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From: **Mick Moreton-Clack**

Date: **28th April 2026**

To: **Paul Tittle**

Company: **Tully De'Ath Ltd**

T: **01342 828000 / 07739 265815**

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Your ref: **Little Winton, Keymer Road, Burgess Hill.**

Our ref: **WQ34956 Rev A**

Pages: **1 of 10**

***S100* 'PRIVATE' GRP STORM WATER PUMPING STATION at Little Winton, Keymer Road, Burgess Hill Drawing No: 1508-TUL-XX-XX-DR-C-51001. Rev D, dated 24.04.2026. Stage Preliminary.**

Following your recent enquiry and our subsequent correspondence; we have pleasure in enclosing details of our quotation based on the information supplied for the supply of a privately owned (non-adoptable) Storm Water GRP package pumping station, pumps, control panel set in an ***IP54*** rated enclosure, level controls, lifting chains, shackles, M&E installation, and commissioning for your consideration.

***S100* Storm Water GRP Package Pump Station**

Each Pump Rated at a min of 1.0 L/s to max 1.1 L/s (as calculated and specified by others).

We have selected a **1800mmØ diameter x 3000mm deep** (internal dimensions) GRP pump chamber based on the information and levels received. Please note that the GRP pump chamber is not a structural unit and that you will need to ensure a good solid concrete base to position the chamber on and it will need to be surrounded with concrete to protect it from any external forces or adverse ground conditions.

Storage Note: 24hr emergency storage is to be held in the upstream attenuation tanks.

The GRP chamber will come complete with dual 40mm internal diameter UPVC discharge pipework & brass valves including 2 x non-return valves and 1 x gate valve. Our pipework will terminate outside the chamber with a 40mm PE adaptor for others to connect onto the rising main. Included with the chamber is 1 x 160mmOD Osma type inlet socket, 1 x 110mmOD cable duct socket and 1 x 110mmOD vent duct socket. Suitable for standard PVC underground pipe connections only.

INCLUSION: We have included for the supply only of a 38 Tonne Rated access cover & frame, installation to be by others.

A minimum clear access opening of **1000mm x 775mm** will need to be formed within the cover slab for the initial installation as well as unhindered pump removal and installation for future maintenance.

It would be necessary for site / others to construct / install a 450mm brick neck / cover slab above the GRP chamber to independently support the access cover and frame and prevent direct loading on top of the chamber. The depth of this must be considered when defining the final pump station levels / depth.

The GRP chamber will be delivered direct to site for site to offload and install in accordance with the installation guidelines including making all inlet, cable duct (with draw cord) and vent pipe connections and the rising main connection. Offloading, installation, and all necessary civil work is the responsibility of the civil contractor / ground worker.

It is the responsibility of the civil contractor / ground worker to check the ground conditions and water table and to determine whether the installation of a GRP chamber is suitable.

The external pressure on the GRP chamber must be taken into consideration and the groundwater must be controlled during the excavation and installation process to ensure that the excavation is dry and the installation of the chamber watertight.

If there are any doubts or concerns regarding the excavation and the installation of a GRP chamber, then we would suggest the install of pre-cast concrete rings as a more suitable alternative.

We have based this quotation on the following information and levels. *We would ask you to advise us if any of the information detailed below has been interpreted incorrectly as this could affect the operation and performance of the pump station and we may have to revise this quotation.*

Storm Water Pump Station *S100*

Pump Station Cover Level	: 51.500
Level below slab – Slab 450mm Thick	: 51.050
Pump Station Base Level	: 48.050
Rising Main IL at Pump Station	: 50.050
Pump Station Lowest Inlet IL	: 48.925
IL at Receiving Discharge Manhole	: 52.650
Full Horizontal Length of the Rising Main	: 100m (Max.)

***S100* TENDER FOR SUBMERSIBLE STORM WATER GRP PUMPING STATION**

Number of Pump(s)	: Two (2)
Pump Type	: Sulzer MF404D
Explosion-proof	: No – suitable for installation in a Non-hazardous area only
Capacity per Pump (approx.)	: Min 1.0 L/s to Max 1.1 L/s (as calculated and specified by others)
Maximum Solids Capacity	: 40mmØ free passage
Impeller Design	: Vortex
Motor Rating (P2)	: 0.8 kW
Motor Speed	: 2660 r/min
Supply Voltage	: <u>400v – Three Phase + Neutral</u>
Full Load Current	: 2.01 A
Method of Starting	: DOL
Level Control	: Float switches x 4
Control Sequence	: Duty / Standby
Length of Cable	: 20 metres
Pump Chamber	: GRP 1800mmØ x 3000mm deep (internal dims) + 450mm Neck/Slab.
Access Cover	: <u>1000x775mm</u> minimum clear access opening (Cover Placement- Offset).
Pump Outlet Branch	: G2"
Pump Station Pipework	: 50mm uPVC grey pipe BS/EN1452 & BS4346
Rising Main (by others)	: <u>50mmOD PE80 SDR11 (Internal Diameter of approx. 40.4mm)</u>
Separate Valve Chamber	: No - Valves installed in pump chamber
Final Discharge	: 50mm PE adaptor terminating inside the chamber

IMPORTANT NOTE: The foul pumps offered have a maximum solids handling capacity of 40mmØ and are designed to transfer bodily waste, toilet paper and household wash waters only. They are not designed to transfer sanitary towels, condoms, cotton wool and other fibrous items such as nappies and baby/wet-wipes, or any other foreign objects, which if flushed down the system might cause blockages within the pumps, station pipework & valves, rising main and downstream sewers.

***S100* PRICE / COMMERCIAL SCHEDULE**

***S100* Storm Water Pump Station PRICE:**

Supply/deliver/M&E installation and Commissioning only of a GRP package pumping station c/w dual pump, control panel, level controls and lifting chains, amounts to: £7,915.00 + VAT

If we are unable to commission on the same day as installation and a return visit is required to commission the pump station, an additional charge of £850.00 + VAT will apply.

***F100* 'PRIVATE' GRP FOUL WATER PUMPING STATION at Little Winton, Keymer Road, Burgess Hill Drawing No: 1508-TUL-XX-XX-DR-C-51001. Rev D, dated 24.04.2026. Stage Preliminary.**

Following your recent enquiry and our subsequent correspondence; we have pleasure in enclosing details of our quotation based on the information supplied for the supply of a privately owned (non-adoptable) Foul Water GRP package pumping station, pumps, control panel set in an ***IP54*** rated enclosure, level controls, lifting chains, shackles, M&E installation, and commissioning for your consideration.

Note: ***F100*** & ***F5*** will have GSM interlocks linking the two pump stations via a wireless signal. The downstream station sends a status signal (healthy/fault) to the upstream station control panel. If the downstream station is operating normally, the upstream station is allowed to pump as usual. If the downstream station goes into fault (e.g. high level alarm, pump failure, power loss), a GSM signal is sent to the upstream station, which then inhibits (stops) its pumps to prevent overloading or flooding the downstream system. Once the downstream station returns to normal operation, the GSM signal resets and the upstream station automatically resumes pumping.

***F100* Foul Water GRP Package Pump Station**

Each Pump Rated at a minimum of 3.8 L/s (to enable self-cleansing of the rising main).

We have selected a **1500mmØ diameter x 2000mm deep** (internal dimensions) GRP pump chamber based on the information and levels received. Please note that the GRP pump chamber is not a structural unit and that you will need to ensure a good solid concrete base to position the chamber on and it will need to be surrounded with concrete to protect it from any external forces or adverse ground conditions.

Storage Note: 24hr emergency storage within the Foul Water pump chamber has been calculated based upon 5 x People using 150L Per Person Per Day. Storage has been calculated from below the lowest incoming inlet IL(51.175) to pump stop IL(50.475) which amounts to approx. 0.75m³ (as calculated and specified by others).

The GRP chamber will come complete with dual 80mm external diameter UPVC discharge pipework & brass valves including 2 x non-return valves and 1 x gate valve. Our pipework will terminate outside the chamber with a 90mm PE adaptor for others to connect onto the rising main. Included with the chamber is 1 x 110mmOD Osma type inlet socket, 1 x 110mmOD cable duct socket and 1 x 110mmOD vent duct socket. Suitable for standard PVC underground pipe connections only.

INCLUSION: We have included for the supply only of a 38 Tonne Rated access cover & frame, installation to be by others.

A minimum clear access opening of **1000mm x 775mm** will need to be formed within the cover slab for the initial installation as well as unhindered pump removal and installation for future maintenance.

It would be necessary for site / others to construct / install a 300mm brick neck / cover slab above the GRP chamber to independently support the access cover and frame and prevent direct loading on top of the chamber. The depth of this must be considered when defining the final pump station levels / depth.

The GRP chamber will be delivered direct to site for site to offload and install in accordance with the installation guidelines including making all inlet, cable duct (with draw cord) and vent pipe connections and the rising main connection. Offloading, installation, and all necessary civil work is the responsibility of the civil contractor / ground worker.

It is the responsibility of the civil contractor / ground worker to check the ground conditions and water table and to determine whether the installation of a GRP chamber is suitable.

The external pressure on the GRP chamber must be taken into consideration and the groundwater must be controlled during the excavation and installation process to ensure that the excavation is dry and the installation of the chamber watertight.

If there are any doubts or concerns regarding the excavation and the installation of a GRP chamber, then we would suggest the install of pre-cast concrete rings as a more suitable alternative.

We have based this quotation on the following information and levels. *We would ask you to advise us if any of the information detailed below has been interpreted incorrectly as this could affect the operation and performance of the pump station and we may have to revise this quotation.*

Storm Water Pump Station *F100*

Pump Station Cover Level	: 52.475
Level below slab – Slab 300mm Thick	: 52.175
Pump Station Base Level	: 50.175
Rising Main IL at Pump Station	: 51.275
Pump Station Lowest Inlet IL	: 51.175
IL at Receiving Discharge Manhole	: 54.225
Full Horizontal Length of the Rising Main	: 15m (Max.)

***F100* TENDER FOR SUBMERSIBLE FOUL WATER GRP PUMPING STATION**

Number of Pump(s)	: Two (2)
Pump Type	: Fmax 080-150
Explosion-proof	: No – suitable for installation in a Non-hazardous area only
Capacity per Pump (approx.)	: Min 3.8 L/s to Max 3.8 L/s (to enable self-cleansing of the rising main)
Maximum Solids Capacity	: 80mmØ free passage
Impeller Design	: Vortex
Motor Rating (P2)	: 1.67 kW
Motor Speed	: 1370 r/min
Supply Voltage	: <u>400v – Three Phase + Neutral</u>
Full Load Current	: 3.71 A
Method of Starting	: DOL
Level Control	: Float switches x 4
Control Sequence	: Duty / Standby with interlock – inhibit with pump station *F5*
Length of Cable	: 20 metres
Pump Chamber	: GRP 1500mmØ x 2000mm deep (internal dims) + 300mm Neck/Slab.
Access Cover	: <u>1000x775mm</u> minimum clear access opening (Cover Placement- Offset).
Pump Outlet Branch	: DN80
Pump Station Pipework	: 80mm uPVC grey pipe BS/EN1452 & BS4346
Rising Main (by others)	: 90mmOD PE100 SDR17 (Internal Diameter of approx. 78.7mm)
Separate Valve Chamber	: No - Valves installed in pump chamber
Final Discharge	: 90mm PE adaptor terminating inside the chamber

IMPORTANT NOTE: The foul pumps offered have a maximum solids handling capacity of 80mmØ and are designed to transfer bodily waste, toilet paper and household wash waters only. They are not designed to transfer sanitary towels, condoms, cotton wool and other fibrous items such as nappies and baby/wet-wipes, or any other foreign objects, which if flushed down the system might cause blockages within the pumps, station pipework & valves, rising main and downstream sewers.

***F100* PRICE / COMMERCIAL SCHEDULE**

***F100* Foul Water Pump Station PRICE:**

Supply/deliver/M&E installation and Commissioning only of a GRP package pumping station c/w dual pump, control panel, level controls and lifting chains, amounts to: £10,704.00 + VAT

If we are unable to commission on the same day as installation and a return visit is required to commission the pump station, an additional charge of £850.00 + VAT will apply.

***F5* 'PRIVATE' GRP FOUL WATER PUMPING STATION at Little Winton, Keymer Road, Burgess Hill Drawing No: 1508-TUL-XX-XX-DR-C-51001. Rev D, dated 24.04.2026. Stage Preliminary.**

Following your recent enquiry and our subsequent correspondence; we have pleasure in enclosing details of our quotation based on the information supplied for the supply of a privately owned (non-adoptable) Foul Water GRP package pumping station, pumps, control panel set in an ***IP54*** rated enclosure, level controls, lifting chains, shackles, M&E installation, and commissioning for your consideration.

Note: ***F5*** & ***F100*** will have GSM interlocks linking the two pump stations via a wireless signal. The downstream station sends a status signal (healthy/fault) to the upstream station control panel. If the downstream station is operating normally, the upstream station is allowed to pump as usual. If the downstream station goes into fault (e.g. high level alarm, pump failure, power loss), a GSM signal is sent to the upstream station, which then inhibits (stops) its pumps to prevent overloading or flooding the downstream system. Once the downstream station returns to normal operation, the GSM signal resets and the upstream station automatically resumes pumping.

***F5* Foul Water GRP Package Pump Station**

Each Pump Rated at a min of 3.8 L/s to max 4.5 L/s (to enable self-cleansing of the rising main).

We have selected a **2100mmØ diameter x 2500mm deep** (internal dimensions) GRP pump chamber based on the information and levels received. Please note that the GRP pump chamber is not a structural unit and that you will need to ensure a good solid concrete base to position the chamber on and it will need to be surrounded with concrete to protect it from any external forces or adverse ground conditions.

Storage Note: 24hr emergency storage within the Foul Water pump chamber has been calculated based upon 21 x People using 150L Per Person Per Day. Storage has been calculated from below the lowest incoming inlet IL(53.750) to pump stop IL(52.750) which amounts to approx. 3.4m³ (as calculated and specified by others).

The GRP chamber will come complete with dual 80mm internal diameter UPVC discharge pipework & brass valves including 2 x non-return valves and 1 x gate valve. Our pipework will terminate outside the chamber with a 90mm PE adaptor for others to connect onto the rising main. Included with the chamber is 2 x 110mmOD Osma type inlet socket, 1 x 110mmOD cable duct socket and 1 x 110mmOD vent duct socket. Suitable for standard PVC underground pipe connections only.

INCLUSION: We have included for the supply only of a 38 Tonne Rated access cover & frame, installation to be by others.

A minimum clear access opening of **1000mm x 775mm** will need to be formed within the cover slab for the initial installation as well as unhindered pump removal and installation for future maintenance.

It would be necessary for site / others to construct / install a 450mm brick neck / cover slab above the GRP chamber to independently support the access cover and frame and prevent direct loading on top of the chamber. The depth of this must be considered when defining the final pump station levels / depth.

The GRP chamber will be delivered direct to site for site to offload and install in accordance with the installation guidelines including making all inlet, cable duct (with draw cord) and vent pipe connections and the rising main connection. Offloading, installation, and all necessary civil work is the responsibility of the civil contractor / ground worker.

It is the responsibility of the civil contractor / ground worker to check the ground conditions and water table and to determine whether the installation of a GRP chamber is suitable.

The external pressure on the GRP chamber must be taken into consideration and the groundwater must be controlled during the excavation and installation process to ensure that the excavation is dry and the installation of the chamber watertight.

If there are any doubts or concerns regarding the excavation and the installation of a GRP chamber, then we would suggest the install of pre-cast concrete rings as a more suitable alternative.

We have based this quotation on the following information and levels. *We would ask you to advise us if any of the information detailed below has been interpreted incorrectly as this could affect the operation and performance of the pump station and we may have to revise this quotation.*

Storm Water Pump Station *F5*

Pump Station Cover Level	: 55.400
Level below slab – Slab 450mm Thick	: 54.950
Pump Station Base Level	: 52.450
Rising Main IL at Pump Station	: 53.950
Pump Station Lowest Inlet IL	: 53.750
IL at Receiving Discharge Manhole	: 61.300
Full Horizontal Length of the Rising Main	: 75m (Max.)

***F5* TENDER FOR SUBMERSIBLE FOUL WATER GRP PUMPING STATION**

Number of Pump(s)	: Two (2)
Pump Type	: Sulzer XFP80C VX
Explosion-proof	: No – suitable for installation in a Non-hazardous area only
Capacity per Pump (approx.)	: Min 3.8 L/s to Max 4.5 L/s (to enable self-cleansing of the rising main)
Maximum Solids Capacity	: 80mmØ free passage
Impeller Design	: Vortex
Motor Rating (P2)	: 2.95 kW
Motor Speed	: 1440 r/min
Supply Voltage	: <u>400v – Three Phase + Neutral</u>
Full Load Current	: 6.4 A
Method of Starting	: DOL
Level Control	: Float switches x 4
Control Sequence	: Duty / Standby with interlock – inhibit with pump station *F100*
Length of Cable	: 20 metres
Pump Chamber	: GRP 2100mmØ x 2500mm deep (internal dims) + 450mm Neck/Slab.
Access Cover	: <u>1000x775mm</u> minimum clear access opening (Cover Placement- Central).
Pump Outlet Branch	: DN80
Pump Station Pipework	: 80mm uPVC grey pipe BS/EN1452 & BS4346
Rising Main (by others)	: 90mmOD PE100 SDR17 (Internal Diameter of approx. 78.7mm)
Separate Valve Chamber	: No - Valves installed in pump chamber
Final Discharge	: 90mm PE adaptor terminating inside the chamber

IMPORTANT NOTE: The foul pumps offered have a maximum solids handling capacity of 80mmØ and are designed to transfer bodily waste, toilet paper and household wash waters only. They are not designed to transfer sanitary towels, condoms, cotton wool and other fibrous items such as nappies and baby/wet-wipes, or any other foreign objects, which if flushed down the system might cause blockages within the pumps, station pipework & valves, rising main and downstream sewers.

***F5* PRICE / COMMERCIAL SCHEDULE**

***F5* Foul Water Pump Station PRICE:**

Supply/deliver/M&E installation and Commissioning only of a GRP package pumping station c/w dual pump, control panel, level controls and lifting chains, amounts to: £13,869.00 + VAT

If we are unable to commission on the same day as installation and a return visit is required to commission the pump station, an additional charge of £850.00 + VAT will apply.

SPECIFICATION FOR SUBMERSIBLE PUMPS AND ACCESSORIES

PUMPS:

The watertight ***IP68*** fully flood-proof motor and the hydraulic section form a compact robust unit. The rotor shaft is supported in lubricated for life ball bearings.

Shaft sealing between motor and hydraulic section by means of high-quality sealing unit using a silicon carbide mechanical seal, independent of direction of rotation and resistant to temperature shock. Motor side – oil lubricated lip seal

Materials of Construction:

Motor housing	: Cast iron
Motor shaft	: Stainless steel
Volute	: Cast iron
Impeller	: Cast iron

AUTO COUPLING SYSTEM

To allow easy removal of pumpsets from wet well for maintenance purposes incorporating 90° duckfoot pedestal / bend, guide rail top mounting bracket and guide rail adaptor to pump discharge connection. Also included galvanised mild steel guide rail and suitably rated galvanised lifting chain according to sump depth.

PIPES AND VALVES

Each pump fitted with individual delivery pipes complete with non-return valves terminating in a common isolation valve and discharge pipe at high level for connection to the rising main by others.

LEVEL CONTROLS

Encapsulated non – mercury floatswitches complete with counterweights and suspension brackets.

***S100* CONTROL PANEL**

Qty 1 Dual pump 415v control panel in an ***IP54*** rated mild steel dust and damp protected enclosure, **suitable for indoor wall-mounting only.**

Control panel includes:

- Door interlocked isolator
- Motor fuses
- DOL Contactor starters
- Hand/Off/Auto selector switches
- Supply on indication
- Individual pump run and trip lamps
- High-level alarm buzzer
- 3 x VFC (Common Pump Fail & HLA) – for building into BMS system by others

***F100* & *F5* CONTROL PANELS**

Qty 2 Dual pump 415v control panel in an ***IP54*** rated mild steel dust and damp protected enclosure, **suitable for indoor wall-mounting only.**

Control panel includes:

- Door interlocked isolator
- Motor fuses
- DOL Contactor starters
- Hand/Off/Auto selector switches
- Supply on indication
- Individual pump run and trip lamps
- High-level alarm buzzer
- 3 x VFC (Common Pump Fail & HLA) – for building into BMS system by others
- Inhibit / Interlock
- GSM Telemetry Module and SIM. **Note:** Use of GSM telemetry is dependent on signal/network strength at the control panel location, it is the responsibility of the end user to ensure the Sim card is always in credit.

OPTIONAL EXTRAS (if required):

- 1) **MSK1 Green mild steel kiosk** (concrete plinth mounted by others) to house the control panel externally – 1250mm(h) X 750mm(w) X 400mm(d) c/w high level beacon and guard. **Extra £495.00 + VAT.** **Note:** Not large enough to house electricity meters. If you require meters to be installed, please see below for larger kiosk.
- 2) **MSK2 Green mild steel kiosk** (concrete plinth mounted by others) to house the control panel externally – 1250mm(h) X 1250mm(w) X 400mm(d) c/w high level beacon and guard. **Extra £795.00 + VAT.** **Note:** If you require meters to be installed in the Kiosk you will find the MSK1 Kiosk is not large enough to house electricity meters, please order the larger kiosk MSK2.

We recommend that the control panel kiosk is installed in an unobstructed area as close to the pump chamber as possible and within clear and direct eye line for servicing and maintenance purposes.

We have allowed for 20m power cables on the pumps and 20m cables on the level controls on the assumption / understanding that the maximum horizontal straight distance from the pump chamber to the control panel kiosk will be for *S100* 17m, *F100* 18m and *F5* 17m, Max. If 20m long cables will not be long enough, then we can provide additional costs for extended cable lengths if necessary up to a maximum of 30m.

NOTES & ASSUMPTIONS:

- We have allowed for our standard operating and maintenance manual available electronically only, issued after final commissioning and on receipt of final payment.
- We have included for M&E installation and commissioning to be made within one continuous visit. If any return visits are required for any reason, an additional charge would be invoiced.
- It is assumed, unless otherwise advised, that all access to site, the pump station and into the pump chamber will be fully unhindered. Should access be prohibited for any reason, additional costs may be incurred.
- As standard, all equipment supplied and installed carries a 12-month manufacturer's warranty from the date of commissioning (not practical completion), covering manufacturing defects only.
- We have based our pump selection on the assumption that a **400v (Three Phase + Neutral)** power supply will be available.
- We exclude the supply and installation of the rising mains which must be as follows -
***S100* Storm Water Rising Main- 50mmOD PE80 SDR11 (Internal Diameter of approx. 40.4mm).**
***F100* Foul Water Rising Main- 90mmOD PE100 SDR17 (Internal Diameter of approx. 78.7mm)**
***F5* Foul Water Rising Main- 90mmOD PE100 SDR17 (Internal Diameter of approx. 78.7mm)**
 with all rising main connections to be made by others.

- It is assumed, unless otherwise advised, that the rising main is continuously ascending from the pump chamber up to the final discharge manhole.

PUMP STATION EXCLUSIONS:

- **The supply, installation and testing of all rising main pipework, and all connections.**
 - **We exclude all civil works and will advise of civil requirements including making good, cable duct with draw cord and supply and installation of vent pipework.**
 - **Civils / structural design (by others).**
 - **Design & routing of vent pipe (by others).**
 - **It will be the responsibility of the contractor to install a 100mmØ cable duct (with draw cord) from the pump chamber back to the control panel location.**
 - **We exclude the supply/connection of the incoming mains electrical cable to our control panel.**
 - **Pump Station site specific GA drawings (Tank Data Sheet for GRP chamber approval only).**
 - **Extended and Collateral warranties.**
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LEAD-TIMES & ORDERING OF EQUIPMENT:

On receipt of an official order/instruction, unless you instruct us within 1 week not to do so, we will promptly order key items of equipment such as the pumps and control panel/kiosks to prevent further price increases and delays due to long lead-times. On delivery of that equipment, you will then be invoiced, and a vesting certificate will be provided.

We would require notice of your required dates for M&E installation to allow us to schedule our engineers and ensure that all equipment has arrived in time from our suppliers and manufacturers. Exact installation dates to be confirmed once orders have been placed and we have received confirmation from the suppliers and manufacturers of their lead times at time of order.

M&E Installation – typically 8/10 working weeks (subject to confirmation at time of order)

Please note that the GRP storage tank is not a structural unit and that you will need to ensure a good solid concrete base to position the chamber on and will need to be surrounded with concrete to protect it from any external forces or adverse ground conditions.

DELIVERY:

GRP pump chamber approx. **5/6 working weeks** from receipt of final drawing approval. We will endeavour to issue a manufacturers drawing within **1 working week** of receiving an official order.

All off-loading by others. Standard delivery only; does not include for any special delivery requirements and certifications i.e. FORS / CLOCS registered etc. Remaining equipment and M&E installation to follow.

Note: We will require notice of at least 72 hours to abort any pre-arranged deliveries. Please also note that delayed deliveries will then incur additional storage and abortive/transport charges.

PRICES & VALIDITY: Strictly nett, excluding VAT and valid for acceptance for **30 days** from date of issue.

Due to the continuous increases in raw materials / transportation costs throughout our industry in 2026 our prices are valid for a maximum period of 30 days from the date of our quotation.

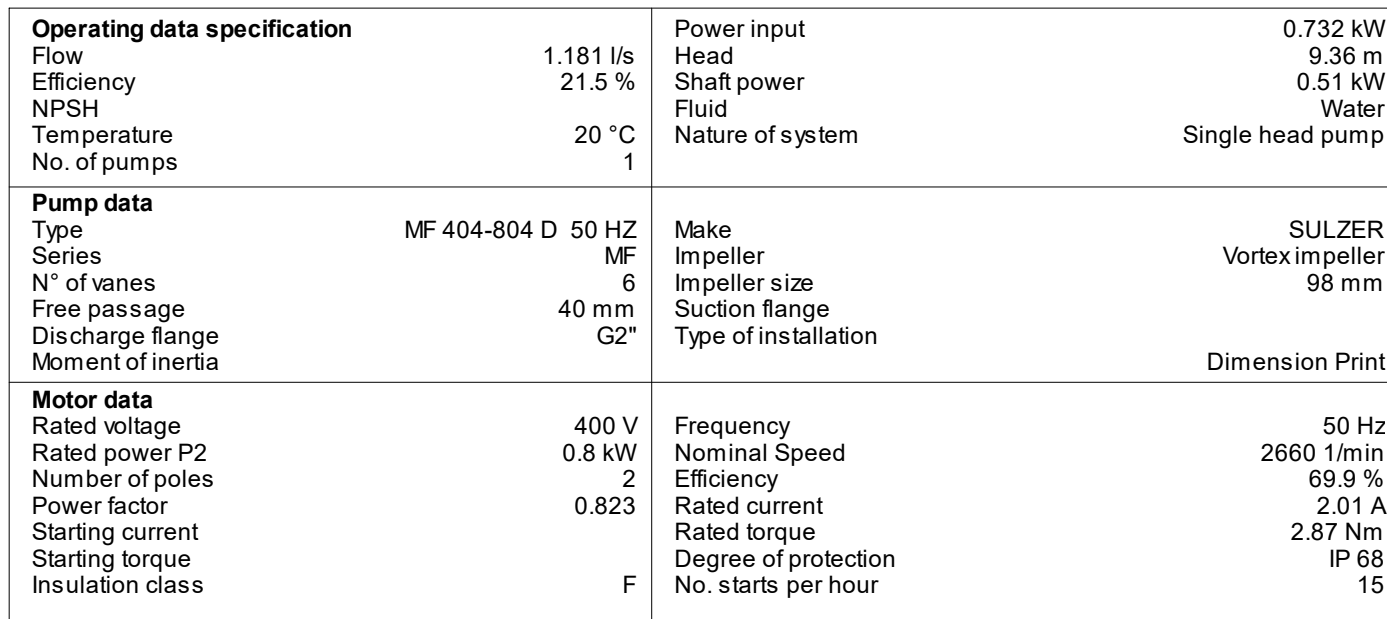
New HMRC legislation for Domestic Reverse Charge VAT came into effect on the 1st of March 2021 and it is your obligation to make us aware that you are an end user or intermediary supplier and the VAT should be charged in the normal way instead of being subject to a reverse charge.

PAYMENT TERMS: To be confirmed upon satisfactory credit checks.

EXCLUSIONS: **Payment retentions, liquidated & consequential damages and performance bonds..**

TERMS AND CONDITIONS: Willow Pumps Ltd Standard Terms and Conditions would apply including title of goods until paid for in full and excludes retentions and liquidated damages.

<u>Issue</u>	<u>Date</u>	<u>Comments</u>
1 st Issue	24.04.2024	Initial Quotation GRP Package Pump Stations
Rev A	28.04.2026	Updated to latest drawings

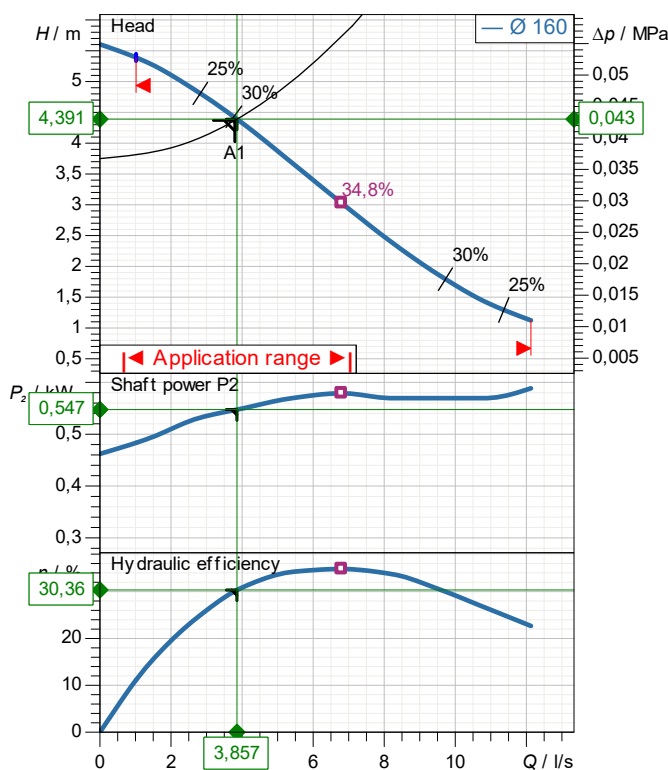


Data sheet: technical data

Project name	Untitled project 2026-04-27 14:56	Item-No.	
Project ID		Design	Submersible dirty water motor pumps
		Type / Coding	Amarex Fmax 080-150/016 F 4 US G
Customer		Company	
Contact		Contact	
E-mail		E-mail	
Phone		Phone	

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demand data

Flow	3,80 l/s
Total head	4,37 m
Geodetic head	3,75 m
Media	Water
Liquid temperature	20 °C

Pump data

Make	KSB
Type	Amarex Fmax 080-150/016 F 4 US G
Design	Submersible dirty water mo
Specific design	Single pump
No. of pumps	1
Standby pump	No
Max. fluid temperature	40 °C

Hydraulic data (Duty point)

Flow	3,86 l/s
Total head	4,39 m

Material / sealing element

Casing	Grey cast iron EN-GJL-250 (A48 Class 35B)
Cover	Grey cast iron EN-GJL-250 (A48 Class 35B)
Suction cover material	Grey cast iron EN-GJL-250 (A48 Class 35B)
Discharge cover	Grey cast iron EN-GJL-250 (A48 Class 35B)
Shaft	1.4021
Impeller	Grey cast iron EN-GJL-250 (A48 Class 35B)
O-Rings	Nitrile-butadiene-rubber NBR

Dimensions

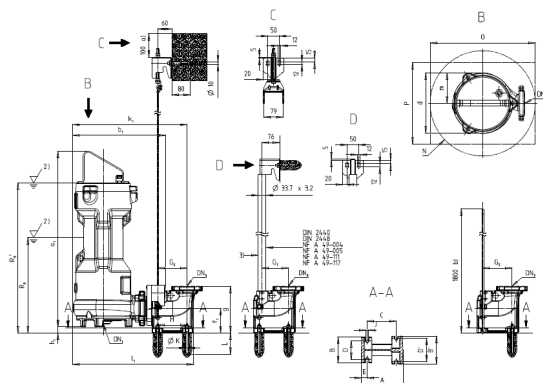
Discharge flange standard	DN 80
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Rated motor data

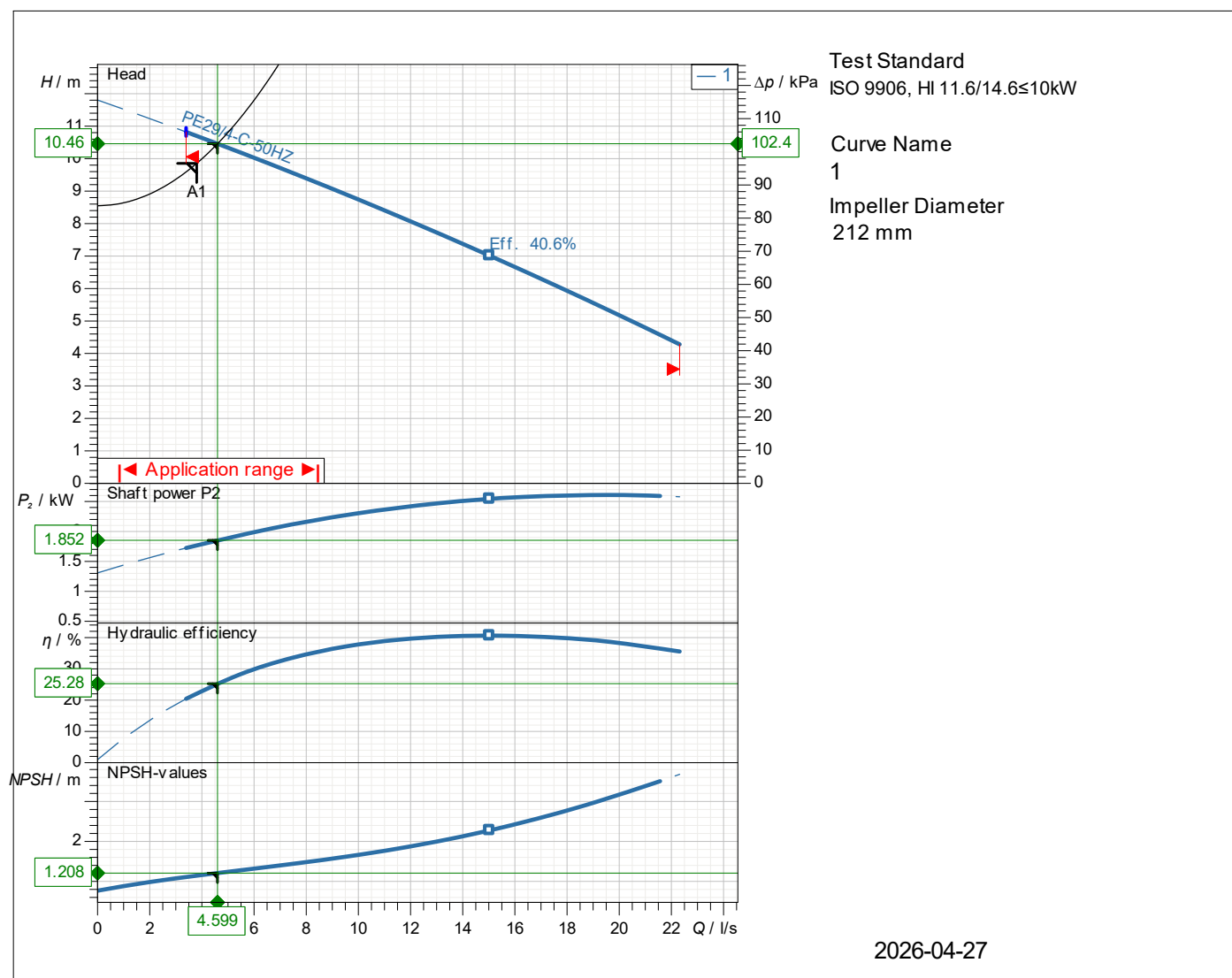
Power input (P1)	2,13 kW
Rated power (Pn)	1,67 kW
Speed	1.370 1/min
Rated voltage	400 V
Rated current (In)	3,71 A

Product information

Identnummer	39120131
Weight loaded	68 kg
Gross price	3.239,43 GBP
PL2026-01-01	
Price group	



XFP 80C VX 50HZ



Operating data specification		Power input	2.17 kW
Flow	4.599 l/s	Head	10.5 m
Efficiency	25.3 %	Shaft power	1.85 kW
NPSH	1.21 m	Fluid	Water
Temperature	20 °C	Nature of system	Single head pump
No. of pumps	1		
Pump data			
Type	XFP 80C VX 50HZ	Make	SULZER
Series	XFP PE1-PE3	Impeller	Vortex impeller
N° of vanes	6	Impeller size	212 mm
Free passage	80 mm	Suction flange	DN80
Discharge flange	DN80	Type of installation	Wet well installation with pedestal
Moment of inertia	0.0095 kg m ²		
Motor data			
Rated voltage	400 V	Frequency	50 Hz
Rated power P2	2.95 kW	Nominal Speed	1440 1/min
Number of poles	4	Efficiency	87.8 %
Power factor	0.76	Rated current	6.4 A
Starting current	36 A	Rated torque	19.6 Nm
Starting torque	28.4 Nm	Degree of protection	IP 68
Insulation class	H	No. starts per hour	15

**Pump Station Maintenance Quotation
(Private – non adoptable)**

<u>SITE NAME:</u>		Little Winton, Keymer Road, Burgess Hill.			WQ34956 Rev A
<u>PUMP STATION</u>	<u>PUMP TYPE & QUANTITY</u>	<u>CHAMBER TYPE / SIZE</u>	<u>MOTOR RATINGS</u>	<u>SERVICE VISITS PER ANNUM</u>	<u>TOTAL COST PER ANNUM</u>
1 x *S100* GRP Storm Water Pump Station	2 x Sulzer MF404D	GRP Chamber 1800mmØ x 3000mm deep	0.8 kW / 2.01A DOL 400v / Three Phase	Storm Water 1 x Major Annual 1 x Major Annual	£2,878.00 + VAT / Per Annum <i>Price does not include 12 months SIM top up for pump stations *F100* & *F5* with inhibit interlocks installed.</i>
1 x *F100* GRP Foul Water Pump Station c/w inhibit interlock	2 x Amarex Fmax 080-150	GRP Chamber 1500mmØ x 2000mm deep	1.67 kW / 3.71A DOL 400v / Three Phase	Foul Water 1 x Major Annual 2 x Minor Interim	
1 x *F5* GRP Foul Water Pump Station c/w inhibit interlock	2 x Sulzer XFP80CVX	GRP Chamber 2100mmØ x 2500mm deep	2.95 kW / 6.4A DOL 400v / Three Phase	1 x Major Annual	
<u>OPTIONAL COSTS:</u>	Remote pump station monitoring GSM Telemetry Unit c/w antenna & SIM card – includes remote monitoring for first 24 months				£1,305.00 + VAT (additional per pump station if required)
	Telemetry Remote Monitoring – Additional 12 months (after first 24 months)				£200.00 + VAT / per annum (additional per pump station if required)
Note: If the telemetry unit is ordered after the manufacture of the control panel and after M&E Installation an additional cost of £850.00 + VAT would be applicable to re-attend site to install the Telemetry unit.					
<u>SCOPE OF WORK:</u>	To carry out routine servicing & inspection of the above pump station at the above frequency and cost.				
<u>TERMS & CONDITIONS</u>					
1. Willow Pumps Limited Terms & Conditions apply. 2. All prices and rates are exclusive of VAT. 3. Net 30 days 4. This quotation is valid for 30 days			5. Callouts are chargeable, extra to above costs. 6. The limit of chargeable replacements without order is £150. 7. Renewal of contract will be automatic subject to inflation. 8. Termination of contract is subject to 3-month notification		

We accept the above quotation – Name (PRINT): _____ Date: _____

Signature: _____ On behalf of: _____

INVOICE ADDRESS	
ORDER NUMBER	
SITE POSTCODE	
SITE CONTACT	
SITE TEL NUMBER	

NOTES:

Client to confirm if visits to be pre-arranged with site.

Client to provide clear and safe access to the pump chamber and control panel and provide adequate parking within a reasonable distance from the pump chamber.

Please also provide any other information you think may be helpful/important to our office/engineers.

EMERGENCY CALL OUT

Call out rates to contracted service customers:

Description	Rate
Emergency Call Out – In Hours – Mon – Fri 08:00am – 4pm	£275.00 + VAT (Up to & Inc 4 hours on site)
Additional Hours – In Hours – Mon – Fri 08:00am – 4pm	£68.75 + VAT (Per Hour thereafter 4 hours on site)
Emergency Call Out – Out of Hours - Mon – Fri 4pm – 08:00am	£360.00 + VAT (Up to & Inc 4 hours on site)
Additional Hours – Out of Hours - Mon – Fri 4pm – 08:00am	£90.00 + VAT (Per Hour thereafter 4 hours on site)
Emergency Call Out – Out of Hours – Saturday (All Day)	£360.00 + VAT (Up to & Inc 4 hours on site)
Additional Hours – Out of Hours – Saturday (All Day)	£90.00 + VAT (Per Hour thereafter 4 hours on site)
Emergency Call Out – Out of Hours – Sunday & Bank Holidays (All Day)	£470.00 + VAT (Up to & Inc 4 hours on site)
Additional Hours – Out of Hours – Sunday & Bank Holidays (All Day)	£117.50 + VAT (Per Hour thereafter 4 hours on site)

Non contracted customers are as follows:

Description	Rate
Emergency Call Out – In Hours – Mon – Fri 08:00am – 4pm	£360.00 + VAT (Up to & Inc 4 hours on site)
Additional Hours – In Hours – Mon – Fri 08:00am – 4pm	£90.00 + VAT (Per Hour thereafter 4 hours on site)
Emergency Call Out – Out of Hours - Mon – Fri 4pm – 08:00am	£470.00 + VAT (Up to & Inc 4 hours on site)
Additional Hours – Out of Hours - Mon – Fri 4pm – 08:00am	£117.50 + VAT (Per Hour thereafter 4 hours on site)
Emergency Call Out – Out of Hours – Saturday (All Day)	£470.00 + VAT (Up to & Inc 4 hours on site)

<i>Additional Hours – Out of Hours – Saturday (All Day)</i>	<i>£117.50 + VAT (Per Hour thereafter 4 hours on site)</i>
Emergency Call Out – Out of Hours – Sunday & Bank Holidays (All Day)	£642.00 + VAT (Up to & Inc 4 hours on site)
<i>Additional Hours – Out of Hours – Sunday & Bank Holidays (All Day)</i>	<i>£160.50 + VAT (Per Hour thereafter 4 hours on site)</i>

Should a tanker & jetter unit be required to clean out the pumping chamber we can arrange this at extra cost.

PUMP STATION SERVICING & MAINTENANCE

We strongly recommend that a Service and Maintenance Agreement for the pump station is taken out from the date of commissioning, particularly if the pump station is to be used during the construction period. It is the responsibility of the main contractor to ensure the pump chamber is kept free of all site debris entering the pumping system as any damage caused by this would invalidate the warranty on the pumps and associated equipment.

***** IMPORTANT NOTE:** By signing this contract, you will be in contract with us (Willow Pumps Ltd) until you declare otherwise. There must be a minimum notice of 3 months, unless written agreement states otherwise. Your contract will be reviewed on an annual basis, whereby it is possible that there will be uplift in the fee, which will be provided to you in the form of a new contract to sign before we proceed. All necessary purchase orders must be provided in advance, in full, to process invoices via our accounts department. If you have any questions or queries, please do not hesitate to contact us. ***

HEALTH & SAFETY AT WORK 1974

DO NOT BEGIN INSTALLATION OF THIS CHAMBER UNTIL YOU HAVE READ & FULLY UNDERSTOOD THE REQUIREMENTS BELOW.

The concrete backfill should be designed to protect the GRP chamber from all external ground & ground water pressure. **Therefore, it should be watertight.**

Any groundwater allowed to leak between the concrete backfill and the GRP pump chamber is likely to cause a build up of pressure which will damage the GRP chamber.

We cannot accept responsibility for damage or de-formation of the chamber or pipework caused by external ground, ground water pressure or ground movement during or after installation.

If necessary, line the entire excavation with a continuous layer of suitable waterproof material prior to installation.

DO NOT COMMENCE WITH INSTALLATION IF YOU CANNOT CONTROL ANY GROUND WATER PRESENT IN ORDER TO PROVIDE A DRY EXCAVATION.

As with all site work, the dangers of working with water and electricity pose severe threats to health if obvious and fundamental precautions are not taken. Therefore, if you are in any doubt to any of the following, please do not hesitate to contact us.

All site work should be undertaken by qualified personnel only.

Lifting and Storage

Great care should be taken when lifting & handling the chambers and suitable equipment should always be used.

The nature of the design means the centre of gravity of the chamber is likely to be offset. The chambers are best lifted by crane using webbing lifting straps. Under no circumstances should chains or other unsuitable equipment be used unless lifting eyes are provided. Any lifting eyes provided are untested & should not be used as the sole lifting point for the chamber.

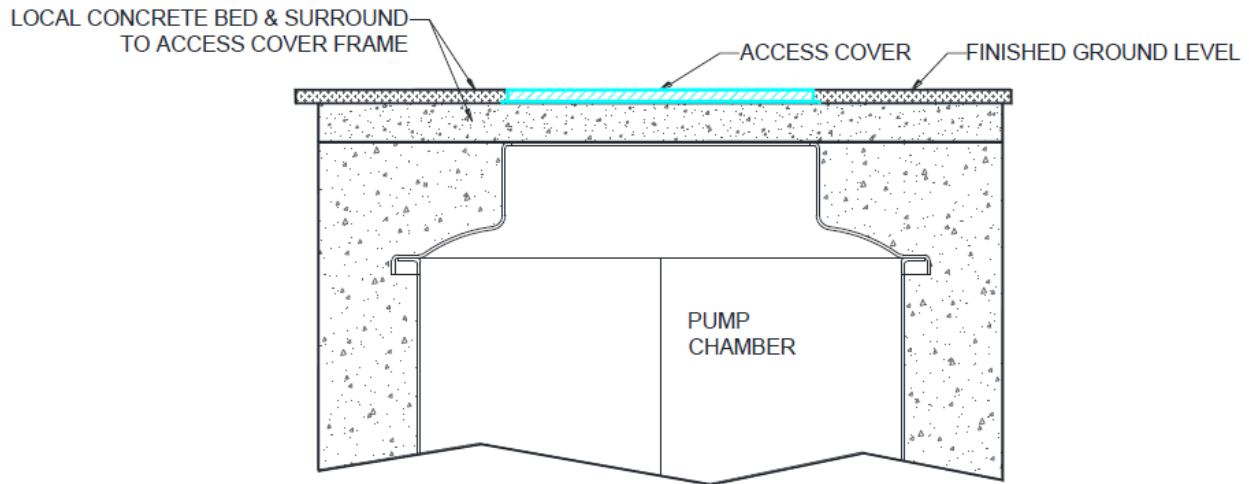
Any storage site should be free of any object which may cause damage to the chamber, and the chamber should be secured to prevent any rolling.

Pre-Installation Inspection

Before installation, an inspection of the chamber must be carried out to ensure no damage has occurred since delivery and to check all inlet and outlet connections are correct. Any changes or repairs cannot be made once installation has begun.

Tank Installation

- Select a suitable location for the tank. This will be normally at ground level lower than the properties being drained and allow for the falls in site drainage.
- Check that no other structure or special access is required over the selected spot. Provision can always be made, if necessary, to place the tank on a roadway, if protective backfill is placed around it and a suitable heavy-duty manhole cover is used over the opening.
- Check that no underground cable, pipe or service duct lies underneath.
- Excavate the minimum opening in the ground to receive the pump well and pipework to be used. If a machine is used to remove the spoil, the sides of the excavation should be battened for stability and a sump left in one corner for dewatering purposes.
- The depth of excavation needs to be at most 500mm deeper than the overall tank depth. If it is dug by hand, the sides will require shoring up for safety, to prevent earth slippage.
- A dewatering pump **MUST** be used to remove any ground water present & provide a dry excavation until the concrete backfill is set.
- Some clean hard core should be placed and consolidated in the base of the excavation. Usually this will need to be about 200mm thick, but in good ground, should be a minimum of 50mm.
- In order to be protected from any external force, the chamber should be completely surrounded by concrete.
- The concrete surrounding the chamber should be of suitable thickness, usually a minimum of 150mm, and quality to protect the chamber from all external pressure. Whether this is ground pressure, ground water pressure, trafficked areas or any other force which may cause damage or de-formation to the chamber. Therefore, we recommend a qualified civil/structural engineer is consulted to specify the correct concrete backfill suitable for your specific site requirements.
- **Please note** that most chambers will be fitted with an approx. 50mm external jointing flange. Please remember to take this into account when calculating levels. When installed this flange must settle into the wet concrete base.
- Pour the appropriate amount of concrete on top of the hard core and then lower the chamber onto the damp concrete allowing the flanged base joint to settle in, ensuring that the inlet and outlet pipes are correctly aligned.
- Fill the chamber with clean water to depth of approx. 500mm and recheck levels. Do not overfill as the chamber is not designed to hold water when not supported.
- Carefully commence pouring of the concrete backfill in small stages evenly around the chamber ensuring there are no voids which may allow ground water to penetrate. Vibrating pokers should be used with care to avoid damage to the chamber. Continue filling the chamber with clean water whilst evenly backfilling, ensuring the water level is no more than 300mm above the level of the concrete backfill. Connect the site pipework to the inlet and outlet of the pump well and continue to backfill.
- Under no circumstances should concrete be poured directly onto the chamber. Attempting to pour too much concrete at once will result in the chamber "floating" or particularly above the halfway point damage to the chamber due to excessive weight on the chamber body for which the manufacturers will not be responsible.
- Finish off the surface of the concrete at the required level, depending on the final ground cover required i.e. topsoil, tarmac, gravel etc. (see below).



PLEASE ALLOW THE CONCRETE BACKFILL TO SET BEFORE PUMPING THE WATER FROM THE PUMP CHAMBER.

Additional Notes

A cable duct is required with no sharp bends, minimum size 110mm.

It is most important that once the tank is in situ with all the inlet connections made, the drainage system should be flushed out, and all sand, debris etc. removed from the chamber.

If vehicular traffic will be passing over the chamber, it is essential that the cover slab is constructed so that there is no direct load on the chamber. Also, an access cover with the correct specified S.M.W.L. must be used.

By beginning installation of the unit, the installer is deemed to have read and complied with the above. Failure to do so will invalidate your warranty. If you have any questions, please do not hesitate to contact us.