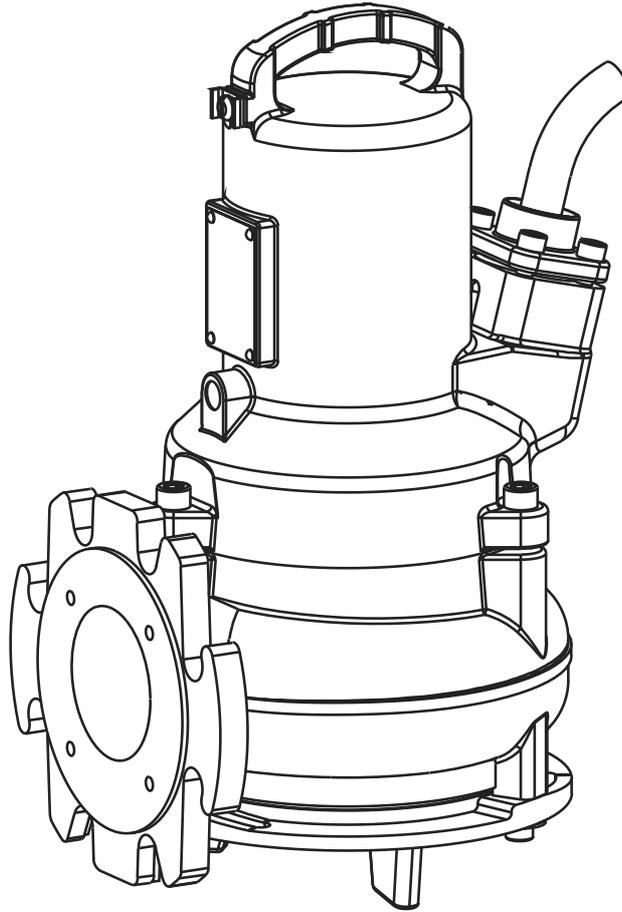


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## ABS submersible wastewater pump AS

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1006-00



## ABS submersible wastewater pump AS

0530	0631	0830
0630	0641	0840

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## 1 General

### 1.1 Application areas

**ATTENTION**      *The maximum allowable temperature of the medium pumped is 40°C*

The ABS submersible sewage pumps of the AS series have been designed for the economical and reliable pumping of commercial, industrial and municipal sewage and can be installed dry or wet. They are suitable for pumping of the following liquids:

- clear and wastewater, for sewage containing solids and fibrous material
- faecal matter
- sludge

The AS series is suitable for modern sewage installation systems.

#### 1.1.1 Approvals

The motors of the AS series have explosion-proof certification in accordance with Factory Mutual Class 1 Div. 1 Groups C and D.

Electrical safety of the AS series are UL and CSA approved.

The motors of the AS series are UL and CSA Approved when not FM approved.



Three~phase only, "CAUTION: Risk of Shock. Do not remove cord and strain relief. Do not connect conduit to pump", and "INSTALLER: This pump is not provided with a supply connection, therefore one of the following means must be provided by the installer: (1) A suitably rated, grounding-type attachment plug must be provided for connection to the branch circuit supply, or (2) A Listed junction box, Listed outlet box, or Listed wiring compartment and their associated fittings must be provided by the installer for supply connection. This provision must reduce the likelihood of water entry during temporary, limited submersion. See Instruction Manual for Further Details. Only qualified personnel shall install the pump.



Single ~ phase only, "WARNING Risk of electrical shock-this pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electrical shock, be certain that it is connected only to a properly grounded, grounding receptacle, motor is thermally protected. To reduce risk of electrical shock, pull plug before servicing this pump. This pump has not been investigated for use in swimming pools.

#### 1.1.2 Explosion-proof approvals

The motors of the AS series have explosion-proof certification in accordance with EEx d IIB T4

#### 1.1.3 Particular comments on the use of explosion-proof pumps in explosive zones.

1. Explosion-proof submersible pumps may only be operated with the thermal sensing system connected.
2. If ball type float switches are used, these must be connected to an intrinsically safe electrical circuit "Protection type EX (i)" in accordance with VDE 0165.
3. Dismantling and repair of submersible explosion-proof motors may only be carried out by approved personnel in specially approved work shops.

### 1.2 Technical data

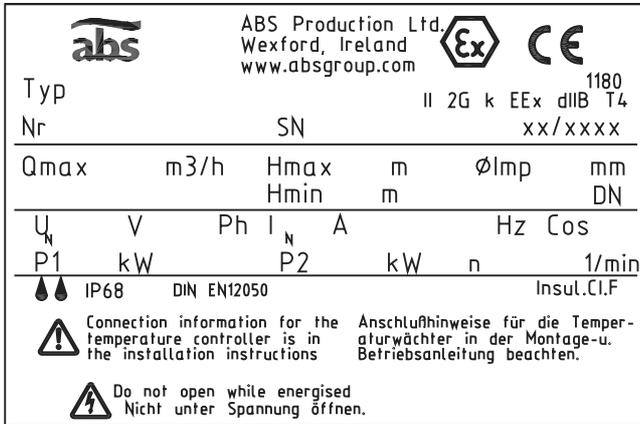
Maximum noise level  $\leq 70$  dB. This may be exceeded in certain circumstances.



1.2.1 Nameplate

We recommend that you record the data from the original nameplate on the nameplate illustration below and maintain it, together with your purchase receipt, as a proof for subsequent use. Always state the pump type, item no. and serial no. in the field “Nr” in all Communications

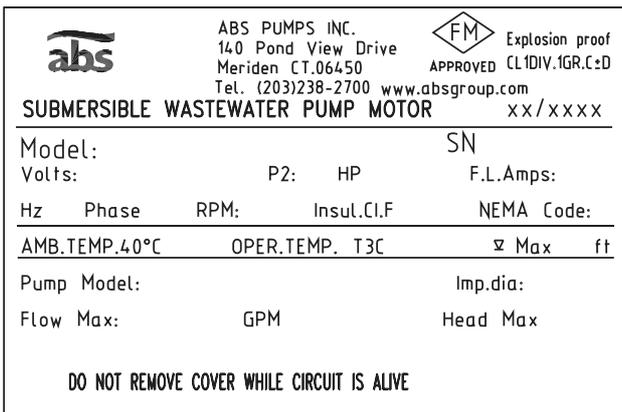
1001-00



Legend

Type	Pump type
Nr./SN	Item No./Serial No.
xx/xxxx	Production date (Week/Year)
UN	Rated Voltage V
IN	Rated Current A
	Frequency Hz
P1N	Rated Input Power kW
P2N	Rated Output Power kW
n	Speed min-1
Qmax	Max. Flow m <sup>3</sup> /h
Hmax	Max. Head m
∅ Imp.	Impeller diameter mm
DN	Discharge diameter mm
◆◆	Water pressure tight
IP 68	Protection type

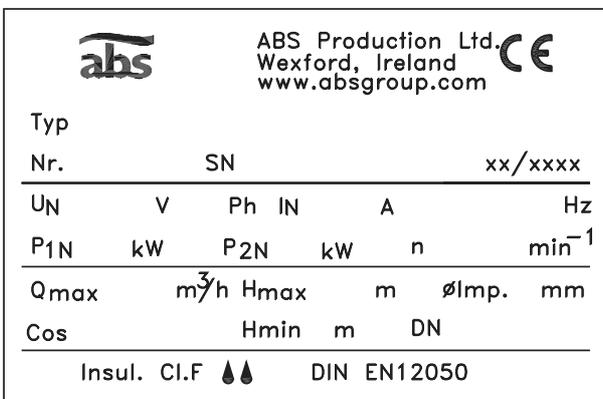
Figure 1 Nameplate Ex Version



Legend

Model	Pump type/ Item No.
SN	Serial No.
UN	Rated Voltage
P2	Rated Output Power HP
F.L.Amps	Full Load Amps
Hz	Frequency
Phase	Three/Single Phase
RPM	Speed min-1
Imp. dia	Impeller diameter mm
Max. ∇	Max submersible depth Ft
Flow Max.	Rated Discharge GPM
Head Max.	Max. Head Ft

Figure 2 Nameplate FM Version



Legend

Type	Pump type
Nr./SN	Item No./Serial No.
xx/xxxx	Production date (Week/Year)
UN	Rated Voltage V
IN	Rated Current A
	Frequency Hz
P1N	Rated Input Power kW
P2N	Rated Output Power kW
n	Speed min-1
Qmax	Max. Flow m <sup>3</sup> /h
Hmax	Max. Head m
∅ Imp.	Impeller diameter mm
DN	Discharge diameter mm
◆◆	Water pressure tight
IP 68	Protection type

Figure 3 Nameplate Standard Version

1002-00

1003-00

		ABS PUMPS INC. 140 POND VIEW DRIVE MERIDEN CT. 06450 TEL. (203)238-2700 www.absgroup.com					
Model: Nr.		xx/xxxx SN		LISTED 84 T9		LR51412	
Volts:		F.L.Amps:					
Hz	Phase	RPM:	P2	HP			
MAX.AMB.TEMP. 40°C		Insul.CL.F		NEMA		CODE	
Imp. DIA:	mm	Max ∇:		ft			
Flow Max:	GPM	Head Max:		ft			

## Legend

Model	Pump type/ Item No.	
SN	Serial No.	
UN	Rated Voltage	
P2	Rated Output Power	HP
F.L.Amps	Full Load Amps	
Hz	Frequency	
Phase	Three/Single Phase	
RPM	Speed	min-1
Imp. dia	Impeller diameter	mm
Max. ∇	Max submersible depth	Ft
Flow Max.	Rated Discharge	GPM
Head Max.	Max. Head	Ft

1004-00

Figure 4 Nameplate Standard Version

## 2 Safety

The general and specific health and safety hints are described in detail in the separate booklet Safety Hints. If anything is not clear or you have any questions as to safety make certain to contact the manufacturer ABS.

## 3 Transport



During transport the unit should not be dropped or thrown.



The unit should never be raised or lowered by the Power cable.

The unit is fitted with a lifting device to which a chain and shackle may be attached for transport purposes.



Any hoist used must be adequately dimensioned for the weight of the unit.

All relevant safety regulators as well as general good technical practice must be complied with.

## 4 Set-up and installation

**ATTENTION** *All relevant regulations covering sewage pumping installations and, where applicable, explosion-proof installations must be complied with.*



The cable duct to the control panel should be made gas-tight by filling with foam after the power supply and control circuit cables have been laid.



Particular attention must be paid to the safety regulations covering work in closed areas in sewage plants as well as good general technical practices .

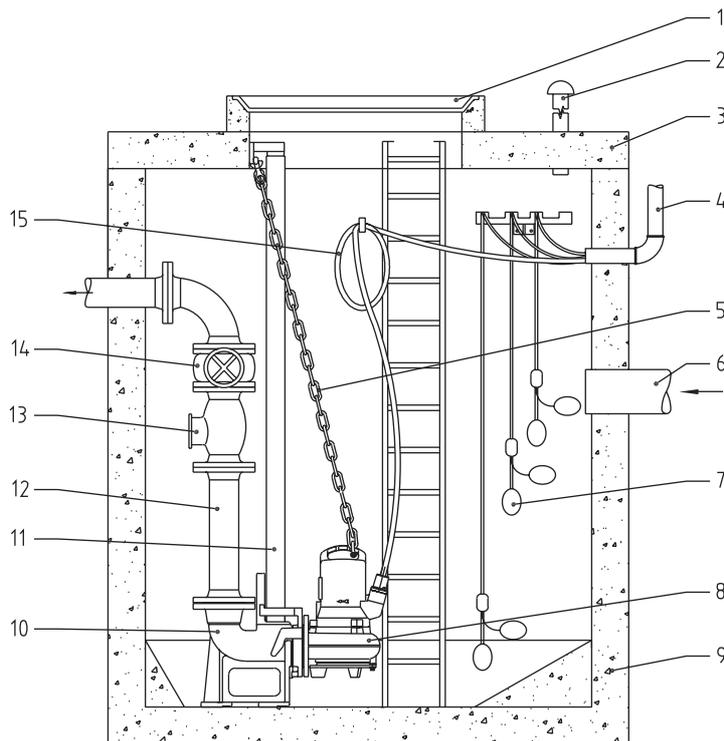
### 4.1 Discharge line

The discharge line must be installed in compliance with the relevant regulations. DIN 1986/100 and EN 12056 applies in particular to the following:

- The discharge line should be fitted with a backwash loop (180° bend) located above the backwash level and should then flow by gravity into the collection line or sewer.
- The discharge line should not be connected to a down pipe.
- No other inflows or discharge lines should be connected to this discharge line.

**ATTENTION** *The discharge line should be installed so that it is not affected by frost.*

## 4.2 Installation example, concrete sump



### Legend

- |    |   |
|----|---|
| 1  | Sump cover  |
| 2  | Venting line  |
| 3  | Sump cover  |
| 4  | Sleeve for cable protective duct to the control panel |
| 5  | Chain   |
| 6  | Inflow line   |
| 7  | Ball type float switch                                |
| 8  | Submersible pump                                      |
| 9  | Concrete sump.  |
| 10 | Pedestal  |
| 11 | Guide tube.   |
| 12 | Discharge line  |
| 13 | Non-return valve                                      |
| 14 | Gate valve  |
| 15 | Power cable to motor                                  |

10000-00

Figure 1 Installation example, concrete sump

## 4.3 Electrical connection



Before commissioning an expert should check that one of the necessary electrical protective devices is available. Earthing, neutral, earth leakage circuit breakers, etc. must comply with the regulations of the local electricity supply authority and a qualified person should check that these are in perfect order.

**ATTENTION** *The power supply system on site must comply with VDE or other local regulations with regard to cross-sectional area and maximum voltage drop. The voltage stated on the nameplate of the pump must correspond to that of the mains*

The power supply cable must be protected by an adequately dimensioned slow-blow fuse corresponding to the rated power of the pump.



The incoming power supply as well as the connection of the pump itself to the terminals on the control panel must comply with the circuit diagram of the control panel as well as the motor connection diagrams and must be carried out by a qualified person.

All relevant safety regulators as well as general good technical practice must be complied with.

**ATTENTION** *For use in the open air, the following VDE regulations apply:*

Submersible pumps used outdoors must be fitted with a power cable of at least 10m length. Other regulations may apply in different countries.

Pumps for use in swimming pools, garden ponds and similar, must comply with European Standard 60335, Part 2, protection class I.

**NOTE** *Please consult your electrician.*

### 4.3.1 Wiring diagrams

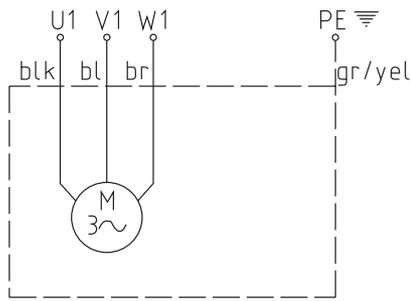


Figure 5 Three Phase Wiring

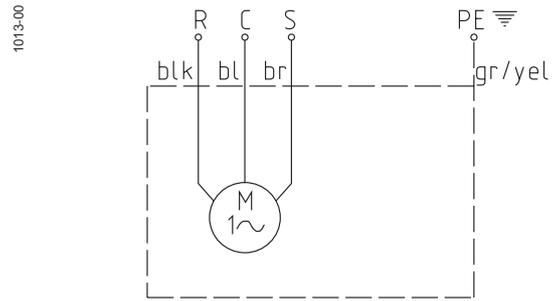


Figure 8 Single Phase Wiring

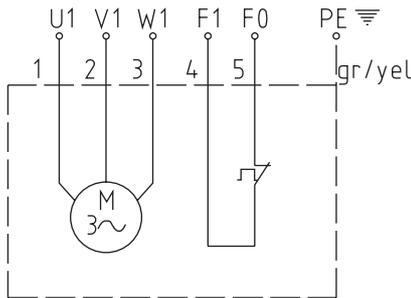


Figure 6 Three Phase Wiring with Temperature Limiter

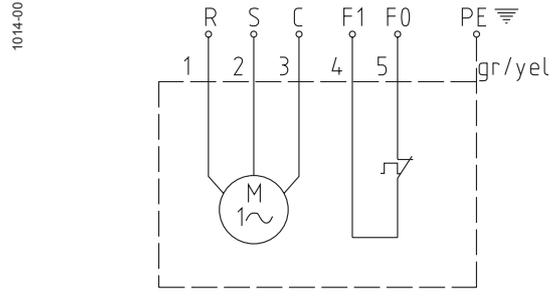


Figure 9 Single Phase Wiring with Temperature Limiter

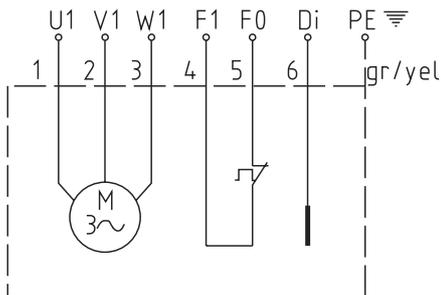


Figure 7 Three Phase Wiring with Temperature Limiter & DI

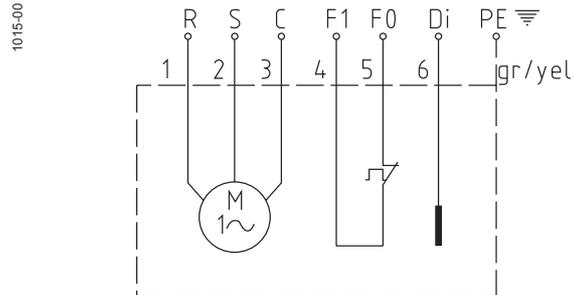


Figure 10 Single Phase Wiring with Temperature Limiter & DI

#### Three Phase

##### AS 50 Hz:

S12/2 D, S13/4 D, S17/2 D, S22/4 D, S26/2 D, S30/2 D,

##### AS 60 Hz:

S10/4 D, S16/2 D, S13/4 D, S16/4 D, S17/2 D, S18/2 D, S22/4 D, S25/4 D, S26/2 D, S30/2 D, S35/2 D

##### NOTE:

U1,V1,W1 = Live  
PE = Earth  
gr/yel = green/yellow  
blk = black  
bl = blue  
br = brown

Di = Seal monitor  
F1/FO = Thermal sensor  
R = Run  
C = Neutral (common)  
S = Start

#### Single Phase

##### AS 50 Hz:

S10/4 W, S12/2 W

##### AS 60 Hz:

S10/4 W, S16/2 W, S18/2 W

##### NOTE: USA

U1,V1,W1 = T1, T2, T3  
F1 = 1  
Fo = 2  
Di = 3

#### ATTENTION

**Explosion-proof pumps may only be used in explosive zones with the thermal sensors fitted (Leads: FO, F1).**

**ATTENTION** *It is important to us the correct capacitors with single phase pumps, use of incorrect capacitors will lead to motor burn-out*

#### 4.3.2 Checking direction of rotation



The safety hints in the previous sections must be observed!

When three phase units are being commissioned for the first time and also when used on a new site, the direction of rotation must be carefully checked by a qualified person.



When checking the direction of rotation, the unit should be secured in such a manner that no danger to personnel is caused by the rotating impeller, or by the resulting air flow. Do not place your hand into the hydraulic system!



The direction of rotation should only be altered by a qualified person.



When carrying out the direction of rotation check as well as when starting the unit pay attention to the **START REACTION**. This can be very powerful

#### ATTENTION

The direction of rotation is correct if the impeller/propeller rotates in a clockwise manner when viewing down from the top of the placed unit



1020-00

#### ATTENTION

The start reaction is anti clockwise

Figure 11 Rotor rotation

**NOTE** *If a number of pumps are connected to a single control panel then each unit must be individually checked.*

**ATTENTION** *The mains supply to the control panel should have a clockwise rotation. If the leads are connected in accordance with the circuit diagram and lead designations, the direction of rotation will be correct.*

#### 4.3.3 Changing direction of rotation



The safety hints in the previous sections must be observed!



The direction of rotation should only be altered by a qualified person.

If the direction of rotation is incorrect then this is altered by changing over two phases of the power supply cable in the control panel. The direction of rotation should then be rechecked

**NOTE** *The direction of rotation measuring device monitors the direction of rotation of the mains supply or that of an emergency generator*

## 5 Commissioning



The safety hints in the previous sections must be observed!



In explosive zones care must be taken that during switching on and operation of the pumps the pump section is filled with water (dry running) or alternatively is submerged or under water (wet installation). Ensure in this case that the minimum submergence given in the data sheet is observed, Other types of operation e.g. snore operation or dry running are not allowed.

Before commissioning the unit should be checked and a functional test carried out. Particular attention should be paid to the following:

- Have the electrical connections been carried out in accordance with regulations?
- Have the thermal sensors been connected?
- Is the seal monitoring device (where fitted) correctly installed?
- Is the motor overload switch correctly set?
- Have the power and control circuit cables been correctly fitted?
- Was the sump cleaned out?
- Have the inflow and outflows of the pump station been cleaned and checked?
- Is the direction of rotation correct - even if run via an emergency generator?
- Are the level controls functioning correctly?
- Are the required gates valves (where fitted) open?
- Do the non-return valves (where fitted) function easily?
- Have the hydraulics been vented in the case of dry installed pumps?

## 6 Maintenance



Before commencing any maintenance work the unit should be completely disconnected from the mains by a qualified person and care should be taken that it cannot be inadvertently switched back on.



When carrying out any repair or maintenance work, the safety regulations covering work in enclosed areas of sewage installations as well as good general technical practices should be followed.

**NOTE** *The maintenance hints given here are not designed for “do-it-yourself” repairs as special technical knowledge is required.*

**NOTE** *A maintenance contract with our works service department will guarantee you the best technical service under all circumstances.*

### 6.1 General maintenance hints

ABS submersible pumps are reliable quality products each being subjected to careful final inspection. Lubricated-for-life ball bearings together with monitoring devices ensure optimum pump reliability provided that the pump has been connected and operated in accordance with the operating instructions.

Should, nevertheless, a malfunction occur, do not improvise but ask your ABS customer service department for assistance.

This applies particularly if the pump is continually switched off by the current overload in the control panel, by the thermal sensors of the thermo-control system or by the seal monitoring system (DI). Regular inspection and care is recommended to ensure a long service life.

**NOTE** The ABS service organisation would be pleased to advise you on any applications you may have and to assist you in solving your pumping problems.

**NOTE** *The ABS warranty conditions are only valid provided that any repair work has been carried out in ABS approved workshop and where original ABS spare parts have been used.*

## 6.2 Commentary on maintenance of lifting stations in accordance with EN 12056.

It is recommended that the lifting station be inspected monthly and its function checked.

In accordance with EN regulations, the lifting station should be maintained by a qualified person at the following intervals:

- in commercial premises - every three months.
- in apartment blocks - every six months.
- in a single family home - once a year.

In addition we recommend that a maintenance contract be taken out with a qualified company.

## 6.3 Oil filling and oil changing

The oil chamber between the motor and the hydraulic section has been filled at the works with lubricating oil.

AS Oil Fill Quantity Oil Chamber							
AS 50 Hz					AS 60 Hz		
Pump Type		Litres			Pump Type		Litres
AS 0530	S12/2	0.48			AS 0530	S16/2	0.48
AS 0530	S17/2	0.48			AS 0530	S18/2	0.48
AS 0530	S26/2	0.48			AS 0530	S30/2	0.48
AS 0630	S10/4	0.56			AS 0630	S10/4	0.56
AS 0630	S13/4	0.56			AS 0630	S16/4	0.56
AS 0630	S22/4	0.56			AS 0630	S25/4	0.56
AS 0631	S12/2	0.48			AS 0631	S16/2	0.48
AS 0631	S17/2	0.48			AS 0631	S18/2	0.48
AS 0631	S30/2	0.48			AS 0631	S35/2	0.48
AS 0641	S30/2	0.48			AS 0641	S35/2	0.48
AS 0830	S10/4	0.56			AS 0830	S10/4	0.56
AS 0830	S13/4	0.56			AS 0830	S16/4	0.56
AS 0830	S22/4	0.56			AS 0830	S25/4	0.56
AS 0840	S12/2	0.48			AS 0840	S16/2	0.48
AS 0840	S17/2	0.48			AS 0840	S18/2	0.48
AS 0840	S26/2	0.48			AS 0840	S30/2	0.48

An oil change is only necessary if a fault occurs.



Repair work on explosion-proof submersible pumps may only be carried out by approved personnel in approved workshops.

When carrying out repairs only original spare parts, supplied by the manufacturer, should be used.

## 6.4 Cleaning

If the pump is used for transportable applications then it should be cleaned after each usage by pumping clear water in order to avoid deposits of dirt and encrustation. In the case of fixed installation, we recommend that the functioning of the automatic level control system be checked regularly. By switching the selection switch (switch setting "HAND") the sump will be emptied. If deposits of dirt are visible on the floats then these should be cleaned. After cleaning, the pump should be rinsed out with clear water and a number of automatic pumping cycles carried out.

## 6.5 Venting of the volute

After lowering the pump into a sump full of water, an air lock may occur in the volute and cause pumping problems. In this case, raise the pump in the medium and then lower it again. If necessary, repeat this venting procedure.



## Declaration of conformity

As defined by: Machinery Directive 98/37/EC, EMC-Directive 2004/108/EC, Low Voltage Directive 2006/95/EC, ATEX 94/9/EC, Construction Directive 89/106/EC

<b>GB:</b> Declaration of conformity	<b>NL:</b> Overeenkomstigheidsverklaring	<b>HU:</b> Megfelelőségi nyilatkozat
<b>DE:</b> Konformitätserklärung	<b>SE:</b> Försäkran om överensstämmelse	<b>GR:</b> Δήλωση επαρμοόνισής
<b>FR:</b> Déclaration de Conformité	<b>NO:</b> Samsvarserklæring	<b>ET:</b> Vastavusdeklaratsioon
<b>ES:</b> Declaración de Conformidad	<b>DK:</b> Overensstemmelseserklæring	<b>CZ:</b> Prohlášení o shodě
<b>PT:</b> Declaração de conformidade	<b>FI:</b> Vaatimustenmukaisuusvakuutus	<b>SI:</b> Izjava o skladnosti
<b>IT:</b> Dichiarazione di conformità	<b>PL:</b> Deklaracja zgodności	<b>SK:</b> Vyhlásenie o zhode

**ABS Production Wexford Ltd, Clonard Road, Wexford, IRELAND**

<b>GB:</b> Declare under our sole responsibility that the products	<b>DK:</b> Erklærer på eget ansvar, at følgende produkter
<b>DE:</b> Erklärt eigenverantwortlich, daß die Produkte	<b>FI:</b> Vakuutamme yksinomaan omalla vastuullamme, että seuraavat tuotteet
<b>FR:</b> Déclarons sous notre seule responsabilité que les produits	<b>PL:</b> Deklaruję z pełną odpowiedzialnością, że urządzenia typu
<b>ES:</b> Declaramos bajo nuestra exclusiva responsabilidad que los productos	<b>HU:</b> Felelősségünk teljes tudatában kijelentjük, hogy a termékek
<b>PT:</b> Declaramos sob nossa única responsabilidade que os produtos	<b>GR:</b> Dhlönomye me apokleistikq maw eyuýnh óti ta proíonta
<b>IT:</b> Dichiaro sotto la nostra esclusiva responsabilità che i prodotti	<b>ET:</b> Deklareerime ainuvastutajana, et tooted
<b>NL:</b> Verklaan geheel onder eigen verantwoordelijkheid dat de producten	<b>CZ:</b> Prohlašuje na vlastní odpovědnost, že výrobky
<b>SE:</b> Försäkrar under eget ansvar att produkterna	<b>SI:</b> Izjavljamo, da so z našo izkljueno odgovornostjo izdelki
<b>NO:</b> Erklærer på eget ansvar, at følgende produkter	<b>SK:</b> Vyhlasujeme na našu zodpovednosť, že výrobky

### Products:

**ABS submersible wastewater pump AS 0530, 0630, 0631, 0641, 0830, 0840**



**II 2G k EEx d IIB T4**

<b>GB:</b> To which this declaration relates are in conformity with the following standards or other normative documents	<b>DK:</b> Som er omfattet af denne erklæring, er i overensstemmelse med følgende standarder eller andre normative dokumenter
<b>DE:</b> Auf die sich diese Erklärung bezieht, den folgenden und/oder anderen normativen Dokumenten entsprechen	<b>FI:</b> Joihin tämä vakuutus liittyy, ovat seuraavien standardien sekä muiden sääntöamääraävien asiakirjojen mukaisia
<b>FR:</b> Auxquels se réfère cette déclaration sont conformes aux normes ou à d'autres documents normatifs	<b>PL:</b> Do których odnosi się niniejsza deklaracja są zgodne z następującymi normami lub innymi dokumentami normatywnymi.
<b>ES:</b> Objeto de esta declaración, están conformes con las siguientes normas u otros documentos normativos	<b>HU:</b> Amelyekre ez a nyilatkozat vonatkozik, megfelelnek a következőszabványokban és egyéb szabályozó dokumentumokban leírtaknak.
<b>PT:</b> Aque se refere esta declaração está em conformidade com as Normas ou outros documentos normativos	<b>GR:</b> Τα οποία αφορά η παρούσα δήλωση είναι σύμφωνα με τα ακόλουθα και/ή άλλα πρότυπα κανονιστικά έγγραφα
<b>IT:</b> Ai quali questa dichiarazione si riferisce sono conformi alla seguente norma o ad altri documenti normativi	<b>ET:</b> Mida käespõlev deklaratsioon puudutab, on vastavuses järgmistega standardite ja muude normatiivdokumentidega.
<b>NL:</b> Waarop deze verklaring betrekking heeft, in overeenstemming zijn met de volgende normen of andere normatieve documenten	<b>CZ:</b> Na které se toto prohlášení vztahuje, jsou v souladu s následujícími normami nebo jinými normativními dokumenty.
<b>SE:</b> Som omfattas av denna försäkran är i överensstämmelse med följande standarder eller andra regelgivande dokument	<b>SI:</b> Na katere se ta izjava nanaša, skladni z naslednjimi standardi ali drugimi normativnimi dokumenti.
<b>NO:</b> Som dekkes av denne erklæringen, er i samsvar med følgende standarder eller andre normative dokumenter	<b>SK:</b> Na ktoré sa vz ahuje toto vyhlásenie, zodpovedajú nasledujúcim štandardom a iným záväzným dokumentom.

**AS0530, 0630, 0631, 0641 = DIN EN 12050-2, EN 60335, EN 60079-1: 2004, EN 13463, EN ISO 12100-1 & EN ISO 12100-2**

**AS0830, 0840 = DIN EN 12050-1, EN 60335, EN 60079-1: 2004, EN 13463, EN ISO 12100-1 & EN ISO 12100-2**

<b>GB:</b> Motor Type Examination BASEEFA 03ATEX0716X or BASEEFA 03ATEX0717X.	<b>DK:</b> Motortypeundersøgelse, BASEEFA 03ATEX0716X eller BASEEFA 03ATEX0717X.
<b>DE:</b> Motortypprüfung BASEEFA 03ATEX0716X oder BASEEFA 03ATEX0717X	<b>FI:</b> Moottorin tyyppitarkastus BASEEFA 03ATEX0716X tai BASEEFA 03ATEX0717X.
<b>FR:</b> Examen de type de moteur BASEEFA 03ATEX0716X ou BASEEFA 03ATEX0717X	<b>PL:</b> Ocena zgodności typu silnika BASEEFA 03ATEX0716X lub BASEEFA 03ATEX0717X.
<b>ES:</b> Inspección de modelo de motor BASEEFA 03ATEX0716X o BASEEFA 03ATEX0717X.	<b>HU:</b> Motor típus vizsgálat: BASEEFA 03ATEX0716X vagy BASEEFA 03ATEX0717X.
<b>PT:</b> Exame de Tipo do Motor BASEEFA 03ATEX0716X ou BASEEFA 03ATEX0717X.	<b>GR:</b> Εξέταση τύπου κινητήρα BASEEFA 03ATEX0716X ή BASEEFA 03ATEX0717X.
<b>IT:</b> Verifica tipo motore BASEEFA 03ATEX0716X o BASEEFA 03ATEX0717X.	<b>ET:</b> Mootori tüübitunnistus BASEEFA 03ATEX0716X või BASEEFA 03ATEX0717X.
<b>NL:</b> Motortypebeproeving BASEEFA 03ATEX0716X of BASEEFA 03ATEX0717X.	<b>CZ:</b> Kontrola typu motoru BASEEFA 03ATEX0716X nebo BASEEFA 03ATEX0717X.
<b>SE:</b> Motortypundersökning BASEEFA 03ATEX0716X eller BASEEFA 03ATEX0717X.	<b>SI:</b> Preverjanje tipa motorja BASEEFA 03ATEX0716X ali BASEEFA 03ATEX0717X.
<b>NO:</b> Motortypeundersøkelse BASEEFA 03ATEX0716X eller BASEEFA 03ATEX0717X.	<b>SK:</b> Kontrola typu motora BASEEFA 03ATEX0716X alebo BASEEFA 03ATEX0717X.

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Sean Roche  
**ABS Production Wexford Ltd.**



ABS Production Wexford Ltd., Clonard Road, Wexford, Ireland  
Tel. +353 53 91 63 200 Fax +353 53 91 42335. [www.absgroup.com](http://www.absgroup.com)