

KP 150, KP 250, KP 350

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Declaration of Conformity

We **GRUNDFOS** declare under our sole responsibility that the products **KP 150**, **KP 250** and **KP 350**, to which this declaration relates, are in conformity with the Council Directives on the approximation of the laws of the EEC Member States relating to

- Machinery (98/37/EEC).
Standard used: EN 292.
- Electromagnetic compatibility (89/336/EEC).
Standards used: EN 61 000-6-2 and EN 61 000-6-3.
- Electrical equipment designed for use within certain voltage limits (73/23/EEC).
Standards used: EN 60 335-1 and EN 60 335-2-41.

Déclaration de Conformité

Nous **GRUNDFOS** déclarons sous notre seule responsabilité que les produits **KP 150**, **KP 250** et **KP 350** auxquels se réfère cette déclaration sont conformes aux Directives du Conseil concernant le rapprochement des législations des Etats membres CEE relatives à

- Machines (98/37/CEE).
Standard utilisé: EN 292.
- Compatibilité électromagnétique (89/336/CEE).
Standards utilisés: EN 61 000-6-2 et EN 61 000-6-3.
- Matériel électrique destiné à employer dans certaines limites de tension (73/23/CEE).
Standards utilisés: EN 60 335-1 et EN 60 335-2-41.

Declaración de Conformidad

Nosotros **GRUNDFOS** declaramos bajo nuestra única responsabilidad que los productos **KP 150**, **KP 250** y **KP 350** a los cuales se refiere esta declaración son conformes con las Directivas del Consejo relativas a la aproximación de las legislaciones de los Estados Miembros de la CEE sobre

- Máquinas (98/37/CEE).
Norma aplicada: EN 292.
- Compatibilidad electromagnética (89/336/CEE).
Normas aplicadas: EN 61 000-6-2 y EN 61 000-6-3.
- Material eléctrico destinado a utilizarse con determinadas límites de tensión (73/23/CEE).
Normas aplicadas: EN 60 335-1 y EN 60 335-2-41.

Ἐπίσημη Ἐξήγησις

Εμείς η **GRUNDFOS** δηλώνουμε με αποκλειστική δική μας ευθύνη ότι τα προϊόντα **KP 150**, **KP 250** και **KP 350** συμμορφώνονται με την Οδηγία του Συμβουλίου επί της σύγκλισης των νόμων των Κρατών Μελών της Ευρωπαϊκής Ένωσης σε σχέση με τα

- Μηχανήματα (98/37/ΕΕΚ).
Πρότυπο που χρησιμοποιήθηκε: EN 292.
- Ηλεκτρομαγνητική συμβατότητα (89/336/ΕΕΚ).
Πρότυπα που χρησιμοποιήθηκαν: EN 61 000-6-2 και EN 61 000-6-3.
- Ηλεκτρικές συσκευές σχεδιασμένες για χρήση εντός ορισμένων ορίων ηλεκτρικής τάσης (73/23/ΕΕΚ).
Πρότυπα που χρησιμοποιήθηκαν: EN 60 335-1 και EN 60 335-2-41.

Försäkran om överensstämmelse

Vi **GRUNDFOS** försäkrar under ansvar, att produkterna **KP 150**, **KP 250** och **KP 350**, som omfattas av denna försäkran, är i överensstämmelse med Rådets Direktiv om inbördes närmande till EU-medlemsstaternas lagstiftning, avseende

- Maskinell utrustning (98/37/EC).
Använd standard: EN 292.
- Elektromagnetisk kompatibilitet (89/336/EC).
Använda standarder: EN 61 000-6-2 och EN 61 000-6-3.
- Elektrisk material avsedd för användning inom vissa spänningsgränser (73/23/EC).
Använda standarder: EN 60 335-1 och EN 60 335-2-41.

Overensstemmelseserklæring

Vi **GRUNDFOS** erklærer under ansvar, at produkterne **KP 150**, **KP 250** og **KP 350**, som denne erklæring omhandler, er i overensstemmelse med Rådets direktiver om indbyrdes tilnærmelse til EF medlemsstaternes lovgivning om

- Maskiner (98/37/EØF).
Anvendt standard: EN 292.
- Elektromagnetisk kompatibilitet (89/336/EØF).
Anvendte standarder: EN 61 000-6-2 og EN 61 000-6-3.
- Elektrisk materiel bestemt til anvendelse inden for visse spændingsgrænser (73/23/EØF).
Anvendte standarder: EN 60 335-1 og EN 60 335-2-41.

Konformitätserklärung

Wir **GRUNDFOS** erklären in alleiniger Verantwortung, daß die Produkte **KP 150**, **KP 250** und **KP 350**, auf die sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EG-Mitgliedstaaten übereinstimmen:

- Maschinen (98/37/EWG).
Norm, die verwendet wurde: EN 292.
- Elektromagnetische Verträglichkeit (89/336/EWG).
Normen, die verwendet wurden: EN 61 000-6-2 und EN 61 000-6-3.
- Elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen (73/23/EWG).
Normen, die verwendet wurden: EN 60 335-1 und EN 60 335-2-41.

Dichiarazione di Conformità

Noi **GRUNDFOS** dichiariamo sotto la nostra esclusiva responsabilità che i prodotti **KP 150**, **KP 250** e **KP 350** ai quali questa dichiarazione se riferisce sono conformi alle Direttive del Consiglio concernente il ravvicinamento delle legislazioni degli Stati membri CEE relative a

- Macchine (98/37/CEE).
Standard usato: EN 292.
- Compatibilità elettromagnetica (89/336/CEE).
Standard usati: EN 61 000-6-2 e EN 61 000-6-3.
- Materiale elettrico destinato ad essere utilizzato entro certi limiti di tensione (73/23/CEE).
Standard usati: EN 60 335-1 e EN 60 335-2-41.

Declaração de Conformidade

Nós **GRUNDFOS** declaramos sob nossa única responsabilidade que os produtos **KP 150**, **KP 250** e **KP 350** aos quais se refere esta declaração estão em conformidade com as Directivas do Conselho das Comunidades Europeias relativas à aproximação das legislações dos Estados Membros respeitantes à

- Máquinas (98/37/CEE).
Norma utilizada: EN 292.
- Compatibilidade electromagnética (89/336/CEE).
Normas utilizadas: EN 61 000-6-2 e EN 61 000-6-3.
- Material eléctrico destinado a ser utilizado dentro de certos limites de tensão (73/23/CEE).
Normas utilizadas: EN 60 335-1 e EN 60 335-2-41.

Overeenkomstigheidsverklaring

Wij **GRUNDFOS** verklaren geheel onder eigen verantwoordelijkheid dat de producten **KP 150**, **KP 250** en **KP 350** waarop deze verklaring betrekking heeft in overeenstemming zijn met de Richtlijnen van de Raad inzake de onderlinge aanpassing van de wetgevingen van de Lid-Staten betreffende

- Machines (98/37/EEG).
Norm: EN 292.
- Elektromagnetische compatibiliteit (89/336/EEG).
Normen: EN 61 000-6-2 en EN 61 000-6-3.
- Elektrisch materiaal bestemd voor gebruik binnen bepaalde spanningsgrenzen (73/23/EEG).
Normen: EN 60 335-1 en EN 60 335-2-41.

Vastaavuusvakuutus

Me **GRUNDFOS** vakuutamme yksin vastuullisesti, että tuotteet **KP 150**, **KP 250** ja **KP 350**, jota tämä vakuutus koskee, noudattavat direktiiviejä jotka käsittelevät EY:n jäsenvaltioiden koneellisia laitteita koskevien lakien yhdenmukaisuutta seur.:

- Koneet (98/37/EY).
Käytetty standardi: EN 292.
- Elektromagneettinen vastaavuus (89/336/EY).
Käytetyt standardit: EN 61 000-6-2 ja EN 61 000-6-3.
- Määrättyjen jännitörajoitusten puitteissa käytettävät sähköiset laitteet (73/23/EY).
Käytetyt standardit: EN 60 335-1 ja EN 60 335-2-41.

Bjerringbro, 1st September 2001



Kentth Hvid Nielsen
Technical Manager

KP 150, KP 250, KP 350

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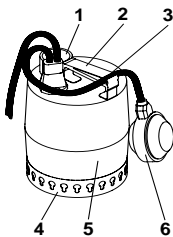


Before beginning installation procedures, these installation and operating instructions should be studied carefully. The installation and operation should also be in accordance with local regulations and accepted codes of good practice.

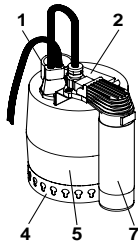
1. General description

Fig. 1

With float switch



With vertical level switch



1. Discharge port Rp 1 1/4.
2. Handle.
3. Clamp.
4. Suction strainer.
5. Outer casing.
6. Float switch.
7. Vertical level switch.

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1.1 Applications

The GRUNDFOS KP 150, KP 250 and KP 350 pumps are single-stage submersible pumps designed for pumping grey wastewater.

Pumps with float switch:

The pump is capable of pumping water which contains a limited quantity of solids up to 10 mm in diameter without being blocked or damaged.

The pump is suitable for automatic as well as manual operation and can be installed in a permanent installation or used as a portable pump.

The pump is suitable for:

- pumping of wastewater from washing machines, baths, sinks, etc. from low-lying parts of buildings up to sewer level.
- drainage of cellars or buildings prone to flooding.
- pumping in draining wells.
- pumping in wells for surface water with inlets from roof gutters, pits, tunnels, etc.
- emptying swimming pools, ponds or fountains.

Pumps with vertical level switch:

The pump must only be used for the pumping of clean ground water and drain water.

General:



The pump must not be used in or at swimming pools, garden ponds, etc. when there are persons in the water.

The pump is *not* suitable for pumping:

- liquids containing long fibres;
- inflammable liquids (oil, petrol, etc.);
- aggressive liquids.

Note: The pump contains approx. 70 ml of non-poisonous motor liquid that may pollute the pumped liquid if the pump should leak.

1.2 Operating conditions

Liquid temperature:

Minimum 0°C. The maximum liquid temperature depends on the rated voltage of the pump, see the table below.

Voltage	Maximum liquid temperature
1 x 100 V, 50 Hz	+35°C
1 x 110 V, 50 Hz	+40°C
1 x 100-110 V, 50 Hz*	+40°C
1 x 220-230 V, 50 Hz	+50°C
1 x 220-240 V, 50 Hz*	+50°C
1 x 230-240 V, 50 Hz	+50°C
1 x 100 V, 60 Hz	+35°C
1 x 115 V, 60 Hz	+50°C (+45°C KP 350)
1 x 220 V, 60 Hz	+40°C
3 x 200 V, 50 Hz	+35°C
3 x 380-400 V, 50 Hz*	+50°C
3 x 380-415 V, 50 Hz	+50°C
3 x 200 V, 60 Hz	+35°C

At intervals of at least 30 minutes, the pump is allowed, however, to run at maximum +70°C for periods not exceeding 2 minutes.

* Voltage variant for KP 350

Storage

temperature: Not lower than -20°C.

Installation

depth: Maximum 10 metres below liquid level.

1.3 Sound pressure level

The A-weighted sound pressure level of the pump is lower than 65 dB(A). The level has been measured in accordance with ISO 3743 and the pump has been suspended from two vibration-free suspension points.

2. Electrical connection

Note: Depending on local regulations, a pump with 10 metres of mains cable must be used if the pump is used as a portable pump for different applications. The electrical connection should be carried out in accordance with local regulations.

The operating voltage and frequency are marked on the nameplate. Please make sure that the motor is suitable for the electricity supply on which it will be used.

As a precaution, the pump must be connected to a socket with earth connection. It is recommended to fit the permanent installation with an earth leakage circuit breaker (ELCB) with a tripping current < 30 mA.



The pump must be connected to an external mains switch with a minimum contact gap of 3 mm in all poles.

The pump incorporates thermal overload protection and requires no additional motor protection.

Motors for KP 350, 3 x 200 V, 50 and 60 Hz, must be connected to a motor starter.

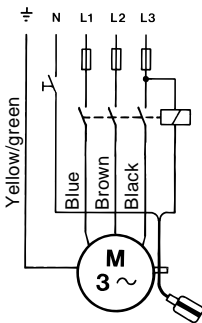
If the motor is overloaded, it will stop automatically.



When it has cooled to normal temperature, it will restart automatically.

Three-phase pumps which are to be used with a float switch/vertical level switch must be connected to the mains supply via a contactor, see fig. 2.

Fig. 2



2.1 Checking of direction of rotation

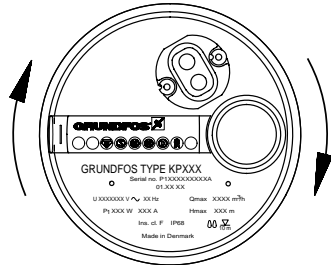
(Three-phase pumps only)

The direction of rotation should be checked every time the pump is connected to a new installation.

Check the direction of rotation as follows:

1. Position the pump on a plane surface.
2. Start and stop the pump.
3. Observe the movement of the pump (jerk). If the pump moves as shown in fig. 3 (clockwise), the direction of rotation is correct (counter-clockwise). If not, two of the supply phases to the motor should be interchanged.

Fig. 3



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If the pump is connected to a piping system, the direction of rotation can be checked as follows:

1. Start the pump and check the quantity of water.
2. Stop the pump and interchange two of the phases to the motor.
3. Start the pump and check the quantity of water.
4. Stop the pump.
5. Compare the results taken under points 1 and 3, and the connection which gives the larger quantity of water is the correct direction of rotation.

3. Installation

3.1 Connection

The discharge pipe/hose is fitted to the Rp 1/4 discharge port. Steel pipes can be screwed directly into the pump discharge port.

For permanent installation a union fitted to the discharge pipe at a convenient point is recommended to facilitate ease of removal for cleaning and servicing. If a hose is fitted, use a screwed hose coupling.

The pipe threads or hose coupling should be sealed using teflon sealing tape or similar material.

Note: The pump must not be installed hanging from the discharge pipe.

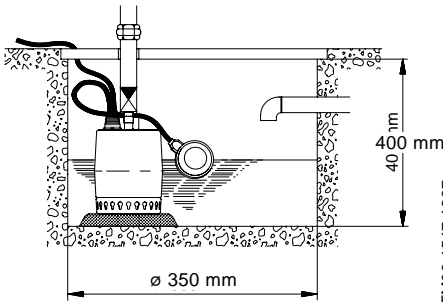
When the pump is installed in a permanent installation with float switch/vertical level switch, a non-return valve must be fitted in the discharge pipe/hose. If the pump is installed in a well and with a minimum free cable length according to figure 9, the minimum dimensions of the well should be as shown in figure 4 to ensure free movability of the float switch. Figure 5 shows a pump with a vertical level switch.

Furthermore, the well should be dimensioned according to the relation between the water flow to the well and the pump capacity.

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Fig. 4

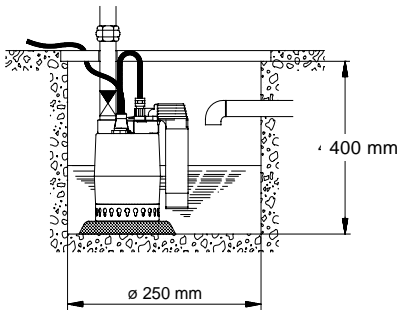
With float switch



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Fig. 5

With vertical level switch



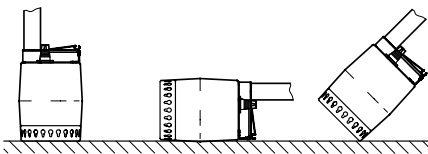
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3.2 Pump location

Pumps without or with float switch can be used in vertical position with the discharge port uppermost or in horizontal or tilted position with the discharge port as the highest point of the pump, see fig. 6.

Pumps with vertical level switch must be used in vertical position.

Fig. 6



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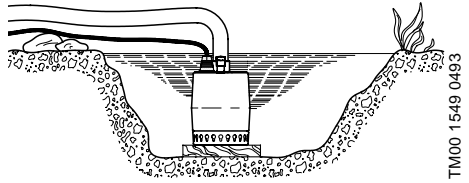
When the pipe/hose has been connected, the pump is ready for use.

Note: Do not lift the pump by means of the electric cable. Lift the pump by means of the discharge pipe/hose or a wire secured to the handle of the pump.

Before positioning the pump, make sure that the suction strainer will not be blocked or partly blocked by silt, mud or similar materials.

This can be avoided by positioning the pump on bricks, an iron plate, etc., see fig. 7.

Fig. 7



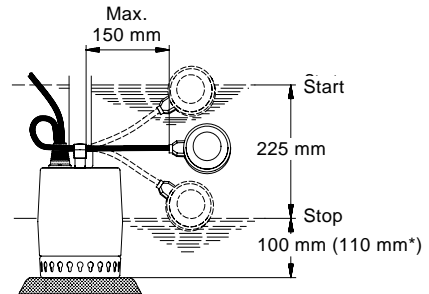
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3.3 Adjustment of float switch

The difference in level between start and stop can be adjusted by changing the free cable length between the handle of the pump and the float switch.

Large difference in level: long free cable. This cable length must not exceed 150 mm, see fig. 8.

Fig. 8

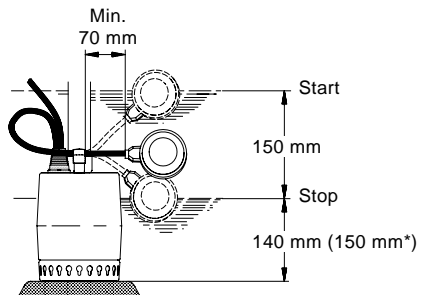


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* For KP 350 the distance between the bottom of the suction strainer and the lowest level of the float is 110 mm.

Small difference in level: short free cable. This cable length must at least be 70 mm, see fig. 9.

Fig. 9



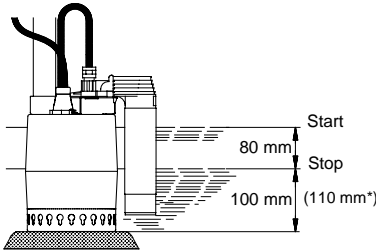
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* For KP 350 the distance between the bottom of the suction strainer and the lowest level of the float is 150 mm.

3.4 Vertical level switch

For pumps with vertical level switch, the difference in level between start and stop is not adjustable. The start/stop levels are shown in fig. 10.

Fig. 10



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* For KP 350 the distance between the bottom of the suction strainer and the lowest level of the level switch is 110 mm.

4. Operation and maintenance

Under normal operating conditions, the pump is maintenance-free.

If the pump has been used for liquids other than clean water, it should be flushed through with clean water immediately after use.

As a precaution, the suction strainer must always be fitted to the pump during operation.



Never dismantle the pump unless the electricity supply has been switched off.

During dismantling, caution should be exercised as there will be access to sharp edges, etc. which may cut.

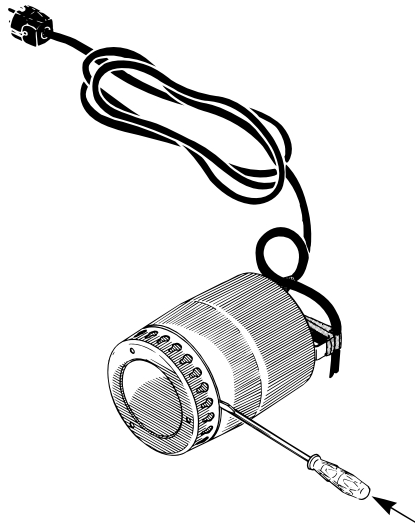
4.1 Cleaning the pump

If the pump does not deliver a sufficient quantity of water because of sediment, dismantle and clean the pump.

The dismantling of the pump is carried out as follows:

1. Disconnect the electricity supply.
2. Allow the pump to drain.
3. Carefully loosen the suction strainer by inserting a screwdriver in the recess between the outer casing and the strainer and pressing it hard. Repeat the procedure until the strainer is free and can be removed, see fig. 11.

Fig. 11



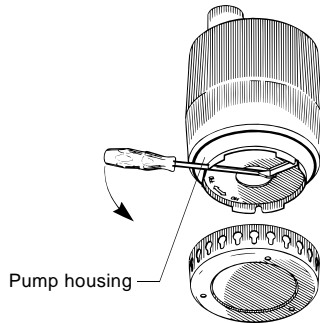
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4. Clean the suction strainer and refit it.

If the pump still does not deliver a sufficient quantity of water, dismantle the pump as follows:

1. Disconnect the electricity supply.
2. Turn the pump housing 90° counter-clockwise using a screwdriver, see the arrow on the pump housing. Pull off the housing, see fig. 12.

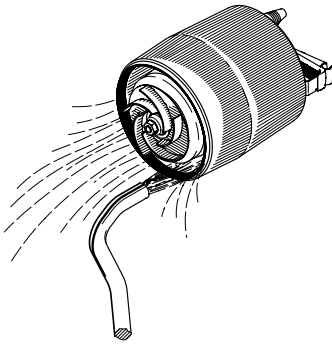
Fig. 12



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3. Clean and flush the pump with water to remove possible impurities between the motor and the outer casing. Clean the impeller, see fig. 13.

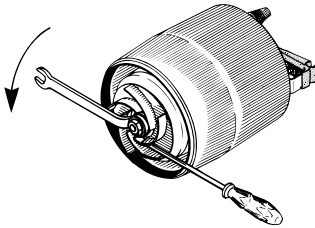
Fig. 13



TM00 1555 0493

4. Check that the impeller can rotate freely. If not, remove the impeller:
- Slacken and remove the nut on the motor shaft (13 mm). Prevent the impeller from rotating by means of a screwdriver, see fig. 14.
 - Clean the impeller and around the shaft.

Fig. 14



TM00 1556 0493

5. Check the impeller, the pump housing and the sealing part. Replace possible defective parts.

Assemble the pump in reverse order of dismantling.

Note: Check before and when fitting the pump housing that the sealing part is positioned correctly, see fig. 15. Moisten the sealing part with water to facilitate the fitting.

4.2 Replacement of parts

The impeller, the pump housing and the sealing part can be replaced.

The part numbers and the components included in the service kits will appear from the tables below and fig. 15.

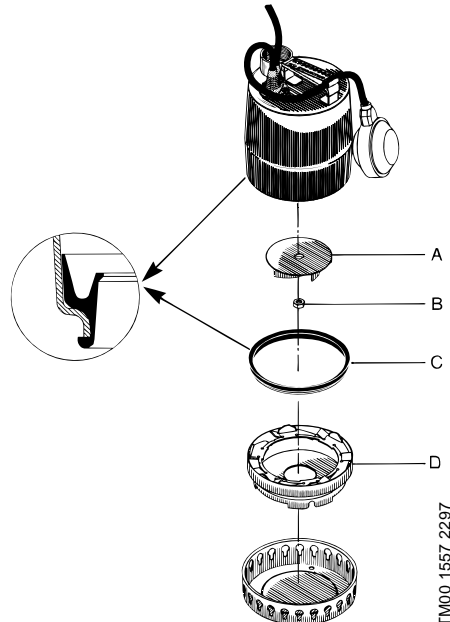
Pump type	Part number
Impeller kit	
KP 150, 50 Hz	01 57 78
KP 250, 50 Hz	01 57 79
KP 150, 60 Hz	01 57 83
KP 250, 60 Hz	01 57 84
KP 350, 50 Hz	01 57 85
KP 350, 60 Hz	01 57 86
Pump housing	
KP 150 and KP 250	01 57 70
KP 350	01 57 71

Service kit	Pos.	Description	Qty.
Impeller kit	A	Impeller	1
	B	Nut	1
	C	Sealing part	1
Pump housing	D	Pump housing	1

If pump components other than those mentioned above are damaged or defective, please contact your pump supplier.

A possible replacement of the cable or the float switch/vertical level switch must be carried out by an authorised GRUNDFOS service workshop.

Fig. 15



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5. Fault finding chart

Fault	Cause
1. Motor does not start.	a) Supply failure. b) Pump switched off by float switch/vertical level switch. c) Fuses are blown. d) Thermal relay has cut out the electricity supply to the motor (see section 2. <i>Electrical connection</i>).
2. Thermal relay trips out after short time of operation.	a) Temperature of pumped liquid higher than that stated in section 1.2 <i>Operating conditions</i> . b) Pump partly blocked by impurities (see section 4. <i>Operation and maintenance</i>). c) Pump mechanically blocked (see section 4. <i>Operation and maintenance</i>).
3. Pump runs but gives insufficient water.	a) Pump partly blocked by impurities (see section 4. <i>Operation and maintenance</i>). b) Discharge pipe/hose partly blocked. Check the non-return valve, if fitted. c) Check the impeller, the pump housing and the sealing part (see section 4. <i>Operation and maintenance</i>). d) Three-phase pumps only: Incorrect direction of rotation (see section 2.1 <i>Checking of direction of rotation</i>).
4. Pump runs but gives no water.	a) Pump blocked by impurities (see section 4. <i>Operation and maintenance</i>). b) Non-return valve, if fitted, in discharge pipe/hose blocked in closed position. c) Liquid level is too low. During normal operation, the liquid level must be above the strainer. d) Pumps with float switch: The free cable of the float switch is too long (see section 3.3 <i>Adjustment of float switch</i>).

6. Disposal

Disposal of this product or parts of it must be carried out according to the following guidelines:

1. Use the local public or private waste collection service.
2. In case such waste collection service does not exist or cannot handle the materials used in the product, please deliver the product or any hazardous materials from it to your nearest GRUNDFOS company or service workshop.

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