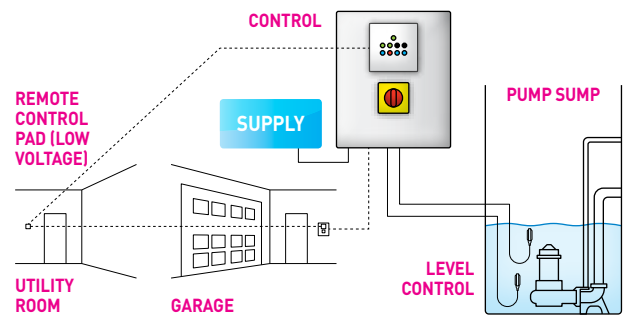
- PUMP OPERATION
- BUILDING MANAGEMENT
- MOTOR CONTROL
- HEATING & VENTILATING

FEATURES

- LOW VOLTAGE CONTROL TO SWITCHING DEVICES
- STATUS / ALARM INDICATION VIA AUDIBLE ALARM (WITH MUTE AND BY LED VISUAL INDICATOR)
- MOTOR OVERLOAD AND OVERHEAT PROTECTION CONNECTIONS
- CONTINUOUS-RUNNING PROTECTION IN MOTOR TEST / HAND OPERATION
- DOOR MOUNTED FASCIA PAD CAN BE REMOTELY LOCATED AT EXTRA COST



MICROPANEL



TYPE	VOLTAGE	AMPS	DIMENSIONS H x W x D mm	WEIGHT kg	CODE	PRICE £
MICROPANEL	230V/1Ph	18	300 x 250 x 200	6.1	A4/ES/1486	405
MICROPANEL	400V/3Ph	18	300 x 250 x 200	6.3	A4/ES/1487	420
REMOTE CONTROL PAD	N/A	N/A	100 x 100 x 50	0.8	A4/ES/1686	105

Optional remote control and indication units can be added easily and economically to maximise control and monitoring. 400V versions require a neutral conductor in the supply.



STANDARD MOTOR STARTERS

Ideally suited for controlling pumps or motors via float switches, our standard motor starter range offers reliable, economic, automatic control with a host of user friendly features.

Single and dual motor versions are available with the dual starter having Duty / Standby or Duty / Assist function with automatic duty pump rotation after each operating cycle.

An inbuilt high level warning alarm is also offered as standard with the facility for a remote option.



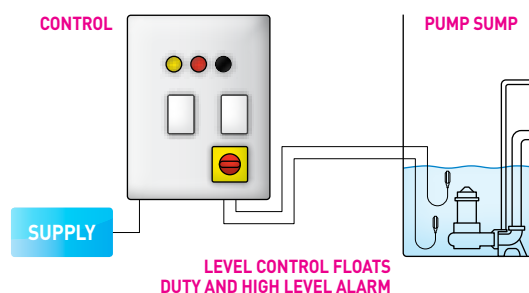
STANDARD MOTOR STARTER

APPLICATIONS

- PUMP OPERATION
- HEATING & VENTILATING SYSTEMS
- BUILDING MANAGEMENT
- MACHINERY

FEATURES

- DOOR-INTERLOCKED ISOLATOR
- LOW-VOLTAGE CONTROL (24V)
- AUDIO-VISUAL HIGH-LEVEL ALARM WITH MUTE
- DUTY CYCLE CHANGEOVER ON DUAL PANELS
- MOTOR OVERLOAD AND OVERHEAT PROTECTION CONNECTIONS



TYPE	VOLTAGE	SINGLE / DUAL	AMPS	DOL	DIMENSIONS H x W x D mm	kW	WEIGHT kg	CODE	PRICE £
S1.5M	230V/1Ph	SINGLE	9	YES	280 x 190 x 150	1.5	3.5	A4/ES/1807	335
S3.0M	230V/1Ph	SINGLE	18	YES	280 x 190 x 150	2.2	3.5	A4/ES/1806	345
S4.0T	400V/3Ph & N	SINGLE	9	YES	280 x 190 x 150	4	3	A4/ES/1878	340
D1.5M	230V/1Ph	DUAL	9	YES	396 x 316 x 170	1.5	6.8	A4/ES/1881	509
D3.0M	230V/1Ph	DUAL	18	YES	396 x 316 x 150	2.2	7.3	A4/ES/1805	539
D4.0T	400V/3Ph & N	DUAL	9	YES	396 x 316 x 170	4	5.6	A4/ES/1879	525

Suitable for use with differential type float switches or pressure switches (FLO3 ideally suited). **400V versions require a neutral conductor in the supply.**



Handy Hint! Available for motors with internal capacitor, or run capacitor(s) may be supplied in starter at extra cost.



Our most popular and versatile range of **Standard DOL / ASD** control panels the Libra range offers extensive choice of single and dual motor control options suitable for 1Ph 230V and 3Ph 400V power supplies.

Available in direct on line, or star-delta starting for larger motors, with various optional extras enabling customisation to suit your requirements, including telemetry monitoring.

All control panels are manufactured at T-T's premises by a team of skilled wire-personnel, with each panel passing rigorous inspection and testing prior to despatch.

FEATURES

- DOOR-INTERLOCKED ISOLATOR
- LOW VOLTAGE CONTROL CIRCUIT
- MOTOR PROTECTION FUSE CARTRIDGES
- CONTACTOR AND THERMAL OVERLOAD RELAY
- HAND-OFF AUTO SELECTOR SWITCHES FOR EACH PUMP (SPRING RETURN IN HAND TO PREVENT DRY RUNNING)
- RUN AND TRIP LED INDICATORS
- THERMOSTATICALLY CONTROLLED ANTI-CONDENSATION HEATER
- DISTRIBUTION TERMINALS
- SUITABLE FOR SINGLE ACTING AND DIFFERENTIAL LEVEL CONTROL / PRESSURE SWITCHES
- DUTY STANDBY OR DUTY ASSIST OPERATION SELECTABLE ON DUAL VERSION
- IF HIGH LEVEL ALARM CIRCUIT IS SELECTED, THIS IS SEPARATELY FUSED ENSURING THAT THE WARNING ALARMS REMAIN OPERATIONAL SHOULD THE CONTROL FUSE PROTECTION BLOW
- FACILITY FOR REMOTE D.C. WARNING DEVICES IS PROVIDED IF HIGH LEVEL CIRCUIT IS SELECTED
- FULLY COMPATIBLE WITH OUR TEXT TEL, ALARM TEL AND EARLYBIRD RANGE OF TELEMTRY AND MONITORING PRODUCTS
- IF USED WITH OUR TEXT TEL RANGE ENABLES REMOTE RESET OF PUMP TRIP CONDITIONS BY PHONE



STANDARD DOL / ASD PANEL



TEXT-TEL

(Have you considered installing gsm telemetry in your panel?
Speak to our team for more information)

ADD TEXT-TEL FOR ECONOMICAL MONITORING VIA GSM FOR ADVANCE WARNING BY MOBILE PHONE TECHNOLOGY

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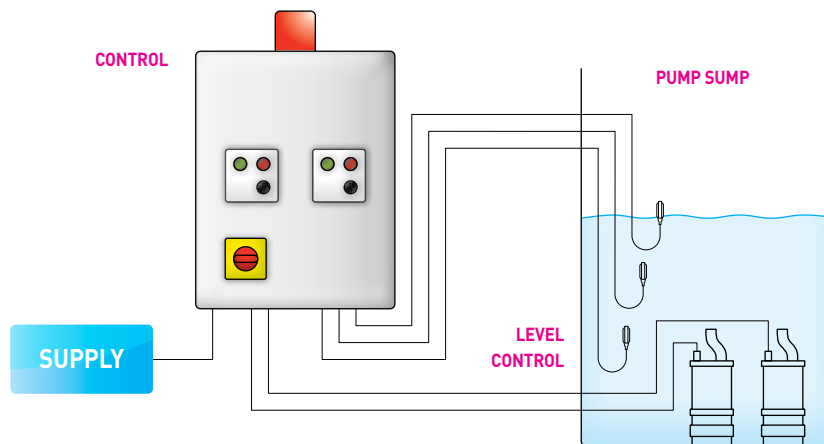


VOLTAGE	SINGLE / DUAL	DOL / ASD	DIMENSIONS H x W x D mm	kW	MAX FLC (A)	WEIGHT kg	CODE	PRICE £
230V/1Ph	SINGLE	DOL	400 x 400 x 250 O/A	2.2	18	11.4	A4/ES/1918	365
400V/3Ph	SINGLE	DOL	400 x 400 x 250 O/A	7.5	18	11.2	A4/ES/1901	369
400V/3Ph	SINGLE	DOL	500 x 400 x 250 O/A	15	32	12	A4/ES/1902	515
400V/3Ph	SINGLE	ASD	500 x 400 x 250 O/A	7.5	18	13	A4/ES/1906	505
400V/3Ph	SINGLE	ASD	500 x 400 x 250 O/A	15	32	13	A4/ES/1907	555
230V/1Ph	DUAL	DOL	500 x 400 x 250 O/A	2.2	18	19	A4/ES/1919	515
400V/3Ph	DUAL	DOL	500 x 400 x 250 O/A	4	9	18.5	A4/ES/1903	525
400V/3Ph	DUAL	DOL	500 x 400 x 250 O/A	7.5	18	18.5	A4/ES/1904	585
400V/3Ph	DUAL	DOL	700 x 500 x 250 O/A	15	32	19	A4/ES/1905	690
400V/3Ph	DUAL	ASD	700 x 500 x 250 O/A	7.5	18	21	A4/ES/1908	840
400V/3Ph	DUAL	ASD	700 x 500 x 250 O/A	15	32	21	A4/ES/1909	905

APPLICATIONS

- PUMP CONTROL
- MOTOR APPLICATIONS
- HEATING & VENTILATION
- BUILDING MANAGEMENT
- MACHINERY CONTROL

OPTIONAL EXTRAS	PRICE £
HIGH LEVEL BEACON	54
HIGH LEVEL BEACON AND BUZZER	84
DOOR MOUNTED OVERLOAD RESET	22 / MOTOR
AMMETER AND HOURS RUN METER	48 / MOTOR
VOLT FREE CONTACTS PUMP TRIP & HIGH LEVEL	21 / MOTOR
FUSED SUPPLY FOR REMOTE MONITORING PRODUCTS	23



kW rating for each product is maximum. Float switches can be supplied separately, for use with panels.

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EARLYBIRD RANGE

Designed to give battery back-up indication of 3 no alarm conditions for manned applications, our Early Bird range offers both audible and visual warnings of a change of state, such as pump trip, high level, low level etc, with mains failure indication also built into the units as standard.

The Earlybird Plus units have the added feature of a flashing beacon which can be remotely located, along with a larger battery pack to keep this operational under mains failure conditions. The 3Ph 400V versions are ideally suited for monitoring 3Ph power supplies where phase loss is common, which can cause costly motor damage.

APPLICATIONS

- ECONOMICAL MONITORING OF UN-ATTENDED EQUIPMENT, E.G CELLARS, BOILER / PLANT ROOMS, CARETAKERS OFFICES, ETC

FEATURES

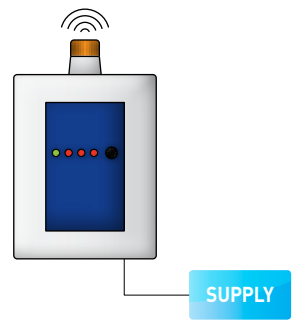
- BATTERY BACK-UP FOR ESSENTIAL WARNING EVEN AFTER POWER LOSS (APPROX. 10 HOURS) (FULL RECHARGE TIME APPROX. 16 HOURS)
- TEST BUTTON PROVIDED TO SIMULATE AN ALARM CONDITION
- AUDIBLE ALARM BUZZER WITH MUTE ON/OFF CONTROL
- PVC ENCLOSURE
- FASCIA MOUNTED LED'S FOR MAINS HEALTHY AND ALARM 1, ALARM 2 AND ALARM 3 CONDITIONS



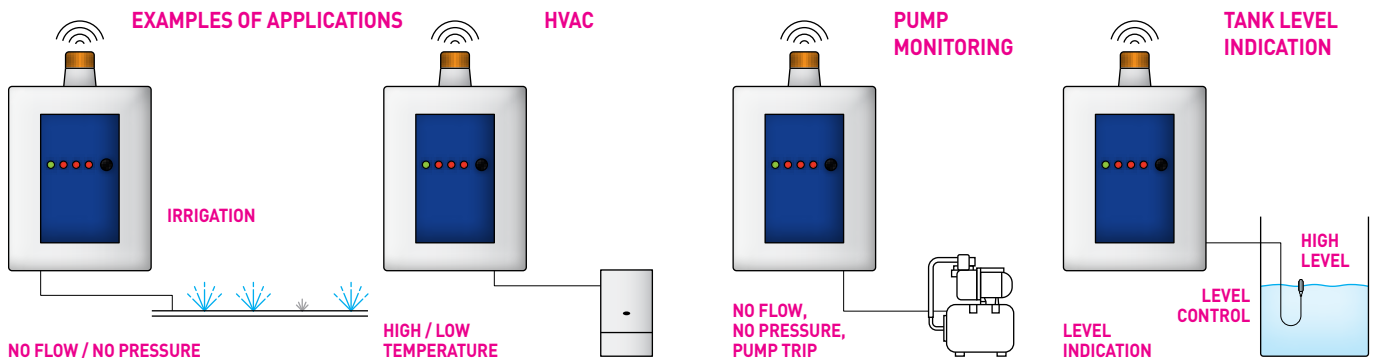
EARLYBIRD



EARLYBIRD PLUS



TYPE	VOLTAGE	DIMENSIONS H x W x D mm	WEIGHT kg	CODE	PRICE £
EARLYBIRD	230V/1Ph	378 x 280 x 131	3.8	A4/E/2335	380
EARLYBIRD	400V/3Ph	378 x 280 x 131	4	A4/E/2544	440
EARLYBIRD PLUS	230V/1Ph	378 x 280 x 131	4.3	A4/E/2334	452
EARLYBIRD PLUS	400V/3Ph	378 x 280 x 131	4.5	A4/E/2545	515



ALARM-TEL

Offering peace of mind monitoring of remote equipment, the Alarm-Tel has the ability to monitor and report changes on three alarm conditions, plus mains failure using standard PSTN phone line.

Upon detection of a fault the unit will telephone up 3 different recipients with a user recorded message indicating which alarm condition has occurred. Battery back-up within the unit enables operation even under mains fail conditions.

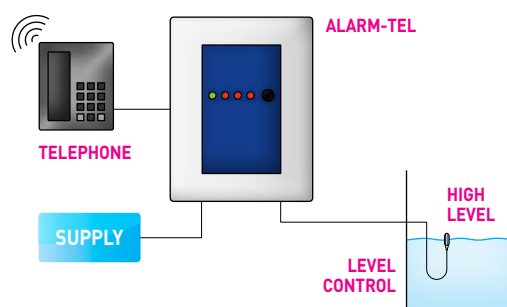
APPLICATIONS

- PUMPING STATIONS
- BOOSTER PUMP MONITORING
- HIGH/LOW LEVEL ALARM
- LOSS OF PRIME OF PUMP
- NO FLOW WARNING
- OVER TEMPERATURE ALARM
- INTRUDER ALARM

FEATURES

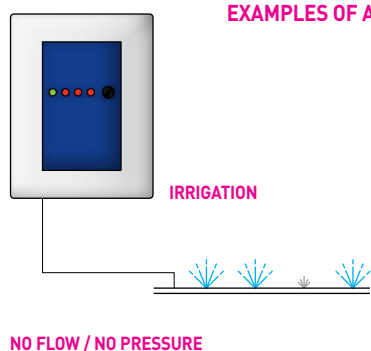
- TEST BUTTON PROVIDED TO SIMULATE AN ALARM CONDITION
- PVC ENCLOSURE
- FASCIA MOUNTED LED'S
- BATTERY BACK-UP FOR ESSENTIAL WARNING EVEN ON POWER LOSS (APPROX. 24 HOURS)
- FULL RECHARGE TIME APPROX. 16 HOURS
- BAPT APPROVED: S/1100/3/P/502920
- USER FRIENDLY SPEECH RECORDER FOR MESSAGE PLAYBACK

ALARM-TEL

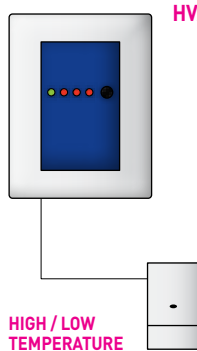


TYPE	VOLTAGE	DIMENSIONS H x W x D mm	WEIGHT kg	CODE	PRICE £
ALARM-TEL	230V/1Ph	280 x 190 x 131	2.9	A4/E/2330	510
ALARM-TEL	400V/3Ph	380 x 280 x 131	5	A4/E/2920	630
LIGHTNING ARRESTOR	-	-	-	198-0452/239-731	135
BT SOCKET	-	-	-	CPR/K422+K2160	25

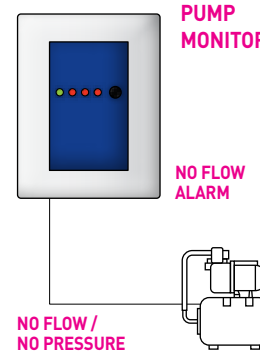
EXAMPLES OF APPLICATIONS



HVAC



PUMP MONITORING



Landline required for this product. If no telephone line is available, look at our Text-Tel range.

TEXT-TEL SERIES

Text-Tel is a revolutionary range of monitoring devices all offering peace of mind, reporting any failures or condition changes on remote equipment, equivalent to having an engineer observing on site.

All models use GSM technology to report any changes via SMS text to either mobile phones or text enabled land lines and have 24 hour battery back-up. Two way communication is employed, enabling plant to be remotely reset via phone when used with a compatible control panel.

Our Text-Tel range is made up of the following products, all fully programmable via mobile phone, notifying up to 5 recipients. Some models have an adjustable time delay on inputs ideally suited to prevent nuisance alarms on storm surges or floats hunting and some can send monthly texts and make a chargeable voice call in order to maintain 'healthy' pay as you go sim cards.

Text-Tel Micro - din rail housed unit making it ideally suited for retro fitting into existing control systems as well as new builds. LCD and LED status inputs provide interaction whilst programming and the unit monitors power failure plus 3 other user defined conditions.

Text-Tel Junior - having LCD and LED status inputs as well as monitoring 3 defined conditions, the Text-Tel Junior is a stand alone weather-proof version, IP66 requiring a 230V 1Ph power supply.

Text-Tel Senior - this unit offers multiple monitoring of additional features, up to a maximum of 8 inputs, making it ideal for applications requiring seal leak, over temperature, etc notification. This unit is also available in a 3Ph 400V version with phase failure alarm.

Text-Tel Enviro - a new addition to our range, operated from a DC power source, therefore, particularly suitable for use with PV energy sources, wind turbines etc. Offering supply healthy indication and monitoring a single alarm condition such as high / low level status, the unit is ideally suited to reservoir monitoring, borehole level, etc.



TEXT-TEL MICRO



TEXT-TEL JUNIOR / ENVIRO



TEXT-TEL SENIOR

APPLICATIONS

Monitoring of:

- PUMP STATIONS
- WATER SUPPLY BOOSTER SYSTEMS
- REMOTE HIRED PLANT

- INTRUDER ALARMS

- MARINE EQUIPMENT
- FLOOD PREVENTION

Suitable for any location with mobile phone coverage.

FEATURES

- EASY TO INSTALL
- SIMPLE TO OPERATE
- LOW RUNNING COSTS
- ALLOWS TWO-WAY COMMUNICATION FROM YOUR MOBILE PHONE
- NO DELAYS OCCURRED IN WAITING FOR A LANDLINE TO BE INSTALLED

- NO ADDITIONAL CHARGES ASSOCIATED WITH LANDLINE USE AND RENTAL
- ABILITY TO RESET REMOTELY BY PHONE WHEN USED WITH A COMPATIBLE CONTROL PANEL
- NETWORKS AVAILABLE (PAYG OR CONTRACT): ORANGE; T-MOBILE; VODAFONE; O2; VIRGIN

Handy Hint! Ideal for remote applications where no phone line is available. Is your site temporary? Why not use this unit and relocate once finished!

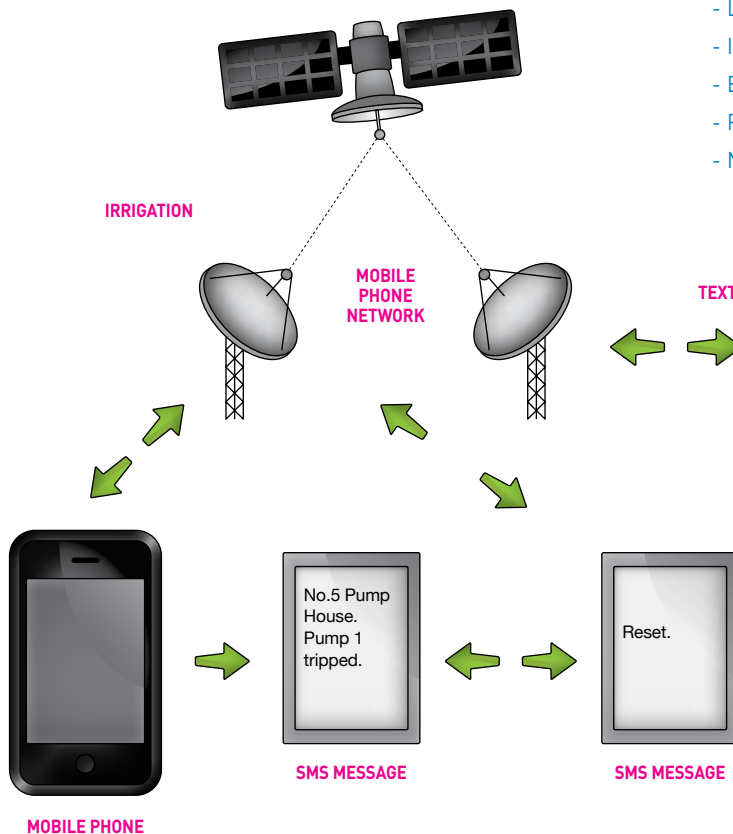


TEXT-TEL SERIES

MODEL	SUPPLY MONITORING	ADDITIONAL INPUT SIGNALS	OUTPUT NO. TEL. NO.	ADJUSTABLE INPUT DELAY	REMOTE RESET	VOLTAGE	MONTHLY TEXT / CALL TO KEEP SIM ACTIVE	MOUNTING	DIMENSIONS H x W x D mm	WEIGHT kg	CODE	PRICE £
TEXT-TEL MICRO	YES	3	5	YES	YES	24VAC	YES	DIN RAIL	100 x 105 x 60	0.8	A4/ES/1668	595
TEXT-TEL JUNIOR	YES	3	5	YES	YES	230V/1Ph	YES	WALL / FREE MOUNTING	160 x 190 x 135	1.23	A4/ES/1617	699
TEXT-TEL SENIOR	YES	7	20	NO	YES	230V/1Ph	NO	WALL / FREE MOUNTING	380 x 280 x 130	3.9	A4/ES/1562	1585
TEXT-TEL SENIOR	YES	7	20	NO	YES	400V/3Ph	NO	WALL / FREE MOUNTING	380 x 280 x 130	3.6	A4/ES/1572	1645
TEXT-TEL ENVIRO	YES	1	5	YES	YES	24VDC	YES	WALL / FREE MOUNTING	160 x 190 x 135	1.23	A4/ES/1882	699

Please speak to our Sales Team about our range of High Gain Aerials.

TYPICAL TEXT-TEL OPERATION



OTHER POTENTIAL MONITORING CONDITIONS

- HIGH LEVEL LIQUID
- LOW PRESSURE / HIGH PRESSURE
- INTRUDER ALERT
- ENGINEER ON SITE
- PUMP FAILURE
- NO FLOW



Handy Hint! Ideal for remote applications where no phone line is available. Is your site temporary? Why not use this unit and relocate once finished!

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WHEN RELIABILITY COUNTS

Bespoke Control Systems

T-T Controls[®]

T-T Controls are specialists in designing, manufacturing and installing control systems for a wide selection of applications, varying in size and complexity.

We pride ourselves on our reputation for high standards, quality and client satisfaction.

We offer:

- * In-house sales and design team equipped with the latest technology
- * Skilled and qualified wire personnel and installation teams
- * Rigorous inspection and testing
- * Complementary range of standard products



www.ttpumps.com

VASCO

Vasco is a purpose built range of variable speed drives, designed to control and protect pumping systems based on changing the motor frequency and pump speed. Vasco units are extremely compact, can be connected to any pump on the market and will control the operation of the pump to maintain a constant desired pump performance (e.g. pressure, flow, temperature etc). The easy to configure settings allow the Vasco to determine the most effective duty point for the pumps and system. Body construction is entirely aluminium, making the units solid, lightweight and easily cooled. Protected to IP55, the Vasco units can be installed in virtually any location including humid and dusty environments.



VASCO 209/214/409

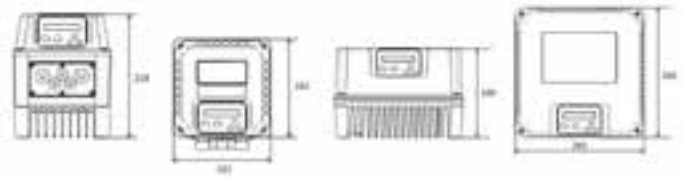
VASCO 414/418/425

APPLICATIONS

- WATER BOOSTING PUMP SYSTEMS
- PROCESS SYSTEMS
- RETROFIT TO IMPROVE OPERATING EFFICIENCY
- CONSTANT SUPPLY, CONSTANT PRESSURE
- WHERE VARIABLE SPEED MEETS DEMAND AND EFFICIENCY

FEATURES

- ENERGY AND COST SAVING
- SIMPLE TO INSTALL
- INCREASED PUMP LIFE
- GREATER RELIABILITY
- MOTOR PROTECTION AND MONITORING SUCH AS OVERLOAD AND DRY RUNNING
- SOFT START, SOFT STOP FUNCTION
- IMPROVED PUMP AND SYSTEM EFFICIENCY
- MOTOR MOUNTING AND WALL MOUNTING KITS AVAILABLE



TYPE	VOLTAGE INPUT	VOLTAGE OUTPUT	RATING AMPS	TYPICAL POWER P2 (kW)	CODE	PRICE £
VASCO 209 1PH	1 x 230	1 x 230	9	1.1kW	PNA/V209	595
		3 x 230	7	1.5kW		
VASCO 214 1PH	1 x 230	1 x 230	9	1.1kW	PNA/V214	850
		3 x 230	11	3.0kW		
VASCO 409 3PH	3 x 400	3 x 400	9	4kW	PNA/V409	1450
VASCO 414 3PH	3 x 400	3 x 400	14	5.5kW	PNA/V414	2095
VASCO 418 3PH	3 x 400	3 x 400	18	7.5kW	PNA/V418	2455
VASCO 425 3PH	3 x 400	3 x 400	25	11kW	PNA/V425	2545
MOTOR MOUNT KIT 209/214/409	N/A	N/A	N/A	N/A	PNA/MOTORKIT 1	28
MOTOR MOUNT KIT 414/418/425	N/A	N/A	N/A	N/A	PNA/MOTORKIT 2	56
WALL MOUNT KIT 209/214	N/A	N/A	N/A	N/A	PNA/WALLKIT 1	54
WALL MOUNT KIT 409	N/A	N/A	N/A	N/A	PNA/WALLKIT 2	54
WALL MOUNT KIT 414/418/425	N/A	N/A	N/A	N/A	PNA/WALLKIT 3	62
0-16BAR PRESS.SENSOR 4-20MA	N/A	N/A	N/A	N/A	PNA/PRESS.SENSOR	94



See our clean water literature.

KIOSKS

Accommodation for your control panel can be provided from an extensive range of kiosks and other enclosures, in a variety of materials including steel with protective coatings, stainless steel, polycarbonate and GRP for outdoor and indoor applications and harsh environments. They can provide space as required for electricity meters and special items such as telemetry units, generator connections, and distribution equipment.

APPLICATIONS

- CONTROL EQUIPMENT
 - PUMP SETS
 - COMPRESSORS
 - TELEMETRY OUTSTATIONS
 - COMPUTER TERMINALS
 - LIGHTING SYSTEM
- PLYWOOD BACKBOARDS FOR EQUIPMENT MOUNTING
 - CAN BE SUPPLIED C/W HEATING AND LIGHTING REQUIREMENTS



KIOSK RANGE

FEATURES

- ROBUST CONSTRUCTION
- OUTDOOR OR INDOOR USE
- BESPOKE DESIGN AND MANUFACTURE AVAILABLE
- WEATHERPROOF



	TYPE	DIMENSIONS H x W x D mm	ARRANGEMENT	PLYWOOD BACKBOARD	GENERATOR FLAP	CODE	PRICE £
01	GRP	1250 x 750 x 400	SINGLE DOOR	INCLUDED	AVAILABLE	CUU/1250HX750WGRP	520
02	GRP	1250 x 1250 x 400	DOUBLE DOOR	INCLUDED	AVAILABLE	CUU/1250HX1250WGRP	1054
03	GRP	1750 x 2000 x 500	DOUBLE DOOR	INCLUDED	AVAILABLE	CUU/1750HX2000WGRP	1850
04	MILD STEEL	1250 x 750 x 400	SINGLE DOOR	INCLUDED	AVAILABLE	CUU/1250HX750WMS	460
04	MILD STEEL	1250 x 1250 x 400	DOUBLE DOOR	INCLUDED	AVAILABLE	CUU/1250HX1250WMS	750
05	MILD STEEL	1500 x 2000 x 500	DOUBLE DOOR	INCLUDED	AVAILABLE	CUU/1500HX2000WX500MS	P.O.A.
06	MILD STEEL	2000 x 2000 x 500	DOUBLE DOOR	INCLUDED	AVAILABLE	CUU/2000HX2000WMS	P.O.A.

Handy hint! Look out for special offers on bulk buy kiosks.

In addition to standard products, bespoke kiosks can be designed and manufactured to clients' individual specifications.



HOW TO DO IT

APPROXIMATE FULL LOAD CURRENT AND PROTECTIVE DEVICES FOR 3Ph MOTORS RATED AT 400V						
WATT kW	AMPS FULL LOAD CURRENT IN AMPS (average only)	FUSE PROTECTION (A)				MCB PROTECTION MCB TYPE 'D'
		DOL (MOTOR RATED)		Y-DELTA (MOTOR RATED)		
		(gG)	(aM)	(gG)	(aM)	
0.25	0.7	4	2	2		2
0.37	1.1					
0.55	1.5	6	4	4		
0.75	1.9					
1.1	2.5	10	6	6		
1.5	3.4					
1.8	4	16		10		
2.2	4.9		8			
3	6.5	20			8	
3.7	7.5		10	16	10	
4	8.4	25				
5.5	11	32	16		16	
6.3	13			20		
7.5	14	36	20		20	
9	17		25	25	25	
10	19	40				
11	21	50	25	32	25	
13	25					
15	28	63	40	36	32	

APPROXIMATE FULL LOAD CURRENT AND PROTECTIVE DEVICES FOR 1Ph MOTORS RATED AT 230V					
WATT kW	AMPS FULL LOAD CURRENT IN AMPS (average only)	FUSE PROTECTION (A)		MCB PROTECTION MCB TYPE 'D'	
		DOL			
		(gG)	(aM)		
0.12	0.95	2		2	
0.18	1.5	4			
0.25	1.7	6			
0.37	3	10	6	4	
0.55	4.5	16		6	
0.75	5.5	16	8	10	
1.1	8.5	20	10	16	
1.5	10.5	25	16	20	
2.2	15.5	32	25	25	

Important note: kW ratings shown are a guide only. Fuses should be sized to the motors full load current (FLC).

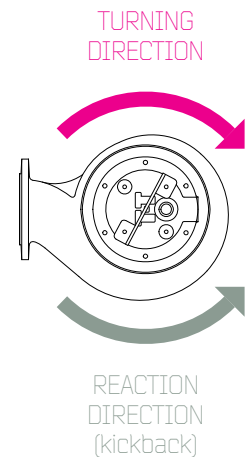
CHECK FOR CORRECT ROTATION

SUBMERSIBLE PUMPS

The arrow on the top of the pump casing indicates the kick of the pump. When the pump is lying on its side the impeller should go anticlockwise when viewed from the bottom.

Also the pump FLC reading should be observed, as well as pump flow performance in accordance with the data sheet for the product.

NOTE: Some models can vary, please check the manual or contact the Sales office.



PANEL SELECTION CHART



STANDARD STARTER PANEL (PG09)

- FL06
- FL03 (PG04)
- FL07



DOL / ASD STANDARD PANEL (PG10)

- FL01
- FL02
- FL03 (PG04)
- FL06
- FL07

OPTIONS (SEE PAGE 11)

1. HIGH LEVEL BEACON
2. HIGH LEVEL BEACON & BUZZER
3. DOOR MOUNTED OVERLOAD RESET
4. AMMETER AND HOURS RUN METER
5. VOLT FREE CONTACTS PUMP TRIP AND HIGH LEVEL
6. FUSED SUPPLY FOR REMOTE MONITORING PRODUCTS

TELEMETRY

- TEXT-TEL MICRO
- TEXT-TEL JUNIOR
- TEXT-TEL SENIOR
- & OTHERS (SEE PAGES 12 - 14)

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WATERWORKS
VALVES
VALVES
WATERWORKS

01

02

03

04

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12

SUMMARISED VALVE SELECTION GUIDE

MEDIA	VALVE FUNCTION	VALVE TYPE	SECTION PAGE NUMBER
 CLEAN WATER	ON / OFF	BALL	34
		BUTTERFLY	13 / 14
		CONTROL	*
		WEDGE GATE	04 / 05 / 33
	MODULATING	BALL	34
		BUTTERFLY	13 / 14
		CONTROL	*
		NEEDLE	*
	NON-RETURN	AXIAL SPRING CHECK	20 / 35
		NON-SLAM (RECOIL) CHECK	17
		NOZZLE CHECK	*
		SLANTED DISC CHECK	*
		SWING CHECK (REFLUX)	15 / 16 / 37
		TILTING DISC CHECK	*
TWIN PLATE CHECK		19	
WAFER CHECK	*		
 WASTE WATER	ON / OFF	KNIFE GATE	*
		PENSTOCK	*
		PINCH	*
		PLUG	*
		WEDGE GATE	06 / 07 / 08 / 09 / 10 / 11 / 33
	MODULATING	KNIFE GATE	*
		PENSTOCK	*
		PINCH	*
		PLUG	*
	NON-RETURN	ANTI-FLOOD VALVE	22
		BALL CHECK	18
		NON-SLAM (RECOIL) CHECK	17
		SWING CHECK (REFLUX)	15 / 16 / 37
	 AIR/GAS	ON / OFF	BALL
BUTTERFLY			13 / 14
WEDGE GATE			*
MODULATING		BALL	34
		BUTTERFLY	13 / 14
NON-RETURN		MEMBRANE CHECK	*

INTRODUCTION

Aquaflow are professionals in the design, manufacture and distribution of engineered waterworks valves and associated ancillary equipment to the water, process and allied industries and possess over 25 years' experience.

We can offer the supply of a single valve through to a complete project package with actuated valves and bespoke operating equipment, whilst ensuring the most cost effective and reliable solution.

This catalogue welcomes the introduction of some new products:

- **Aquavault** - resilient seat wedge gate valves for pipeline isolation
- **Metal seat gate valves** DN350 to DN1200 with by pass
- **Saferise®** double orifice air valves with integral surge anticipation mechanism
- **Pressure reducing valves**
- **Equilibrium ball float valves**
- **Aquabrake®** double orifice air valve in stainless steel
- **Aquabrake®** double orifice air valve with rapid fill prevention
- **Reversing spur and bevel gear boxes**

ACTUATION SERVICES

Aquaflow has extensive experience in the expert selection, mounting, configuration and functional verification of a wide range of actuators. All actuated valves are fully electrically and mechanically tested prior to dispatch to ensure correct operation. A 'fast-track' actuated valve service is available upon request.



ENGINEERING SERVICES

Our modern fully equipped workshops, including full test control systems, welding facilities, paint shop, machinery and over-head 3 tonne lifting crane are complemented by extensively trained and knowledgeable mechanical engineers and coded welders.

Combining our skills and facilities we are also able to supply a comprehensive selection of associated engineered equipment with many items being adapted to suit your exact requirements, including:

- **EN545 & EN598 DUCTILE IRON PIPE FITTINGS AND FABRICATIONS**
- **EXTENSION SPINDLES**
- **FLOOR PEDESTALS**
- **JOINTING MATERIALS**
- **MOUNTING KITS**
- **OUTREACH SUPPORT BRACKETS (ADJUSTABLE)**
- **PIPE COUPLINGS AND ADAPTERS**
- **VALVE OPEN/CLOSE STATUS SENSING OPTIONS**
- **T KEYS**

PRODUCTS

- **Air Valves**
- **Brass Valves**
- **Check Valves**
- **Control Valves**
- **Flap Valves**
- **Isolation Valves**
- **Valves accessories**
- **Pressure reducing valves**
- **Actuation**

BENEFITS

- **Unique product designs support by third party approvals**
- **Technical advice from knowledgeable and approachable engineers**
- **Cost effective, customised and single sourced packages**
- **Fully equipped machine assembly shop**
- **In-house calibrated test facilities**
- **Supporting documentation, certification and CAD drawings**
- **Extensive stock of products offering same-day delivery to your site**
- **Comprehensive after-sales support**

Resilient seat wedge gate valve used for pipeline isolation. This valve is suitable for potable water duties and buried service.

TECHNICAL SPECIFICATION

- STANDARD: EN1074-1&2: 2000
BS 5163 PT 1&2: 2004 &
EN1171: 2002 (CAT. 4)
- RANGE: DN50 - DN300
- FLANGES & DRILLINGS:
BS EN 1092-2:1987 TABLE 9
(PN16)
- FACE TO FACE DIMENSIONS:
BS EN 558-1: 1986 TABLE 3,
BASIC SERIES 3
- MAXIMUM WORKING
PRESSURE: 16 BAR
- HYDROSTATIC PRESSURE TESTS:
SEAT - 1.1 x PN (17.6 BAR)
BODY - 1.5 x PN (24.0 BAR)
- TEMPERATURE RANGE:
-10°C TO 70°C, INSULATE AT 0°C
AND BELOW
- COATING: BLUE FUSION BONDED
EPOXY (>300µ AND WRAS LISTED)

FEATURES

- UNIQUE LIGHTWEIGHT DUCTILE
IRON DESIGN
- WEDGE GUIDES AND ROLLED
STEM THREAD FOR REDUCED
OPERATING FRICTION
- INTEGRAL CAPTIVE WEDGE
NUT FOR OPTIMAL LIFESPAN
- WAX FILLED FASTENERS FOR
CORROSION RESISTANCE
- STEM SEALS REPLACEABLE
UNDER PRESSURE
- BODY GASKET LOCATES WITHIN
RECESS TO PREVENT BEEN
BLOWN OUT
- CLOCKWISE CLOSING SPINDLE
AS STANDARD
- 100% FULL BORE AND BODY
BOSSSES
- LOW MAINTENANCE DESIGN
SUITABLE FOR BURIED SERVICE

OPTIONS

- HANDWHEEL OR STEM CAP
OPERATOR
- CHAINWHEEL
- POSITION INDICATOR WITH
OPTIONAL SWITCHES
- ANTI-CLOCKWISE CLOSING
SPINDLE
- BYPASS ASSEMBLY
- ALTERNATIVE FLANGE
DRILLINGS



**RESILIENT SEAT
GATE VALVE**



VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN50	12	AQ/RS50	82
DN65	15	AQ/RS65	100
DN80	20	AQ/RS80	100
DN100	24	AQ/RS100	117
DN125	41	AQ/RS125	172
DN150	48	AQ/RS150	188
DN200	60	AQ/RS200	290
DN250	90	AQ/RS250	448
DN300	130	AQ/RS300	604

DN: Nominal Diameter Size.



Resilient seat wedge gate valve with ISO interface used for pipeline isolation, prepared for actuation. This valve is suitable for potable water duties and buried service.

TECHNICAL SPECIFICATION

- STANDARD: EN1074-1&2: 2000
BS 5163 PT 1&2: 2004 &
EN1171: 2002 (CAT. 4) & ISO5210
- RANGE: DN80 - DN300
- FLANGES & DRILLINGS:
BS EN 1092-2:1987 TABLE 9
(PN16)
- FACE TO FACE DIMENSIONS:
BS EN 558-1: 1986 TABLE 3,
BASIC SERIES 3
- MAXIMUM WORKING
PRESSURE: 16 BAR
- HYDROSTATIC PRESSURE TESTS:
SEAT - 1.1 x PN (17.6 BAR)
BODY - 1.5 x PN (24.0 BAR)
- TEMPERATURE RANGE:
-10°C TO 70°C, INSULATE AT 0°C
AND BELOW
- COATING: BLUE FUSION BONDED
EPOXY (>300µ AND WRAS LISTED)

FEATURES

- UNIQUE LIGHTWEIGHT DUCTILE
IRON DESIGN
- ISO 5210 MOUNTING PAD WITH
PRECISION MACHINED KEYED
SPINDLE
- WEDGE GUIDES AND ROLLED
STEM THREAD FOR REDUCED
OPERTING FRICTION
- INTEGRAL CAPTIVE WEDGE
NUT FOR OPTIMAL LIFESPAN
- WAX FILLED FASTENERS FOR
CORROSION RESISTANCE
- STEM SEALS REPLACEABLE
UNDER PRESSURE
- BODY GASKET LOCATES
WITHIN RECESS TO PREVENT
BLOW OUT
- CLOCKWISE CLOSING SPINDLE
AS STANDARD

- 100% FULL BORE AND BODY
BOSSSES
- LOW MAINTENANCE DESIGN
SUITABLE FOR BURIED
SERVICE

OPTIONS

- ELECTRIC ACTUATOR
- BEVEL OR SPUR GEARBOX
- ANTI-CLOCKWISE CLOSING
SPINDLE
- BYPASS ASSEMBLY
- ALTERNATIVE FLANGE
DRILLINGS



RESILIENT SEAT GATE VALVE



RESILIENT SEAT GATE VALVE WITH ACTUATOR

VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN80	22	AQ/RS80 + AQ/ISO F10	260
DN100	26	AQ/RS100 + AQ/ISO F10	277
DN125	43	AQ/RS125 + AQ/ISO F10	302
DN150	50	AQ/RS150 + AQ/ISO F10	318
DN200	65	AQ/RS200 + AQ/ISO F14/200	420
DN250	95	AQ/RS250 + AQ/ISO F14/250	578
DN300	135	AQ/RS300 + AQ/ISO F14/300	760

DN: Nominal Diameter Size.



Please contact our Sales office for alternative flange drillings, anti-clockwise closing, larger sizes, actuator or gearbox options.



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METAL SEAT GATE VALVE DN50 - DN300

Metal seat wedge gate valve used for pipeline isolation. Suitable for potable water, wastewater and sewage duties and buried service.

TECHNICAL SPECIFICATION

- STANDARD: BS 5163 PT 1&2: 2004, EN1171: 2002 & EN1074 PT 1&2:2000
- RANGE: DN50 - DN300
- FLANGES & DRILLINGS: BS EN 1092-2: 1987 TABLE 9 (PN16)
- FACE TO FACE DIMENSIONS: BS EN 558-1: 1986 TABLE 3, BASIC SERIES 3
- MAXIMUM WORKING PRESSURE: 16 BAR
- HYDROSTATIC PRESSURE TESTS: SEAT - 1.1 x PN (17.6BAR) BODY - 1.5 x PN (24.0BAR)
- TEMPERATURE RANGE: -10°C TO 70°C, INSULATE AT 0°C AND BELOW
- COATING: BLUE FUSION BONDED EPOXY (WRAS LISTED)

FEATURES

- UNIQUE LIGHTWEIGHT DUCTILE IRON DESIGN
- PRECISION MACHINED COPPER ALLOY SEAT RINGS
- DURABLE FUSION BONDED EPOXY COATED
- STEM SEALS REPLACEABLE UNDER PRESSURE
- 100% FULL BORE
- CLOCKWISE CLOSING STEM AS STANDARD
- BODY BOSSES & DRAIN PLUG AS STANDARD
- LOW MAINTENANCE DESIGN SUITABLE FOR BURIED SERVICE



OPTIONS

- HANDWHEEL OR STEM CAP OPERATOR
- CHAINWHEEL
- POSITION INDICATOR WITH OPTIONAL SWITCHES
- ANTI-CLOCKWISE CLOSING SPINDLE
- BYPASS ASSEMBLY
- ALTERNATIVE FLANGE DRILLINGS



**METAL SEAT GATE VALVE
(SHOWN WITH CAP)**



**METAL SEAT GATE VALVE (SHOWN WITH
POSITION INDICATOR AND HANDWHEEL)**

VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN50	23	AQ/GATE50	169
DN65*	24	AQ/GATE65	169
DN80	26	AQ/GATE80	169
DN100	31	AQ/GATE100	200
DN125*	48	AQ/GATE125	336
DN150	58	AQ/GATE150	340
DN200*	87	AQ/GATE200	604
DN250*	131	AQ/GATE250	775
DN300*	186	AQ/GATE300	1050

DN: Nominal Diameter Size. *This model is not WRAS approved.

METAL SEAT GATE VALVE DN50 - DN300 WITH ISO INTERFACE

Metal seat wedge gate valve with mounting flange used for pipeline isolation. This valve is suitable for water, wastewater and sewage applications.

TECHNICAL SPECIFICATION

- STANDARD: BS 5163 PT 1&2: 2004 & EN1024 PT 1&2:2000
- RANGE: DN80 - DN300
- FLANGES & DRILLINGS: BS EN 1092-2: 1987 TABLE 9 (PN16)
- FACE TO FACE DIMENSIONS: BS EN 558-1: 1986 TABLE 3, BASIC SERIES 3
- MAXIMUM WORKING PRESSURE: 16 BAR
- HYDROSTATIC PRESSURE TESTS: SEAT - 1.1 x PN (17.6 BAR) BODY - 1.5 x PN (24.0 BAR)
- TEMPERATURE RANGE: -10°C TO 70°C, INSULATE AT 0°C AND BELOW
- COATING: BLUE FUSION BONDED EPOXY (WRAS LISTED)

FEATURES

- UNIQUE LIGHTWEIGHT DUCTILE IRON DESIGN
- DURABLE FUSION BONDED EPOXY COATED
- PRECISION MACHINED / KEYED SPINDLE
- ISO5210 MOUNTING FLANGE
- 100% FULL BORE
- CLOCKWISE CLOSING STEM AS STANDARD
- BODY BOSSES & DRAIN PLUG AS STANDARD
- ROBUST LOW MAINTENANCE DESIGN
- PRECISION MACHINED COPPER ALLOY SEAT RINGS



OPTIONS

- ELECTRIC ACTUATOR
- BEVEL OR SPUR GEARBOX
- ANTI-CLOCKWISE CLOSING SPINDLE
- BYPASS ASSEMBLY
- ALTERNATIVE FLANGE DRILLINGS



METAL SEAT GATE VALVE WITH ISO PAD (WITH BEVEL GEARBOX)



ACTUATOR



METAL SEAT GATE VALVE WITH ISO PAD (BARESHAFT)

VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN80	24	AQ/GATE80 + AQ/ISOF10	333
DN100	29	AQ/GATE100 + AQ/ISOF10	361
DN125*	45	AQ/GATE125 + AQ/ISOF10	487
DN150	55	AQ/GATE150 + AQ/ISOF10	491
DN200*	82	AQ/GATE200 + AQ/ISOF14/200	734
DN250*	125	AQ/GATE250 + AQ/ISOF14/250	893
DN300*	177	AQ/GATE300 + AQ/ISOF14/300	1148

DN: Nominal Diameter Size. *This model is not WRAS approved.



Please note this is supplied bare shaft. Contact our Sales office for alternative flange drillings, anti-clockwise closing and larger sizes.

DESIGNED IN THE UK

METAL SEAT GATE VALVE

DN350 - DN1200

Metal seat wedge gate valve with mounting flange used for pipeline isolation. Suitable for water, wastewater and sewage applications.

TECHNICAL SPECIFICATION

- STANDARD: BS 5163 PT 1&2: 2004 & EN1074 PT 1&2:2000
- RANGE: DN350 - DN1200
- FLANGES & DRILLINGS: BS EN 1092-2: 1987 TABLE 9 (PN16)
- FACE TO FACE DIMENSIONS: BS EN 558-1: 1986 TABLE 3, BASIC SERIES 3
- MAXIMUM WORKING PRESSURE: 16 BAR
- HYDROSTATIC PRESSURE TESTS: SEAT - 1.1 x PN (17.6 BAR) BODY - 1.5 x PN (24.0 BAR)
- TEMPERATURE RANGE: -10°C TO 70°C, INSULATE AT 0°C AND BELOW
- COATING: BLUE FUSION BONDED EPOXY (WRAS LISTED)

FEATURES

- UNIQUE DUCTILE IRON DESIGN
- STEM SEALS REPLACEABLE UNDER PRESSURE
- ISO 5210 MOUNTING FLANGE
- 100% FULL BORE
- CLOCKWISE CLOSING STEM AS STANDARD
- AIR RELEASE AS STANDARD
- LOW MAINTENANCE DESIGN SUITABLE FOR BURIED SERVICE
- HANDWHEEL OR CAP OPERATED STEM
- BEVEL AND SPUR GEARBOXES AVAILABLE



METAL SEAT GATE VALVE (BARESHAFT)



METAL SEAT GATE VALVE (FITTED WITH ACTUATOR)

VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN350	235	AQ/GATE350	2190
DN400	300	AQ/GATE400	2834
DN450	385	AQ/GATE450	3830
DN500	495	AQ/GATE500	4862
DN600	725	AQ/GATE600	7537
DN700	995	AQ/GATE700	P.O.A.
DN800	1340	AQ/GATE800	P.O.A.
DN900	1960	AQ/GATE900	P.O.A.
DN1000	2950	AQ/GATE1000	P.O.A.
DN1200	4200	AQ/GATE1200	P.O.A.

DN: Nominal Diameter Size.

Please contact our Sales office for alternative flange drillings, anti-clockwise closing, larger sizes, by-pass assembly and actuator or gearbox options.



METAL SEAT GATE VALVE DN350 - DN1200 WITH BYPASS

Metal seat wedge gate valve with mounting flange used for pipeline isolation. Suitable for water, wastewater and sewage applications.

TECHNICAL SPECIFICATION

- STANDARD: BS 5163 PT 1&2: 2004 & EN1074 PT 1&2:2000
- RANGE: DN350 - DN1200
- FLANGES & DRILLINGS: BS EN 1092-2: 1987 TABLE 9 (PN16)
- FACE TO FACE DIMENSIONS: BS EN 558-1: 1986 TABLE 1, BASIC SERIES 19
- MAXIMUM WORKING PRESSURE: 16 BAR
- HYDROSTATIC PRESSURE TESTS: SEAT - 1.1 x PN (17.6 BAR) BODY - 1.5 x PN (24.0 BAR)
- TEMPERATURE RANGE: -10°C TO 70°C, INSULATE AT 0°C AND BELOW
- COATING: BLUE FUSION BONDED EPOXY (WRAS LISTED)

FEATURES

- UNIQUE DUCTILE IRON DESIGN
- STEM SEALS REPLACEABLE UNDER PRESSURE
- ISO 5210 MOUNTING FLANGE
- 100% FULL BORE
- CLOCKWISE CLOSING STEM AS STANDARD
- AIR RELEASE AS STANDARD
- LOW MAINTENANCE DESIGN SUITABLE FOR BURIED SERVICE
- HANDWHEEL OR CAP OPERATED STEM
- BEVEL AND SPUR GEARBOXES AVAILABLE



METAL SEAT GATE VALVE WITH BYPASS AND REDUCTION BEVEL GEARBOX

VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN350	332	AQ/GATE350BP	2535
DN400	412	AQ/GATE400BP	3280
DN450	567	AQ/GATE450BP	4465
DN500	707	AQ/GATE500BP	5023
DN600	1041	AQ/GATE600BP	7960
DN700	1341	AQ/GATE700BP	P.O.A.
DN800	1845	AQ/GATE800BP	P.O.A.
DN900	2235	AQ/GATE900BP	P.O.A.
DN1000	3490	AQ/GATE1000BP	P.O.A.
DN1200	5730	AQ/GATE1200BP	P.O.A.

DN: Nominal Diameter Size.



Please contact our Sales office for alternative flange drillings, anti-clockwise closing, larger sizes, actuator or gearbox options.

METAL SEAT GATE VALVE

DN80 - DN300 PN25

Metal seat wedge gate valve used for pipeline isolation. Suitable for potable water, wastewater and sewage duties and buried service.

TECHNICAL SPECIFICATION

- STANDARD: BS 5163 PT 1&2: 2004 & EN1171: 2002
- RANGE: DN80-DN300
- FLANGES & DRILLINGS: BS EN 1092-2: 1987 TABLE 10 (PN25)
- FACE TO FACE DIMENSIONS: BS EN 558-1: 1986 TABLE 3, BASIC SERIES 3
- MAXIMUM WORKING PRESSURE: 25 BAR
- HYDROSTATIC PRESSURE TESTS: SEAT - 1.1 x PN (27.5 BAR)
BODY - 1.5 x PN (36.0 BAR)
- TEMPERATURE RANGE: -10°C TO 70°C, INSULATED AT 0°C AND BELOW
- COATING: BLUE FUSION BONDED EPOXY (WRAS LISTED)

FEATURES

- UNIQUE LIGHTWEIGHT DUCTILE IRON DESIGN
- WRAS LISTED FUSION BONDED EPOXY COATED
- STEM SEALS REPLACEABLE UNDER PRESSURE
- 100% FULL BORE
- CLOCKWISE CLOSING SPINDLE AS STANDARD
- CORROSION RESISTANT CONSTRUCTION
- INTEGRAL FEET TO FACILITATE SAFE STORAGE
- ROBUST LOW MAINTENANCE DESIGN SUITABLE FOR BURIED SERVICE

OPTIONS

- ELECTRIC ACTUATOR
- BEVEL OR SPUR GEARBOX
- HANDWHEEL OR STEM CAP OPERATOR
- CHAINWHEEL
- POSITION INDICATOR WITH OPTIONAL SWITCHES
- ANTI-CLOCKWISE CLOSING SPINDLE
- BYPASS ASSEMBLY
- ALTERNATIVE FLANGE DRILLINGS



METAL SEAT GATE VALVE PN25

VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN80	27	AQ/GATE80/PN25	206
DN100	35	AQ/GATE100/PN25	257
DN150	64	AQ/GATE150/PN25	472
DN200	101	AQ/GATE200/PN25	696
DN250	144	AQ/GATE250/PN25	978
DN300	204	AQ/GATE300/PN25	1352

DN: Nominal Diameter Size.

METAL SEAT GATE VALVE DN80 - DN300 PN25 WITH ISO INTERFACE

Metal seat wedge gate valve used for pipeline isolation. Suitable for potable water, wastewater and sewage duties and buried service.

TECHNICAL SPECIFICATION

- STANDARD: BS 5163 PT 1&2: 2004 & EN1171: 2002
- RANGE: DN80-DN300
- FLANGES & DRILLINGS: BS EN 1092-2: 1987 TABLE 10 (PN25)
- FACE TO FACE DIMENSIONS: BS EN 558-1: 1986 TABLE 3, BASIC SERIES 3
- MAXIMUM WORKING PRESSURE: 25 BAR
- HYDROSTATIC PRESSURE TESTS: SEAT - 1.1 x PN (27.5 BAR)
BODY - 1.5 x PN (36.0 BAR)
- TEMPERATURE RANGE: -10°C TO 70°C, INSULATED AT 0°C AND BELOW
- COATING: BLUE FUSION BONDED EPOXY (WRAS LISTED)

FEATURES

- UNIQUE LIGHTWEIGHT DUCTILE IRON DESIGN
- WRAS LISTED FUSION BONDED EPOXY COATED
- STEM SEALS REPLACEABLE UNDER PRESSURE
- 100% FULL BORE
- CLOCKWISE CLOSING SPINDLE AS STANDARD
- CORROSION RESISTANT CONSTRUCTION
- INTEGRAL FEET TO FACILITATE SAFE STORAGE
- ROBUST LOW MAINTENANCE DESIGN SUITABLE FOR BURIED SERVICE

OPTIONS

- ELECTRIC ACTUATOR
- BEVEL OR SPUR GEARBOX
- HANDWHEEL OR STEM CAP OPERATOR
- CHAINWHEEL
- POSITION INDICATOR WITH OPTIONAL SWITCHES
- ANTI-CLOCKWISE CLOSING SPINDLE
- BYPASS ASSEMBLY
- ALTERNATIVE FLANGE DRILLINGS



**METAL SEAT GATE VALVE PN25
BARE SHAFT**



**METAL SEAT GATE VALVE PN25
WITH BEVEL GEAR BOX**

VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN80	25	AQ/GATE80/PN25+AQ/ISOF10	368
DN100	33	AQ/GATE100/PN25+AQ/ISOF10	415
DN150	62	AQ/GATE150/PN25+AQ/ISOF10	613
DN200	99	AQ/GATE200/PN25+AQ/ISOF14/200	820
DN250	142	AQ/GATE250/PN25+AQ/ISOF14/250	1080
DN300	202	AQ/GATE300/PN25+AQ/ISOF14/300	1426

DN: Nominal Diameter Size.



Please contact our Sales office for alternative flange drillings, anti-clockwise closing, larger sizes, actuator or gearbox options.

DESIGNED IN THE UK

LIQUIDS UNDER CONTROL

Pumps

Offer a wide range of specialised products with over 1000 pump models for a diverse range of applications.

Controls

Specialists in bespoke projects and the supply of standard control products and systems.

Valves

An established supplier of waterworks valves, and related products and services.

Service

Offer a comprehensive after-sales maintenance service, with emergency repair support.

Pumping Stations

Comprehensive Pumping Stations from initial design through to completion.



www.ttpumps.com

WAFER BUTTERFLY VALVE



Wafer pattern butterfly valve ideal for pipeline isolation and modulation. Suitable for clean water applications up to 90°C.

MATERIALS

- BODY: CAST IRON EN-GJL-400
- DISC: STAINLESS STEEL
AISI 316
- LINER: EPDM
- STEM: STAINLESS STEEL
AISI 316
- BEARING: PTFE
- COATING: FUSION BONDED
EPOXY RESIN

FEATURES

- EN593
- REPLACEABLE LINER
- VARIOUS DISC MATERIALS
- VARIOUS LINER MATERIALS
- INSTALL BETWEEN
PN6/10/16/25 FLANGES
- FACE TO FACE ACCORDING TO
EN558 SERIES 20
- WRAS APPROVED
- LARGER SIZES ON REQUEST
- NOTCHED LEVER, HANDWHEEL
GEARBOX OR ACTUATED
OPERATION



WAFER BUTTERFLY VALVE

VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN40	2	AQ/BVW40	67
DN50	3	AQ/BVW50	73
DN65	3	AQ/BVW65	85
DN80	3	AQ/BVW80	94
DN100	5	AQ/BVW100	116
DN150	7	AQ/BVW150	220
DN200	14	AQ/BVW200	416
DN250	20	AQ/BVW250	720
DN300	30	AQ/BVW300	1100

DN: Nominal Diameter Size.



Please contact our Sales office for alternative liners, disc materials, operators and larger sizes.

LUGGED / TAPPED BUTTERFLY VALVE



Lugged and tapped pattern butterfly valve ideal for pipeline isolation and modulation. Suitable for clean water applications up to 90°C.

MATERIALS

- BODY: CAST IRON EN-GJL-400
- DISC: STAINLESS STEEL AISI 316
- LINER: EPDM
- STEM: STAINLESS STEEL AISI 316
- BEARING: PTFE
- COATING: FUSION BONDED EPOXY RESIN

FEATURES

- EN593
- REPLACEABLE LINER
- VARIOUS DISC MATERIALS
- VARIOUS LINER MATERIALS
- INSTALL BETWEEN PN6/10/16/25 FLANGES
- FACE TO FACE ACCORDING TO EN558 SERIES 20
- WRAS APPROVED
- SUITABLE FOR END OF LINE DUTY
- LARGER SIZES ON REQUEST
- NOTCHED LEVER, HANDWHEEL GEARBOX OR ACTUATED OPERATION



LUGGED / TAPPED BUTTERFLY VALVE WITH IRON DISC

VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN40	3	AQ/BVLT40	138
DN50	4	AQ/BVLT50	85
DN65	4	AQ/BVLT65	100
DN80	5	AQ/BVLT80	114
DN100	7	AQ/BVLT100	155
DN150	11	AQ/BVLT150	240
DN200	22	AQ/BVLT200	535
DN250	28	AQ/BVLT250	870
DN300	38	AQ/BVLT300	1406

DN: Nominal Diameter Size.

Please contact our Sales office for alternative liners, disc materials, operators and larger sizes.



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METAL SEAT SWING CHECK VALVE DN50 - DN300



Metal seat swing check valve used to prevent reverse flow. Suitable for potable water, wastewater and sewage applications.

TECHNICAL SPECIFICATION

- STANDARD: BS EN1074 PT 3: 2000, BS EN12234: 2001 & BS 5153: 1974
- RANGE: DN50 - DN300
- FLANGES & DRILLINGS: BS EN 1092-2:1987 TABLE 9 (PN16)
- FACE TO FACE DIMENSIONS: BS EN 558-1:1986 TABLE 10, BASIC SERIES 10
- MAXIMUM WORKING PRESSURE: 16 BAR
- HYDROSTATIC PRESSURE TESTS: SEAT- 1.1 x PN (17.6 BAR) BODY-1.5 x PN (24.0 BAR)
- TEMPERATURE RANGE: -10°C TO 70°C, INSULATE AT 0°C AND BELOW
- COATING: BLUE FUSION BONDED EPOXY (WRAS LISTED)

FEATURES

- UNIQUE LIGHTWEIGHT DUCTILE IRON DESIGN
- DURABLE FUSION BONDED EPOXY COATED
- SUITABLE FOR HORIZONTAL & VERTICAL INSTALLATION
- POSITIVE HEXAGONAL DRIVE BETWEEN SHAFT & HANGER
- OPTIONAL EXTERNAL LEVER ARM & WEIGHT ASSEMBLY
- DRILLING BOSSES AND 1/2" BSP AIR RELEASE AS STANDARD
- ROBUST LOW MAINTENANCE DESIGN
- SAFETY GUARDS AVAILABLE



METAL SWING CHECK VALVE



LEVERWEIGHT VERSION



LEVERWEIGHT AND GUARD VERSION

VALVE TYPE	NON RETURN VALVE	WEIGHT	CODE	PRICE	NON RETURN VALVE WITH LEVER WEIGHT	WEIGHT	CODE	PRICE
		kg		£		kg		£
DN50		14	AQ/NRV50	122		15	AQ/NRV50LW	157
DN65						20	AQ/NRV65LW	164
DN80		20	AQ/NRV80	144		22	AQ/NRV80LW	172
DN100		26	AQ/NRV100	181		28	AQ/NRV100LW	208
DN125						41	AQ/NRV125LW	372
DN150		50	AQ/NRV150	300		52	AQ/NRV150LW	372
DN200		96	AQ/NRV200	660		98	AQ/NRV200LW	730
DN250		155	AQ/NRV250	832		163	AQ/NRV250LW	967
DN300		215	AQ/NRV300	1178		223	AQ/NRV300LW	1399

DN: Nominal Diameter Size.



Please contact our Sales office for alternative flange drillings and larger sizes. Accessories available include lever & weight kit, flow sensing switch and galvanised steel guard - see our valve accessories section or contact us for further information!



METAL SEAT SWING CHECK VALVE DN350 - DN1200

Metal seat swing check valve used to prevent reverse flow. Suitable for potable water, wastewater and sewage applications.

TECHNICAL SPECIFICATION

- STANDARD: BS EN1074 PT 3: 2000, BS EN12234: 2001 & BS 5153: 1974
- RANGE: DN350 - DN1000
- FLANGES & DRILLINGS: BS EN 1092-2:1987 TABLE 9 (PN16)
- MAXIMUM WORKING PRESSURE: 16 BAR
- HYDROSTATIC PRESSURE TESTS: SEAT- 1.1 x PN (17.6 BAR) BODY-1.5 x PN (24.0 BAR)
- TEMPERATURE RANGE: -10°C TO 70°C, INSULATE AT 0°C AND BELOW
- COATING: BLUE FUSION BONDED EPOXY (WRAS LISTED)

FEATURES

- UNIQUE LIGHTWEIGHT DUCTILE IRON DESIGN
- DURABLE FUSION BONDED EPOXY COATED
- SUITABLE FOR HORIZONTAL & VERTICAL INSTALLATION
- POSITIVE DRIVE BETWEEN SHAFT & HANGER
- OPTIONAL EXTERNAL LEVER ARM & WEIGHT ASSEMBLY
- 1/2" BSP AIR RELEASE AS STANDARD
- ROBUST LOW MAINTENANCE DESIGN
- SAFETY GUARDS AS OPTIONAL



METAL SWING CHECK VALVE (SHOWN WITH GUARD)



VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN350	320	AQ/NRV350LW	3282
DN400	440	AQ/NRV400LW	4438
DN450	580	AQ/NRV450LW	6564
DN500	700	AQ/NRV500LW	8631
DN600	930	AQ/NRV600LW	12155
DN700	1500	AQ/NRV700LW	P.O.A.
DN800	2050	AQ/NRV800LW	P.O.A.
DN900	2600	AQ/NRV900LW	P.O.A.
DN1000	3200	AQ/NRV1000LW	P.O.A.
DN1200	4200	AQ/NRV1200LW	P.O.A.

DN: Nominal Diameter Size.

Please contact us for alternative flange drillings. Accessories available include lever & weight kit, flow sensing switch and steel guard.



RECOIL CHECK VALVE

This single door non-slam recoil swing check valve is suited to systems in which rapid flow reversal exists. Suitable for potable and waste water applications.

TECHNICAL SPECIFICATION

- STANDARD: EN12334
- RANGE: DN50 - DN600
- FLANGE DRILLINGS: BS EN 1092-2:1987 TABLE 9 (PN16)
- MAXIMUM WORKING PRESSURE: 16 BAR
- HYDROSTATIC PRESSURE TESTS: SEAT: 1.1 x PN (17.6 BAR) BODY: 1.5 x PN (24.0 BAR)
- TEMPERATURE RANGE: -10°C TO 70°C, INSULATE AT 0°C AND BELOW
- COATING: BLUE FUSION BONDED EPOXY (WRAS LISTED)

FEATURES

- ANGLED SEAT FOR RAPID CLOSURE
- ROBUST COMPACT DUCTILE IRON DESIGN
- INSPECTION COVER
- GUNMETAL SEATS
- STAINLESS STEEL SHAFT
- BY-PASS FLOW SENSING SWITCH AND MULTI DOOR OPTIONS ON REQUEST



RECOIL CHECK VALVE



RECOIL CHECK VALVE (MULTI-DOOR VERSION WITH BYPASS)

VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN50	20	AQ/RCV50	420
DN80	40	AQ/RCV80	£756
DN100	50	AQ/RCV100	£893
DN150	115	AQ/RCV150	£2048
DN200	135	AQ/RCV200	£2415
DN250	230	AQ/RCV250	£3938
DN300	320	AQ/RCV300	£5460
DN350	420	AQ/RCV350	£6510
DN400	590	AQ/RCV400	£8610
DN450	800	AQ/RCV450	P.O.A.
DN500	1020	AQ/RCV500	P.O.A.
DN600	1270	AQ/RCV600	P.O.A.



Please contact the Sales office for larger diameters, multi-door, PN25 version and alternative flange drillings.

Sinking ball check valve used to prevent reverse flow. Suitable for water and wastewater applications up to 60°C.

MATERIALS

- BODY: CAST IRON
- BALL: NBR
- SEALS: NBR
- BOLTING: A2 STAINLESS STEEL

FEATURES

- DN32 TO DN50 BSP FEMALE THREADED
- DN65 TO DN300 FLANGED PN10; ON REQUEST PN16
- 100% FREE PASSAGE
- BOLTED INSPECTION COVER
- INTEGRAL FLANGE GASKETS (UTI DN200)
- ROBUST EPOXY COATING
- SUITABLE FOR BOTH HORIZONTAL AND VERTICAL INSTALLATION



BALL CHECK VALVE



VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN32	4	PZS/32NRV	69
DN40	4	PZS/40NRV	104
DN50	5	PZS/50NRV	104
DN80	20	PZS/80NRV	220
DN100	29	PZS/100NRV	285
DN150	59	PZS/150NRV	630
DN200	109	PZS/200NRV	1260
DN250	135	PZS/250NRV	2900
DN300	200	PZS/300NRV	4400

DN: Nominal Diameter Size.

Please contact our Sales office for 'floating' ball, alternative flange drillings and larger sizes.



WAFER CHECK VALVE



Double plate check valve used to prevent reverse flow, rated to 16 Bar. Suitable for clean water applications up to 100°C.

MATERIALS

- BODY: CAST IRON EN-GJL-250
- PLATES: STAINLESS STEEL AISI 304
- SEAL: EPDM
- SPRING: STAINLESS STEEL AISI 316
- COATING: FUSION BONDED EPOXY RESIN

FEATURES

- MINIMUM HEAD LOSS
- STAINLESS STEEL PLATES / SPRING
- COMPACT ROBUST DESIGN
- INSTALL BETWEEN PN6/10/16 FLANGES
- ON REQUEST: LARGER SIZES, VITON® SEAT, STAINLESS STEEL BODY, RATED 25 BAR OR WRAS APPROVAL



WAFER CHECK VALVE



VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN50	1	AQ/WCV50	98
DN65	2	AQ/WCV65	108
DN80	3	AQ/WCV80	122
DN100	4	AQ/WCV100	153
DN125	6	AQ/WCV125	222
DN150	8	AQ/WCV150	242
DN200	14	AQ/WCV200	390
DN250	22	AQ/WCV250	625
DN300	34	AQ/WCV300	825

DN: Nominal Diameter Size.



Please contact our Sales office for larger sizes and WRAS approved version.

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SPRING CHECK VALVE



Non-return spring return check valve used to prevent reverse flow. Suitable for clean water applications up to 100°C.

MATERIALS

- BODY: CAST IRON EN-GJL-250
- SPRING: STAINLESS STEEL AISI 302
- SEAL: EPDM
- COATING: FUSION BONDED EPOXY RESIN

FEATURES

- SILENT OPERATION
- RELIABLE SEALING
- MINIMUM HEADLOSS
- PN10 FLANGES
- WRAS APPROVED
- DRILLING BOSSES
- OPTIONAL STAINLESS STEEL STRAINER & DOUBLE VERSION



SPRING CHECK VALVE (SINGLE VERSION)



SPRING CHECK VALVE (DOUBLE VERSIONS)

VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN50	6	AQ/SCV50	210
DN65	8	AQ/SCV65	210
DN80	10	AQ/SCV80	315
DN100	15	AQ/SCV100	435
DN150	32	AQ/SCV150	935
DN200	53	AQ/SCV200	1500
DN250	94	AQ/SCV250	2200
DN300	140	AQ/SCV300	3200

DN: Nominal Diameter Size.

On request: double version, larger sizes, Viton® seat, PN16, PN25 or PN40.



DOUBLE HINGE FLAP VALVE

Metal seat double hinge flap valve with circular aperture to prevent reverse flow in outfall applications. Typically utilised in river, surface / storm water and treatment works outfalls.

TECHNICAL SPECIFICATION

- RANGE: DN80 - DN600
- DRILLINGS:
BS EN 1092-2 1987 TABLE 9 (PN16). *BS10 TABLE D
- MAXIMUM PRESSURE: 6.0 METRES STATIC ON-SEAT HEAD
- COATING: BLUE FUSION BONDED EPOXY (WRAS LISTED)

FEATURES

- UNIQUE LIGHTWEIGHT DUCTILE IRON DESIGN
- DOUBLE HINGE FOR OPTIMAL SEALING
- DURABLE FUSION BONDED EPOXY COATED
- ANTI-TAMPER STAINLESS STEEL HINGE PINS
- BUSHED HINGE LINKS
- CORROSION RESISTANT CONSTRUCTION
- LIFTING EYE AS STANDARD
- DRILLED TO SUIT FLANGE & WALL MOUNTING



DOUBLE HINGE FLAP VALVE



VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN80	5	AQ/FLAP80	57
DN100	6	AQ/FLAP100	80
DN150	11	AQ/FLAP150	120
DN200	16	AQ/FLAP200	175
DN225*	20	AQ/FLAP225	220
DN250	23	AQ/FLAP250	250
DN300	32	AQ/FLAP300	325
DN350/375*	34	AQ/FLAP350	460
DN400	49	AQ/FLAP400	570
DN450	56	AQ/FLAP450	665
DN500	68	AQ/FLAP500	840
DN600	93	AQ/FLAP600	1035

DN: Nominal Diameter Size.



Handy Hint! To ensure effective operation mount the flap valve with sufficient 'fall-away' to prevent the build-up of debris around the invert.

DESIGNED IN THE UK

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The Floaway® anti-flood valve is a simple yet effective backflow prevention valve for use within both domestic and commercial applications to prevent reverse flow of sewage and wastewater from the drainage network.

The Floaway® is an inline self-acting device with a manual lockable door. The design of the valve incorporates smooth walls with rounded corners to prevent solids accumulating and to avoid septic odour.

APPLICATIONS

- LOW LYING AREAS SUSCEPTIBLE TO FLOODING
- PROTECTION FROM UNDERSIZED SEWERS AT HIGH FLOWRATES
- PUMPING STATIONS
- RODENT INGRESS REDUCTION

FEATURES

- EUROPEAN STANDARD EN13564-1:2002
- CONFORMS TO BUILDING REGULATION PART H1 SECTION 2.8 - 2.12
- MANUAL LOCKABLE DOOR
- LIGHTWEIGHT AND ROBUST PVC BODY
- STAINLESS STEEL INTERNAL FLAP
- LARGE INSPECTION COVER
- EASY INSTALLATION



ANTI-FLOOD VALVE



VALVE TYPE	OUTLET mm	WEIGHT kg	CODE	PRICE £
ET110	110	1.9	VA/ABS110NRV	120
ET160	160	1.9	VA/ABS160NRV	140

Larger sizes available on request.



COMPACT WASTEWATER AIR VALVE

Compact double orifice air valve having three functions:

- Efficient release of gas to prevent pressure build-up
- Ingress of gas to prevent vacuum in the pipe system
- Controlled bleed of gas to maintain system stability

Suitable for wastewater and sewage applications.

TECHNICAL SPECIFICATION

- INLET: 2" BSP
- MAXIMUM WORKING PRESSURE: 16 BAR
- HYDROSTATIC PRESSURE TESTS:
SEAT: 1.1 x PN (17.6 BAR)
BODY: 1.1 x PN (24.0 BAR)
- TEMPERATURE RANGE:
-10°C TO 70°C, INSULATE AT 0°C AND BELOW
- COATING: BLUE FUSION BONDED EPOXY (WRAS LISTED)

FEATURES

- UNIQUE LIGHTWEIGHT COMPACT DESIGN
- DIRECTLY ACTING STAINLESS STEEL FLOAT
- EXCELLENT OUTFLOW PERFORMANCE
- SLOPED FLOAT CHAMBER
- CORROSION RESISTANT CONSTRUCTION
- TAPPED COWL FOR PIPED OUTFLOW
- DRAINAGE VALVE AS STANDARD
- ROBUST LOW MAINTENANCE DESIGN
- AVAILABLE IN STAINLESS STEEL, PRICES ON REQUEST

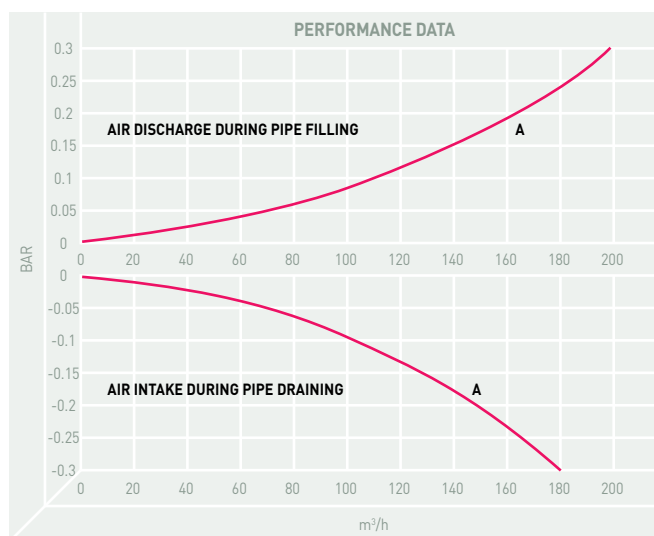
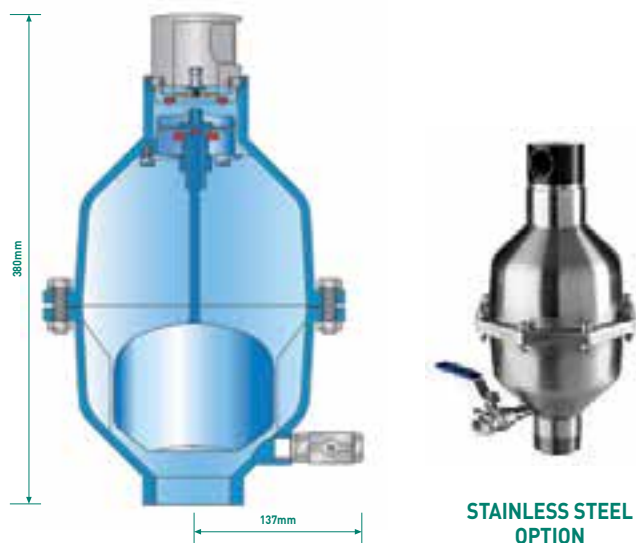
OPTIONS

- ISOLATING GATE VALVE (RECOMMENDED)
- ENGINEERED SURGE ALLEVIATION PROTECTION MECHANISM
- FLANGED INLET
- RAPID FILL PROTECTION



COMPACT WASTEWATER AIR VALVE

VALVE TYPE	CURVE	WEIGHT kg	CODE	PRICE £
2" BSP PN16	/ A	10.5	AQ/AV25	740



B

We can also supply accessories, such as, isolating gate valve and inflow / outflow check valve.

WASTEWATER AIR VALVE

Double orifice air valve having three functions:

- Efficient release of gas to prevent pressure build-up
- Ingress of gas to prevent vacuum in the pipe system
- Controlled bleed of gas to maintain system stability

Suitable for wastewater & sewage applications.

TECHNICAL SPECIFICATION

- RANGE: DN50 - DN200
- FLANGES & DRILLINGS: BS EN1092-2 1987 TABLE 9 (PN16)
- MAXIMUM WORKING PRESSURE: 16 BAR
- HYDROSTATIC PRESSURE TESTS: SEAT: 1.1 x PN (17.6 BAR) BODY: 1.5 x PN (24.0 BAR)
- TEMPERATURE RANGE: -10°C TO 70°C, INSULATE AT 0°C AND BELOW
- COATING: BLUE FUSION BONDED EPOXY (WRAS LISTED)

FEATURES

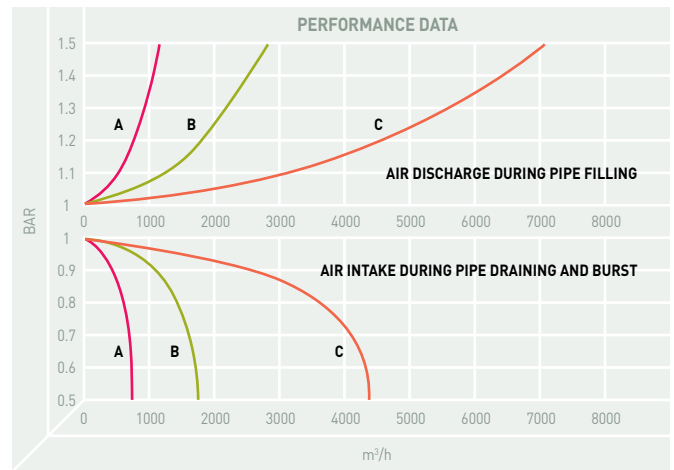
- UNIQUE LIGHTWEIGHT DUCTILE IRON DESIGN
- DURABLE FUSION BONDED EPOXY COATED
- DIRECTLY ACTING FLOAT MECHANISM
- CORROSION RESISTANT CONSTRUCTION
- DRAIN VALVE AS STANDARD
- ROBUST LOW MAINTENANCE DESIGN
- LARGE SLOPED FLOAT CHAMBER
- AVAILABLE IN STAINLESS STEEL, PRICES ON REQUEST
- TAPPED COWL AVAILABLE

OPTIONS

- ISOLATING GATE VALVE (RECOMMENDED)
- ENGINEERED SURGE ALLEVIATION PROTECTION MECHANISM
- RAPID FILL PROTECTION



WASTEWATER AIR VALVE



VALVE TYPE	CURVE	WEIGHT kg	CODE	PRICE £
DN50	/ A	29	AQ/AV50	940
DN80/100	/ B	40	AQ/AV80	1080
DN150	/ C	78	AQ/AV150	P.O.A.
DN200	/ C	82	AQ/AV200	P.O.A.



STAINLESS STEEL OPTION



We can also supply accessories, such as, isolating gate valve, inflow / outflow check valve and tapped cowl for piped outlet.



aqua brake mini

Single small orifice air valve for controlled and efficient air release.
Suitable for potable and filtered water applications.

TECHNICAL SPECIFICATION

- STANDARD: BS EN 1074-4
- INLET: 1" BSP (FEMALE THREADED)
- MAXIMUM WORKING PRESSURE: 16 BAR (25/40 BAR ON REQUEST)
- TEMPERATURE RANGE: -10°C TO 50°C, INSULATED AT 0°C
- COATING: FUSION BONDED EPOXY (WRAS LISTED)

FEATURES

- STAINLESS STEEL FLOAT
- LIGHTWEIGHT DUCTILE IRON CONSTRUCTION
- STAINLESS STEEL FASTENERS
- WRAS APPROVED NON-METALLIC COMPONENTS
- SEAT OVER COMPRESSION PROTECTION

OPTIONS

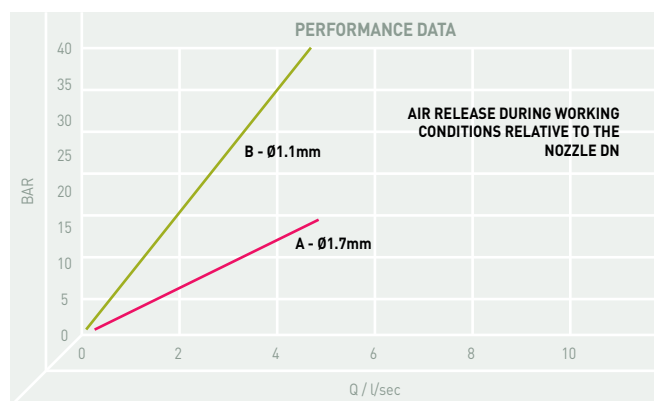
- ISOLATING VALVE
- INLET FLANGE
- PN25 VERSION
- REINFORCED STAINLESS STEEL FLOAT



AQUABRAKE® MINI WITH FLANGE



AQUABRAKE® MINI



VALVE TYPE	CURVE	WEIGHT kg	CODE	PRICE £
1" BSP PN16	/ A	2.8	AQ/AV1F25	152
1" BSP PN40	/ B	2.8	-	P.O.A.



Contact our experienced Sales Team for further information about our PN40 version.



AQUABRAKE® WITH FLANGE AND COWL



AQUABRAKE®

Single large orifice air valve having two functions:

- Efficient release of gas to prevent pressure build-up
- Ingress of gas to prevent vacuum in the pipe system

Suitable for potable and filtered water applications.

TECHNICAL SPECIFICATION

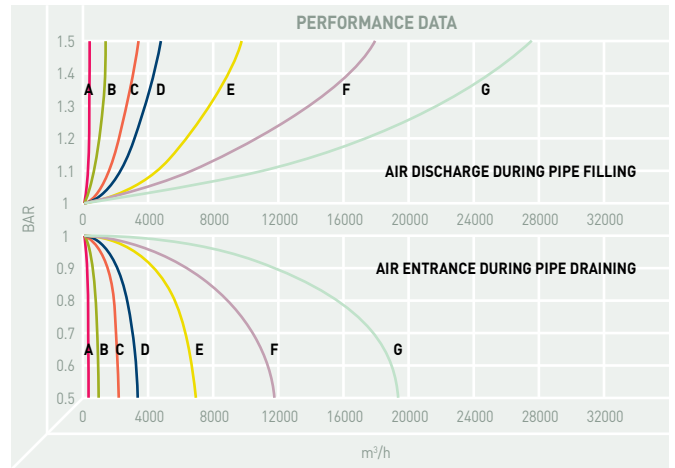
- STANDARD: BS EN 1074-4
- INLET: 1" BSP TO DN300
- MAXIMUM WORKING PRESSURE: 16 BAR (25 & 40 BAR ON REQUEST)
- TEMPERATURE RANGE: -10°C TO 60°C, INSULATED AT 0°C AND BELOW
- HYDROSTATIC PRESSURE TESTS: SEAT: 1.1 x PN BODY: 1.5 x PN
- COATING: FUSION BONDED EPOXY (WRAS LISTED)

OPTIONS

- ISOLATING VALVE
- TAPPED COWL
- INSECT MESH
- SURGE ALLEVIATION MECHANISM
- DISCHARGE ONLY KIT
- RAPID FILL PROTECTION

FEATURES

- DIRECTLY ACTING SOLID CYLINDRICAL FLOAT
- LIGHTWEIGHT COMPACT DESIGN
- EXCELLENT FLOW CAPACITY
- DRAIN VALVE
- CORROSION RESISTANT CONSTRUCTION



VALVE TYPE	CURVE	WEIGHT kg	CODE	PRICE £
1" BSP	/ A	3.2	AQ/AV2F25	152
2" BSP	/ B	6.2	-	P.O.A.
DN50	/ B	8.6	AQ/AV2F50	240
DN80	/ C	12.4	AQ/AV2F80	332
DN100	/ D	20	AQ/AV2F100	452
DN150	/ E	56	AQ/AV2F150	695
DN200	/ F	95	AQ/AV2F200	P.O.A.
DN250	/ G	121	AQ/AV2F250	P.O.A.
DN300	/ G	127	AQ/AV2F300	P.O.A.

Please speak to our experienced Sales Team for further information.





Double orifice air valve having three functions:

- Efficient release of gas to prevent pressure build-up
- Ingress of gas to prevent vacuum in the pipe system
- Controlled bleed of gas to maintain stability

Suitable for potable and filtered water applications.

TECHNICAL SPECIFICATION

- STANDARD: BS EN 1074-4
- INLET: 1" BSP TO DN300
- MAXIMUM WORKING PRESSURE: 16 BAR (25 & 40 BAR ON REQUEST)
- TEMPERATURE RANGE: -10°C TO 60°C, INSULATED AT 0°C AND BELOW
- HYDROSTATIC PRESSURE TESTS: SEAT: 1.1 x PN BODY: 1.5 x PN
- COATING: FUSION BONDED EPOXY (WRAS LISTED)

OPTIONS

- ISOLATING VALVE
- TAPPED COWL
- INSECT MESH
- SURGE ALLEVIATION MECHANISM
- DISCHARGE ONLY KIT
- RAPID FILL PROTECTION

FEATURES

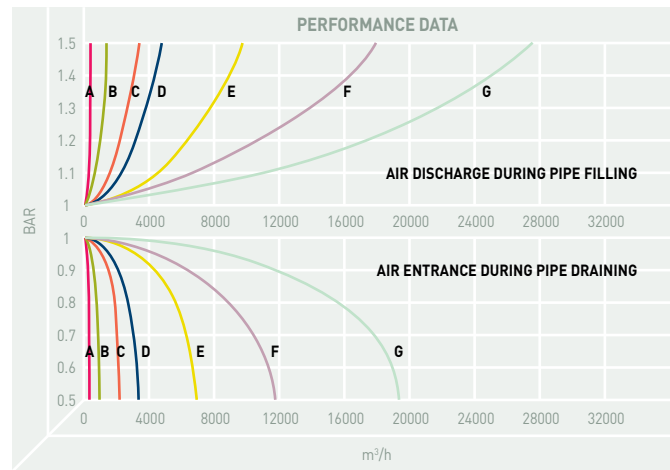
- DIRECTLY ACTING SOLID CYLINDRICAL FLOAT
- LIGHTWEIGHT COMPACT SINGLE CHAMBER DESIGN
- PATENTED SMALL ORIFICE CONFIGURATION
- EXCELLENT FLOW CAPACITY
- DRAIN VALVE
- CORROSION RESISTANT CONSTRUCTION



AQUABRAKE®



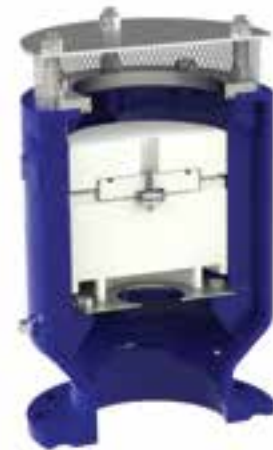
AQUABRAKE® WITH FLANGE AND COWL



VALVE TYPE	CURVE	WEIGHT kg	CODE	PRICE £
1" BSP	/ A	2.8	AQ/AV3F25	196
2" BSP	/ B	6.2	-	P.O.A.
DN50	/ B	8.3	AQ/AV3F50	285
DN80	/ C	12.4	AQ/AV3F80	390
DN100	/ D	20	AQ/AV3F100	520
DN150	/ E	49	AQ/AV3F150	790
DN200	/ F	95	AQ/AV3F200	P.O.A.
DN250	/ G	121	AQ/AV3F250	P.O.A.
DN300	/ G	127	AQ/AV3F300	P.O.A.



Please speak to our experienced Sales Team for further information.



Double orifice air valve with rapid fill prevention having four functions:

- Efficient release of gas to prevent pressure build-up
- Maintain a safe discharge velocity reducing water hammer
- Ingress of gas to prevent vacuum in the pipe system
- Controlled bleed of gas to maintain stability

Suitable for potable and filtered water applications.

TECHNICAL SPECIFICATION

- STANDARD: BS EN 1074-4
- INLET: 1" BSP TO DN300
- MAXIMUM WORKING PRESSURE: 16 BAR (25 & 40 BAR ON REQUEST)
- TEMPERATURE RANGE: -10°C TO 60°C, INSULATED AT 0°C AND BELOW
- HYDROSTATIC PRESSURE TESTS: SEAT: 1.1 x PN BODY: 1.5 x PN
- COATING: FUSION BONDED EPOXY (WRAS LISTED)

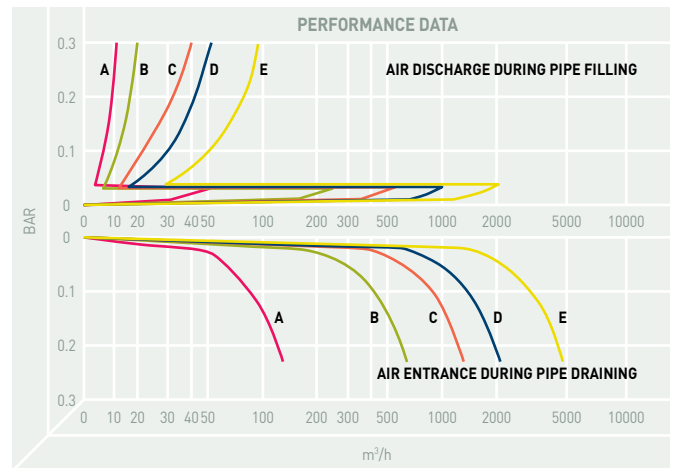
OPTIONS

- ISOLATING VALVE
- TAPPED COWL
- INSECT MESH
- SURGE ALLEVIATION MECHANISM

FEATURES

- DIRECTLY ACTING SOLID CYLINDRICAL FLOAT
- LIGHTWEIGHT COMPACT SINGLE CHAMBER DESIGN
- PATENTED SMALL ORIFICE CONFIGURATION
- EXCELLENT FLOW CAPACITY
- DRAIN VALVE
- CORROSION RESISTANT CONSTRUCTION

FLANGED AQUABRAKE® WITH RAPID FILL PREVENTION AND INSECT MESH



01	VALVE TYPE	CURVE	WEIGHT kg	CODE	PRICE £
02	1" BSP	/ A	3	AQ/AV3F25RFP	214
03	2" BSP	/ B	6	-	P.O.A.
04	DN50	/ B	9	AQ/AV3F50RFP	300
05	DN65	/ C	9	AQ/AV3F65RFP	305
06	DN80	/ C	12	AQ/AV3F80RFP	420
07	DN100	/ D	20	AQ/AV3F100RFP	560
08	DN150	/ E	56	AQ/AV3F150RFP	825
09	DN200	/ E	58	AQ/AV3F200RFP	1140

Please speak to our experienced Sales Team for further information.





Saferise® is a **double orifice air valve** with integral engineered surge anticipation and alleviation mechanism. Designed to overcome potentially damaging effects of hydraulic surges associated with water boosting systems in high-rise buildings, vacuum prevention on pump failure and column separation. Saferise® allows the efficient intake of bulk air during the draining cycle while accurately controlling the discharge speed during the charging cycle.

TECHNICAL SPECIFICATION

- STANDARD: BS EN 1074-4:2000
- INLET: 1" BSP TO DN200
- FLANGES AND DRILLINGS: BS EN 1092-2:1987 TABLE 9 (PN16)
- ALTERNATIVES: BS EN 1092-2:1987 TABLE 10 (PN25) BS EN 1092-2:1987 TABLE 11 (PN40)
- MAXIMUM WORKING PRESSURE: 16 BAR (25 AND 40 BAR ON REQUEST)
- MINIMUM WORKING PRESSURE: 0.3 BAR
- TEMPERATURE RANGE: -10°C TO 60°C, INSULATED AT 0°C AND BELOW

- HYDROSTATIC PRESSURE TESTS: SEAT: 1.1 x PN BODY 1.5 x PN
- COATING: FUSION BONDED EPOXY (WRAS LISTED)

OPTIONS

- TAPPED OUTLET COWL
- HIGHER PRESSURE VERSION (PN25, PN40 & PN64)
- INSECT MESH
- ASSOCIATED COMPONENTS (ISOLATION VALVE AND FILTER)

FEATURES

- PATENTED PROVEN ENGINEERED DESIGN
- METALLIC INTEGRAL SURGE ALLEVIATION MECHANISM
- DIRECTLY-ACTING PRECISION-MACHINED SOLID FLOATS
- ROBUST LIGHTWEIGHT DUCTILE IRON BODY
- CORROSION RESISTANT CONSTRUCTION
- EXCELLENT FLOW CAPACITY
- WRAS APPROVED



THREADED SAFERISE® WITH TAPPED COWL



FLANGED SAFERISE® WITH COWL

VALVE TYPE	WEIGHT kg	CODE	PRICE £
1" BSP	4	AQ/AV3F25AS	260
DN50	9	AQ/AV3F50AS	360
DN65	10	AQ/AV3F65AS	400
DN80	13	AQ/AV3F80AS	500
DN100	22	AQ/AV3F100AS	610
DN150	60	AQ/AV3F150AS	945
DN200	60	AQ/AV3F200AS	1315

- 01
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Please speak to our experienced Sales Team for further information.

Double orifice air valve in stainless steel having three functions:

- Efficient release of gas to prevent pressure build-up
- Ingress of gas to prevent vacuum in the pipe system
- Controlled bleed of gas to maintain stability

Suitable for potable and filtered water applications in demanding environments.

TECHNICAL SPECIFICATION

- STANDARD: BS EN 1074-4
- INLET: 1" BSP TO DN300
- MAXIMUM WORKING PRESSURE: 16 BAR (25 & 40 BAR ON REQUEST)
- TEMPERATURE RANGE: -10°C TO 60°C, INSULATED AT 0°C AND BELOW
- HYDROSTATIC PRESSURE TESTS: SEAT: 1.1 x PN BODY: 1.5 x PN
- CONSTRUCTED IN AISI 304, AISI 316 OR DUPLEX ON REQUEST

OPTIONS

- ISOLATING VALVE
- TAPPED COWL
- INSECT MESH
- RAPID FILL PROTECTION
- SURGE ALLEVIATION
- DISCHARGE ONLY KIT

FEATURES

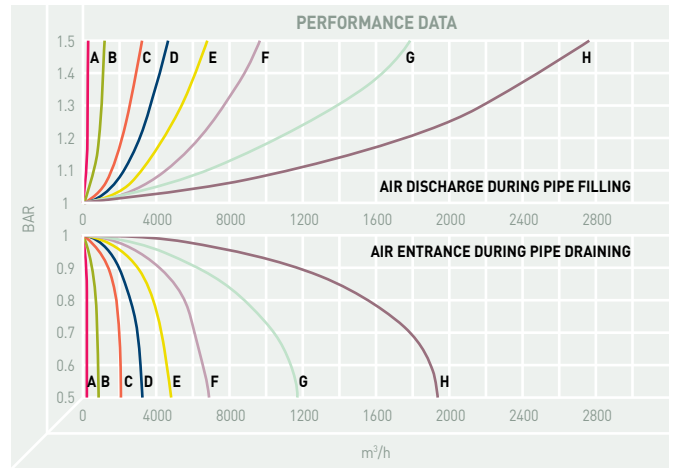
- DIRECTLY ACTING SOLID CYLINDRICAL FLOAT
- LIGHTWEIGHT COMPACT SINGLE CHAMBER DESIGN
- PATENTED SMALL ORIFICE CONFIGURATION
- EXCELLENT FLOW CAPACITY
- DRAIN VALVE
- CORROSION RESISTANT CONSTRUCTION



AQUABRAKE®



AQUABRAKE® WITH INSECT MESH



01	VALVE TYPE	CURVE	WEIGHT kg	CODE	PRICE £
02	1" BSP	/ A	7	AQ/AV3F25SS	P.O.A.
03	2" BSP	/ B	7	-	P.O.A.
04	DN50	/ C	8	AQ/AV3F50SS	P.O.A.
05	DN65	/ D	8	AQ/AV3F65SS	P.O.A.
06	DN80	/ E	12	AQ/AV3F80SS	P.O.A.
07	DN100	/ F	17	AQ/AV3F100SS	P.O.A.
08	DN150	/ G	45	AQ/AV3F150SS	P.O.A.
09	DN200	/ H	62	AQ/AV3F200SS	P.O.A.

Larger diameters on request.

Please speak to our experienced Sales Team for further information.



PRESSURE REDUCING VALVE

An accurate and reliable directly-acting pressure reducing valve used to maintain a preset downstream pressure regardless of flow rate and upstream pressure fluctuations. Suitable for domestic, commercial and industrial applications involving potable water, oil or air.

TECHNICAL SPECIFICATION

- RANGE: DN50 - DN150
- ADJUSTABLE DOWNSTREAM PRESSURE: 1 1/2 - 6 BAR, 5 - 12 BAR OR 12-24 BAR
- MAXIMUM UPSTREAM PRESSURE: 40 BAR
- MINIMUM DYNAMIC DIFFERENTIAL PRESSURE: 1 BAR
- FLANGED: EN1092 TABLE 9 (PN16)
- FACE TO FACE: EN558 SERIES 1
- MAXIMUM TEMPERATURE: 70°C
- HYDROSTATIC PRESSURE TESTS: SEAT: 1.1 x PN BODY: 1.5 x PN
- COATING: WRAS LISTED FUSION BONDED EPOXY

OPTIONS

- INLINE STRAINER
- ISOLATION VALVE

FEATURES

- PATENTED SELF CLEANING PISTON
- PROVEN ENGINEERED BALANCE DESIGN
- ROBUST DUCTILE CONSTRUCTION
- STAINLESS STEEL INTERNAL COMPONENTS
- WRAS LISTED MATERIALS
- TAPPED UPSTREAM AND DOWNSTREAM BOSSES



PRESSURE REDUCING VALVE



SECTIONAL VIEW



THREADED STAINLESS STEEL OPTION

VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN50	12	AQ/PRV50/6	735
DN65	19	AQ/PRV65/6	950
DN80	24	AQ/PRV80/6	1200
DN100	34	AQ/PRV100/6	1525
DN125	56	AQ/PRV125/6	2580
DN150	74	AQ/PRV150/6	3050

Please note prices relate to 1 1/2-6 BAR version, for other prices please speak to our Sales Team.



Please speak to our experienced Sales Team for further information.

EQUILIBRIUM BALL FLOAT VALVE

Equilibrium ball float valve with multiple discharge ports used to automatically regulate and control the filling of tanks and reservoirs to a predetermined level. Suitable for clean and potable water duties.

TECHNICAL SPECIFICATION

- RANGE: DN50 - DN300
- FLANGES AND DRILLINGS: BS EN 1092-2:1987 TABLE 9 (PN16)
- MAXIMUM WORKING PRESSURE: 16 BAR
- HYDROSTATIC PRESSURE TESTS: SEAT: 1.1 x PN (17.6 BAR) BODY: 1.5 x PN (24.0 BAR)
- TEMPERATURE RANGE: -10°C TO 70°C, INSULATED AT 0°C AND BELOW
- COATING: BLUE FUSION BONDED EPOXY (>300µ AND WRAS LISTED)

FEATURES

- UNIQUE LIGHTWEIGHT DUCTILE IRON DESIGN
- BALANCED SEAT FOR OPTIMAL EFFICIENCY
- VERSATILE T-PORTED FLANGED BODY
- STAINLESS STEEL INTERNALS AND FLOAT FOR CORROSION RESISTANCE
- LONG FLOAT ARM FOR ACCURATE AND RELIABLE OPERATION
- FLOAT ARM CAN BE OFF-SET BY 45° SO NOT TO OBSTRUCT HORIZONTAL INSTALLATION
- DURABLE FUSION BONDED EPOXY COATING



FLOAT VALVE

OPTIONS

- ALTERNATIVE INTERNAL MATERIALS
- ALTERNATIVE FLANGE DRILLINGS
- ANTI-FREEZING DEVICE

VALVE TYPE	WEIGHT kg	CODE	PRICE £
DN50	21	AQ/FV50	444
DN65	36	AQ/FV65	498
DN80	33	AQ/FV80	660
DN100	41	AQ/FV100	840
DN125	49	AQ/FV125	1050
DN150	79	AQ/FV150	1452
DN200	118	AQ/FV200	2112
DN250	138	AQ/FV250	2370
DN300	250	AQ/FV300	4620

Please speak to our experienced Sales Team for further information.



BRASS GATE VALVE

Metal seat wedge gate valve used for pipeline isolation. Suitable for non-aggressive, non-corrosive and non-abrasive media up to 100°C.

MATERIALS

- BODY: BRASS CW617N
- BONNET: BRASS CW617N
- WEDGE: BRASS CW617N
- HEXAGONAL NUT: BRASS CW614N
- STEM: BRASS CW614N
- BONNET WASHER: FIBRE
- STEM SEAL: EPDM

FEATURES

- THREADED FEMALE BSP PARALLEL
- SOLID WEDGE DESIGN
- NON-RISING STEM
- 100% FULL BORE
- SCREWED BONNET
- HANDWHEEL OPERATED



BRASS GATE VALVE

VALVE TYPE	WEIGHT kg	CODE	PRICE £
1/2" BSP PN20	0.201	VI/157/14	7
3/4" BSP PN20	0.279	VI/157/20	10
1" BSP PN20	0.416	VI/157/25	13.75
1 1/4" BSP PN20	0.602	VI/157/32	19.25
1 1/2" BSP PN20	0.76	VI/157/40	25.50
2" BSP PN20	1.228	VI/157/50	36.50
2 1/2" BSP PN20	1.97	VI/157/65	60
3" BSP PN20	2.558	VI/157/80	76
4" BSP PN20	4.62	VI/157/100	136



Please contact our Sales office if you require advice on choosing the most appropriate valve.

BRASS BALL VALVE

Two piece ball valve with PTFE seat used for pipeline isolation. Suitable for many industrial and domestic applications up to 150°C.

MATERIALS

- BODY: NICKEL PLATED BRASS
CW617N
- BALL: CHROME PLATED BRASS
CW617N
- STEM: CHROME PLATED BRASS
CW614N
- SEAL: PTFE
- WASHERS: NBR

FEATURES

- THREADED FEMALE BSP
PARALLEL
- ANTI-BLOW OUT STEM DESIGN
- CHROME PLATED BRASS BALL
- 'BUBBLE-TIGHT' SEAL
- 100% FULL BORE
- DURABLE PTFE SEAT
- LEVER OPERATED



BRASS BALL VALVE

VALVE TYPE	WEIGHT kg	CODE	PRICE £
1/2" BSP PN40	0.178	VI/90-14	4.75
3/4" BSP PN40	0.296	VI/90-20	7
1" BSP PN40	0.423	VI/90-25	10.75
1 1/4" BSP PN30	0.664	VI/90-32	17
1 1/2" BSP PN30	0.983	VI/90-40	25
2" BSP PN25	1.58	VI/90-50	39
2 1/2" BSP PN18	3.5	VI/90-65	89.50
3" BSP PN16	5.45	VI/90-80	140
4" BSP PN14	8.775	VI/90-100	229

Please contact our Sales office if you require advice on choosing the most appropriate valve.



BRASS SPRING CHECK VALVE

Two piece spring return check valve used to prevent reverse flow. Suitable for many industrial and domestic applications up to 100°C.

MATERIALS

- BODY: COPPER ALLOY CW617N
- SEAT: NBR
- SEAL ASSEMBLY: NYLON 6
- SPRING: STAINLESS STEEL AISI 302

FEATURES

- THREADED BSP PARALLEL
- SPRING ASSISTED
- RESILIENT SEAT
- OPTIONAL STAINLESS STEEL STRAINER
- SUITABLE FOR BOTH HORIZONTAL AND VERTICAL INSTALLATION



BRASS SPRING CHECK VALVE

VALVE TYPE	WEIGHT kg	CODE	PRICE £
1/2" BSP PN12	0.137	VI/103-12	4.25
3/4" BSP PN12	0.21	VI/103-20	5.75
1" BSP PN12	0.28	VI/103-25	7.50
1 1/4" BSP PN10	0.407	VI/103-32	11
1 1/2" BSP PN10	0.608	VI/103-40	16.25
2" BSP PN10	0.845	VI/103-50	22.50
2 1/2" BSP PN8	1.404	VI/103-65	42
3" BSP PN8	2.1	VI/103-80	59
4" BSP PN8	2.5	VI/103-100	104



Please contact our Sales office if you require advice on choosing the most appropriate valve.

BRASS SPRING CHECK VALVE

c/w STRAINER

Two piece spring check valve used to prevent reverse flow. Strainer fitted to minimize debris entering pipe system. Suitable for many industrial and domestic applications up to 100°C.

MATERIALS

- BODY: COPPER ALLOY CW617N
- SEAT: NBR
- SEAL ASSEMBLY: NYLON 6
- SPRING: STAINLESS STEEL AISI 302
- STRAINER: STAINLESS STEEL AISI 304

FEATURES

- SCREWED FEMALE BSP PARALLEL
- SPRING ASSISTED
- RESILIENT SEAT
- STAINLESS STEEL STRAINER
- SUITABLE FOR BOTH HORIZONTAL AND VERTICAL INSTALLATION



BRASS SPRING CHECK VALVE
c/w STRAINER

VALVE TYPE	WEIGHT kg	CODE	PRICE £
1/2" BSP PN10	0.096	VI/108-14	3.50
3/4" BSP PN10	0.141	VI/108-20	4.50
1" BSP PN10	0.205	VI/108-25	5.50
1 1/4" BSP PN8	0.301	VI/108-32	8
1 1/2" BSP PN8	0.444	VI/108-40	11.75
2" BSP PN8	0.625	VI/108-50	16.75
2 1/2" BSP PN6	1.1	VI/108-65	32.25
3" BSP PN6	1.65	VI/108-80	44
4" BSP PN6	2.465	VI/108-100	76

DN: Nominal Diameter Size.

Please contact our Sales office if you require advice on choosing the most appropriate valve.



BRASS SWING CHECK VALVE

Swing check valve used to prevent reverse flow. Suitable for many industrial and domestic applications up to 100°C.

MATERIALS

- BODY: BRASS CW617N
- INSPECTION COVER: BRASS CW617N
- DISK: BRASS CW617N (+ NBR)
- WASHERS: FIBRE

FEATURES

- SCREWED FEMALE BSP PARALLEL
- METAL SEAT
- SCREWED INSPECTION COVER
- FREE HANGING DISC
- SUITABLE FOR BOTH HORIZONTAL AND VERTICAL INSTALLATION



BRASS SWING CHECK VALVE

VALVE TYPE	WEIGHT kg	CODE	PRICE £
1/2" BSP PN12	0.171	VI/130-14	5.75
3/4" BSP PN12	0.272	VI/130-20	7.25
1" BSP PN12	0.416	VI/130-25	11
1 1/4" BSP PN10	0.632	VI/130-32	16.25
1 1/2" BSP PN10	0.804	VI/130-40	21
2" BSP PN10	1.124	VI/130-50	29.50
2 1/2" BSP PN8	2.02	VI/130-65	60
3" BSP PN8	2.87	VI/130-80	83
4" BSP PN8	5.3	VI/130-100	154



Please contact our Sales office if you require advice on choosing the most appropriate valve.

VALVE OPERATING EQUIPMENT

	EXTENSION SPINDLE DN50 - DN300	EXTENSION SPINDLE DN350 - DN600	T-KEY DN50 - DN300	T-KEY DN350 - DN600	ADJUSTABLE OUTREACH SUPPORT BRACKET	FLOOR MOUNTED PEDESTAL
300 - 1000mm (ONE PIECE)	£40 AQ/EXT1000 4kg	£70 AQ/EXT1000-L 7kg	£40 VJ/TEE-KEYX1M 4.5kg	£70 VJ/TEE-KEYX1M-L 6.5kg	-	-
1001 - 2000mm (ONE PIECE)	£50 AQ/EXT2000 6.5kg	£80 AQ/EXT2000-L 9.5kg	£44 VJ/TEE-KEYX1.5M 7kg	£80 VJ/TEE-KEYX1.5M-L 9kg	-	-
2001 - 3000mm (ONE PIECE)	£60 AQ/EXT3000 9kg	£90 AQ/EXT3000-L 12kg	-	-	-	-
3001 - 4000mm (TWO PIECE)	£103 AQ/EXT4000 12kg	£133 AQ/EXT4000-L 15kg	-	-	-	-
4001 - 5000mm (TWO PIECE)	£113 AQ/EXT5000 14.5kg	£143 AQ/EXT5000-L 17.5kg	-	-	-	-
5001 - 6000mm (TWO PIECE)	£123 AQ/EXT6000 17kg	£153 AQ/EXT6000-L 20kg	-	-	-	-
01 EXTRA FOR HANDWHEEL	£34 10kg	£34 (UP TO) 10kg	-	-	-	-
02 UNIVERSAL JOINTS (PAIR)	£170 AQ/UNIJOINT26 & AQ/GAITER35 1kg	£170 AQ/UNIJOINT26 & AQ/GAITER35 1kg	-	-	-	-
03						
04 80 - 300mm	-	-	-	-	£45 AQ/OR80-300 2.5kg	-
05 80 - 700mm	-	-	-	-	£80 AQ/OR80-700 3kg	-
06						
07 800mm C/W F10 PAD	-	-	-	-	-	£220 AQ/HEADSTOCK 12kg
08 800mm C/W F14 PAD	-	-	-	-	-	£285 AQ/HEADSTOCKF14 12kg
09						

BEVEL GEARBOX

Reliable reduction bevel gearbox designed for long-life operation that can be either manually or motor driven.

Prepared to suit non-rising multi-turn valves such as gate, globe or penstock valves.

FEATURES

- PROVEN ENGINEERED DESIGN
- GEARS SUPPORTED BY TAPERED ROLLER BEARINGS
- REMOVABLE PINION SHAFT
- GREASE FILLED FOR LONG-LIFE
- RANGE OF GEARING RATIOS
- ROBUST DUCTILE IRON HOUSING
- INPUT PREPARED FOR ACTUATION
- DURABLE FUSION BONDED EPOXY COATING

TECHNICAL

- MAXIMUM OUTPUT TORQUE: 3200Nm
- INPUT & OUTPUT CONFIGURATION: ISO5210
- INGRESS PROTECTION: IP67
- MAX. TEMPERATURE: 120°C
- COATING: WRAS LISTED FUSION BONDED EPOXY

OPTIONS

- ACCEPTANCE OF RISING SPINDLE AND STEM PROTECTION TUBE
- BS5163 TAPERED STEM CAP
- HANDWHEEL (LOCKABLE ON REQUEST)
- ELECTRICAL ACTUATION
- IP68 ON REQUEST
- SECONDARY REVERSING SPUR GEARBOX



BEVEL GEARBOX



TYPE	RATIO	WEIGHT kg	CODE	PRICE £
BGB2	1:4	52	BGBR F16/F14	945
BGB3	1:4	103	BGB3 F25/F16	1315

SPUR GEARBOX

Reliable reduction spur gearbox designed for long-life operation that can be either manually or motor driven.

Prepared to suit non-rising multi-turn valves such as gate, globe or penstock valves.

FEATURES

- PROVEN ENGINEERED DESIGN
- GEARS SUPPORTED BETWEEN BEARING RACES
- GREASE FILLED FOR LONG-LIFE
- RANGE OF GEARING RATIOS
- ROBUST DUCTILE IRON HOUSING
- INPUT PREPARED FOR ACTUATION
- DURABLE FUSION BONDED EPOXY COATING

TECHNICAL

- MAXIMUM OUTPUT TORQUE: 7200Nm
- INPUT & OUTPUT CONFIGURATION: ISO5210
- INGRESS PROTECTION: IP67
- MAX. TEMPERATURE: 120°C
- COATING: WRAS LISTED FUSION BONDED EPOXY

OPTIONS

- ACCEPTANCE OF RISING SPINDLE AND STEM PROTECTION TUBE
- BS5163 TAPERED STEM CAP
- HANDWHEEL (LOCKABLE ON REQUEST)
- ELECTRICAL ACTUATION
- IP68 ON REQUEST
- SECONDARY REVERSING SPUR GEARBOX



SPUR GEARBOX



TYPE	RATIO	WEIGHT kg	CODE	PRICE £
SGB1	1:4	22	SGB1 F14/F10	P.O.A.
SGB2	1:8	32	SGB2 F16/F10	483
SGB2	1:4	32	SGB2 F16/F14	P.O.A.
SGB3	1:16	86	SGB3 F25/F10	693
SGB3	1:8	86	SGB3 F25/F14	P.O.A.
SGB3	1:4	86	SGB3 F25/F14	P.O.A.
SGB4	1:16	122	SGB4 F30/F14	P.O.A.
SGB4	1:8	120	SGB4 F30/F14	P.O.A.
SGB5	1:16	265	SGB1 F40/F14	P.O.A.
SGB5	1:8	260	SGB1 F40/F16	P.O.A.

REVERSING SPUR GEARBOX

Reliable reversing reduction spur gearbox designed for long-life operation that can be either manually or motor driven. Engineered to reverse the output direction regardless of the input direction.

Prepared to suit non-rising multi-turn valves such as gate, globe or penstock valves.

FEATURES

- PROVEN ENGINEERED DESIGN
- GEARS SUPPORTED BETWEEN BEARINGS
- GREASE FILLED FOR LONG-LIFE
- RANGE OF GEARING RATIOS
- ROBUST DUCTILE IRON HOUSING
- INPUT PREPARED FOR ACTUATION
- DURABLE FUSION BONDED EPOXY COATING

TECHNICAL

- MAXIMUM OUTPUT TORQUE: 1900Nm
- INPUT & OUTPUT CONFIGURATION: ISO5210
- INGRESS PROTECTION: IP67
- MAX. TEMPERATURE: 120°C

OPTIONS

- BS5163 TAPERED STEM CAP
- HANDWHEEL (LOCKABLE ON REQUEST)
- ELECTRICAL ACTUATION
- IP68 ON REQUEST



REVERSE SPUR GEARBOX



TYPE	RATIO	WEIGHT kg	CODE	PRICE £
RGB F14/F14	1:2	11	RGB F14/F14	284
RGB F16/F14	1:4	22	RGB F16/F14	410
RGB F25/F14	1:4	50	RGB F25/F14	672

- 01
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HOW TO DO IT

AIR VALVE POSITIONING / SELECTION

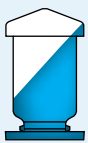
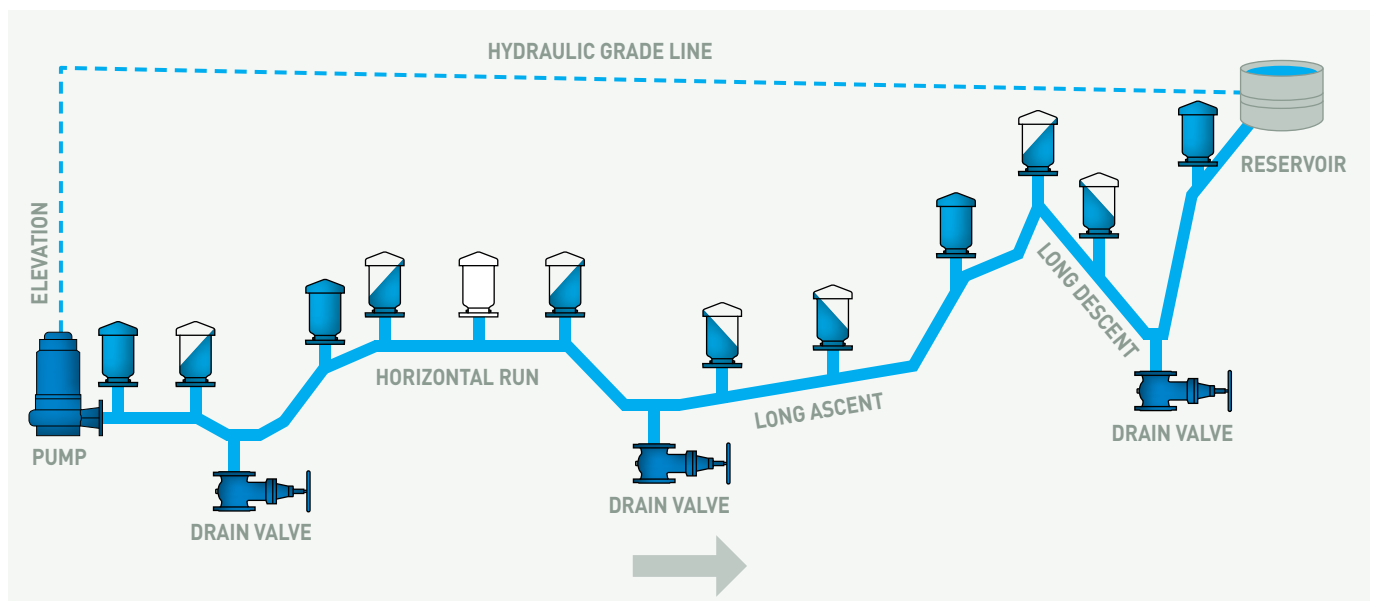
The presence of air in a pipeline and its impact on operations is probably one of the most misunderstood phenomena in our industry today. Air entrapment results in reduced efficiencies and increased system operating costs. Associated problems can include broken pumps, valves, pipes, increased corrosion activity as well as misleading instrumentation readings.

Air within a pipeline can be attributed to one or more of three primary sources. Firstly the line has not been fully excavated of air prior to initial start-up. Secondly water itself contains approximately 2% of air by volume, increasing to about 5% for sewage, therefore during operation air will settle out of the water. Finally mechanical equipment such as pumps and turbulence inducing pipe-fittings such as bends and tees.

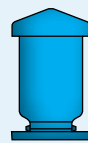
The three main fundamental air valve configurations:

- 1 - Single small orifice air valve (also known as single function air valve) - designed to release air pockets accumulated during working conditions to ensure operational efficiencies
- 2 - Single large orifice air valve (also known as a two function air valve) - designed to protect the pipeline during the draining and charging phases
- 3 - Double orifice air valve (also known as combination or three function air valve) - designed to protect the pipeline during the draining and charging phases together with venting of accumulated pockets during working conditions

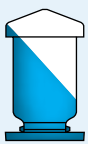
Consideration must be given to air valve positioning along the pipeline profile to maximise system efficiencies. The choice of air valve is based on various factors including profile, pipe material, transient effects and potential water hammer or surge. In the following example we consider the result of pump failure when only employing air valves for system protection.



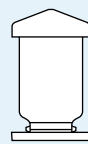
Three function air valve with integral rapid fill protection mechanism will avoid negative pressure conditions, allowing large volumes of air intake during pipe draining or in case of pump failure, providing at the same time protection against the damaging effects of water hammer caused by excessive air velocity. Will also ensure the air release of air pockets accumulated during working conditions.



Two function air valve with integral anti-hammer mechanism will avoid negative pressure conditions, allowing large intake of air during pipe draining or in case of pump failure, providing at the same time water hammer protection and controlled air outflow.



Three function air valve with integral rapid fill protection mechanism will avoid negative pressure conditions, allowing large volumes of air intake during pipe draining or in case of pump failure, providing at the same time protection against the damaging effects of water hammer caused by excessive air velocity. Will also ensure the air release of air pockets accumulated during working conditions.



Standard single large orifice air valve.

Aquaflow are able to offer hydraulic modelling analysis software detailing optimal valve sizing and positioning.

	SMALL ORIFICE	AIR / VACUUM	COMBINATION	COMBINATION WITH INTEGRAL SURGE ALLEVIATION MECHANISM	
 CLEAN WATER					
COMPACT WASTE WATER					
	FLANGED				

- 01
- 02
- 03
- 04
- 05
- 06
- 07
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- 09
- 10
- 11
- 12

HOW TO DO IT

FLANGING

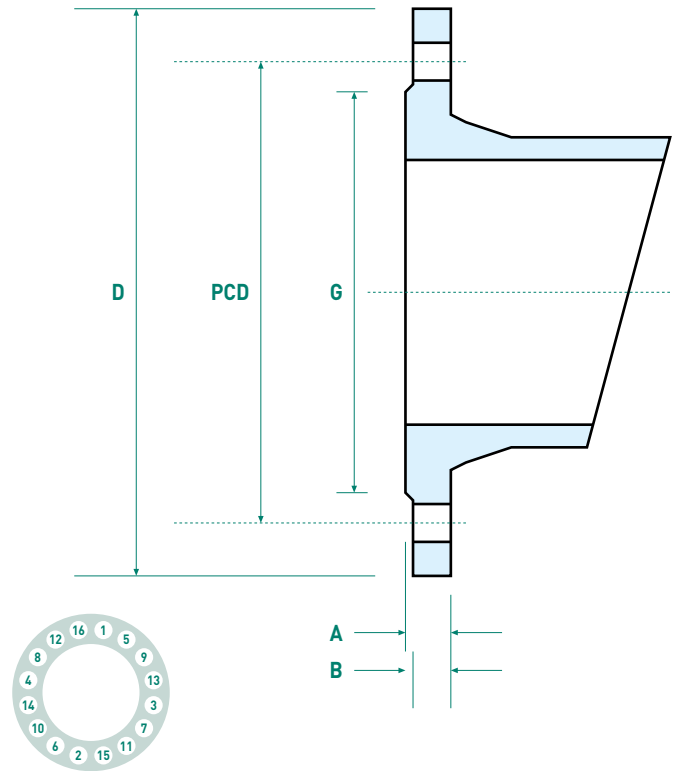
Pump, valve and fitting flange alignments are governed by BS EN 1092 which superseded BS 4504. Generally pumps, valves and fittings are supplied with flanges conforming to Table 10 (PN16) which are suitable for a maximum working pressure of 16 Bar.

The following information is offered as a guide to ensuring good joint integrity and avoiding environmental release.

The torques in the below table are based on using a 3mm thick 70 IRHD rubber gasket.

Jointing instructions

1. Ensure flanges and fasteners are clean and in good working conditions
2. Insert bolts 1 to 4 into one flange and position the gasket on bolts
3. Align flanges and support as required
4. Offer the adjoining flange to the bolts and hand tighten nuts
5. Insert remaining bolts and hand tighten nuts
6. Determine required bolt torque from below table
7. Using opposite quadrant sequence illustrated tighten as follows:
 - a. tighten nuts to 30% of estimated torque then,
 - b. tighten nuts to 60% of estimated torque then,
 - c. tighten nuts to 100% of estimated torque
8. Finally, tighten all nuts 100% of required torque in a clockwise direction



DN mm	D mm	G mm	A mm	B mm	PCD mm	HOLES NO.	DIA mm	*BOLT SIZE AND LENGTH mm	SPANNER SIZE ACROSS FLATS mm
50	165	98	19.0	16.0	125	4	19	M16 x 65	24
80	200	132	19.0	16.0	160	8	19	M16 x 65	24
100	220	156	19.0	16.0	180	8	19	M16 x 65	24
125	250	184	19.0	16.0	210	8	19	M16 x 65	24
150	285	211	19.0	16.0	240	8	23	M20 x 70	30
200	340	266	20.0	17.0	295	12	23	M20 x 70	30
250	400	319	22.0	19.0	355	12	28	M24 x 85	36
300	455	370	24.5	20.5	410	12	28	M24 x 85	36
350	520	432	26.5	22.5	470	16	28	M24 x 85	36
400	580	480	28.0	24.0	525	16	31	M27 x 100	41
450	640	548	30.0	26.0	585	20	31	M27 x 100	41
500	715	609	31.5	27.5	650	20	34	M30 x 110	46
600	840	720	36.0	31.0	770	20	37	M33 x 120	50
700	910	794	39.5	34.5	840	24	37	M33 x 130	50
800	1025	901	43.0	38.0	950	24	40	M36 x 140	55
900	1125	1001	46.5	41.5	1050	28	40	M36 x 140	55
1000	1255	1112	50.0	45.0	1170	28	43	M39 x 160	60
1100	1355	1218	53.5	48.5	1270	32	43	M39 x 160	60
1200	1485	1328	57.0	52.0	1390	32	49	M45 x 180	70



- 01
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- 11**
- 12



REFERENCE

01

02

03

04

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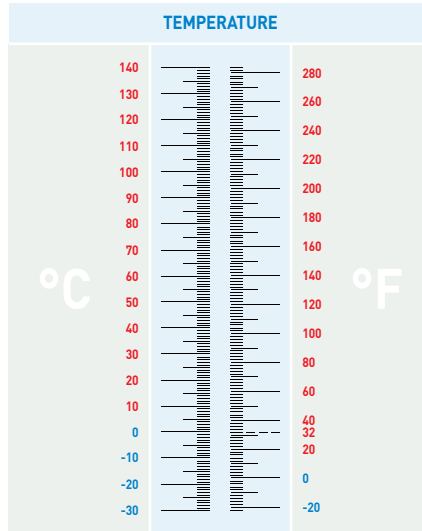
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WEIGHT		WEIGHT	
1mg	0.001g	1lb	0.454kg
1g	0.001g	1kg	1000g
1g	0.035oz	1kg	35.27oz
1oz	28.349g	1kg	2.205lb
1oz	0.0625lb	1 stone	14lb
1lb	16oz	1 tonne	1000kg

AREA	
1cm ²	0.155 inch ²
1 inch ²	6.452cm ²
1ft ²	144 inch ²
1ft ²	929.03 inch ²
1 yard ²	9ft ²
1m ²	10.764ft ²
1 acre	43,560ft ²
1 hectare	10,000m ²
1 hectare	2.471 ²
1km ²	100 hectares ²
1km ²	0.386 mile ²
1 mile ²	2.589km ²
1 mile ²	640 acres

NUMBER OF POLES	SYNCHRONOUS SPEED (Ns = min ⁻¹)
	f = 50Hz
2	3000
4	1500
6	1000
8	750
10	600
12	500
14	428
16	375
18	333
20	300



LENGTH	
1cm	0.155 inch ²
1mm	0.039 inch
1cm	0.394 inch
1 inch	2.54cm
1ft	0.3048m
1ft	12 inches
1 yard	3ft
1m	100cm
1m	3.28ft
1km	1000m
1km	0.621 miles
1m	5280ft
1m	1.609km
1 nautical mile	1.852km

AREA	
1cm ³	0.061m ³
1 inch ³	16.387cm ³
1ft ³	0.028m ³
1m ³	35.315ft ³
1m ³	1000 litres
1m ³	220 gallons
1 litre	0.035ft ³
1 litre	0.220 gallons
1 litre	0.001m ³
1 litre	1000cm ³
1 gallon	4.546 litres
1 gallon	0.005m ³

FLOW RATES		FLOW RATES	
GALLONS PER MINUTE x 4.545 = LITRES PER MINUTE		LITRES PER MINUTE x 0.22 = GALLONS PER MINUTE	
G.P.M.	L.P.M.	L.P.M.	G.P.M.
1	4.546	5	1.10
2	9.09	10	2.20
3	13.64	15	3.30
4	18.18	20	4.40
5	22.73	25	5.50
6	27.28	30	6.60
7	31.82	35	7.70
8	36.37	40	8.80
9	40.91	45	9.90
10	45.46	50	11.00

RELATION OF SPEED AND POLES

Motor speed is determined by the frequency of the power source and the number of poles. The speed at which the magnetic field operates is called 'synchronous speed'. This is expressed in the following formula:

$$N_s = \frac{120 \cdot f}{P} \text{ (min-1)}$$

It is suggested that the rated speed of the motor under a load be approximately 95% of the synchronous speed.

REFERENCE



BAR (kg PER cm ²)	METRES OF WATER	P.S.I.	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

BARS (kg per cm²): x 10 = METRES OF WATER / x 14.22 = POUNDS PER INCH² / x 32.81 = FEET OF WATER / ATMOSPHERES

MOTOR INFORMATION		
IP	PROTECTION AGAINST SOLID OBJECTS	
0	NO PROTECTION	
1	PROTECTED AGAINST SOLID OBJECTS UP TO 50mm, E.G. ACCIDENTAL TOUCH BY HANDS	
2	PROTECTS AGAINST SOLID OBJECTS UP TO 12mm, E.G. FINGERS	
3	PROTECTS AGAINST SOLID OBJECTS OVER 2.5mm, (TOOLS AND WIRES)	
4	PROTECTS AGAINST SOLID OBJECTS UP TO 1mm, (TOOL WIRES AND SMALL WIRES)	
5	PROTECTED AGAINST DUST (NO HARMFUL DEPOSIT)	
6	TOTALLY PROTECTED AGAINST DUST	

MOTOR INFORMATION		
IP	PROTECTION AGAINST SOLID OBJECTS	
0	NO PROTECTION	
1	PROTECTION AGAINST VERTICALLY FALLING DROPS OF WATER, E.G. CONDENSATION	
2	PROTECTED AGAINST DIRECT SPRAYS OF WATER UP TO 15° FROM VERTICAL	
3	PROTECTED AGAINST DIRECT SPRAYS OF WATER UP TO 60° FROM VERTICAL	
4	PROTECTED AGAINST WATER SPLASHING FROM ALL DIRECTIONS	
5	PROTECTED AGAINST LOW PRESSURE JETS OF WATER FROM ALL DIRECTIONS	
6	PROTECTED AGAINST STRONG JETS OF WATER, E.G. FOR USE ON SHIP DECKS	
7	PROTECTION AGAINST EFFECTS OF IMMERSION BETWEEN 15cm AND 1m	
8	PROTECTION AGAINST LONG PERIODS OF IMMERSION UNDER PRESSURE	

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