

INSTALLATION AND OPERATING INSTRUCTIONS

KTP 300 Submersible Pump

For clear water and wastewater without sewage



Edition 01/1992

ID number 010-602

(Subject to technical amendments)

KTP 300 submersible pump

Areas of application

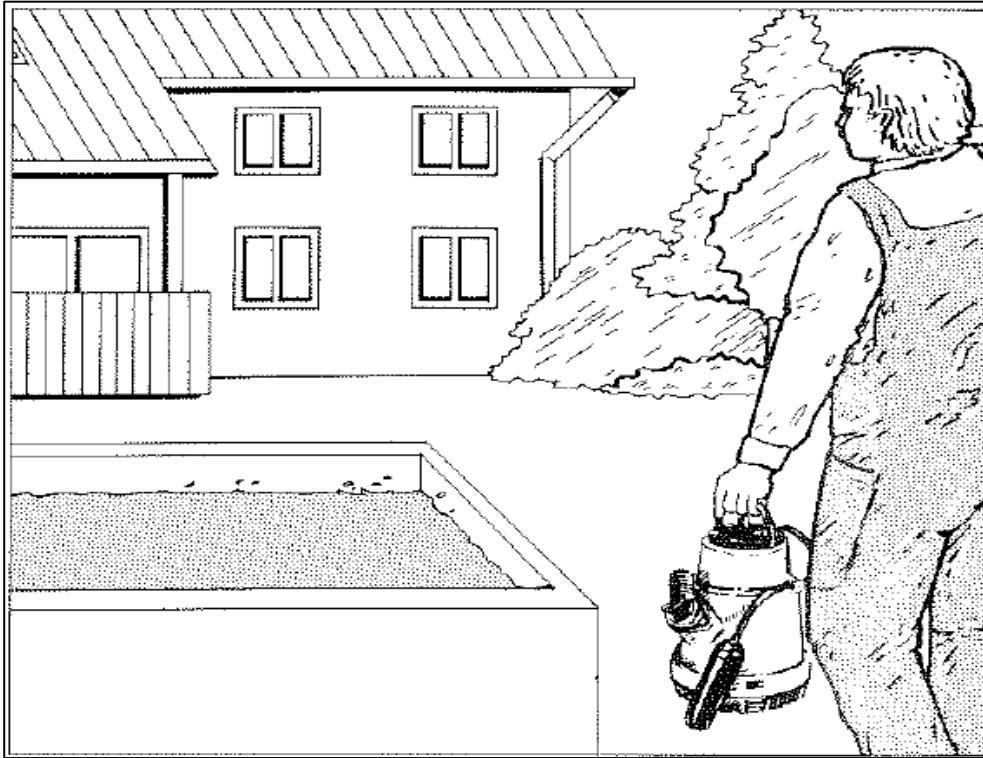
The KESSEL KTP 300 is a fully submersible pump designed for continuous operation in a wide variety of applications. The pump is designed to handle wastewater not containing raw sewage. Removal of the Quick-Release intake filter on the bottom of the pump enables suction depths as low as 8 mm from the surface. The pump is available without float switch for full time pumping or available with float switch for use as a basement / area dewatering pump.

Technical description

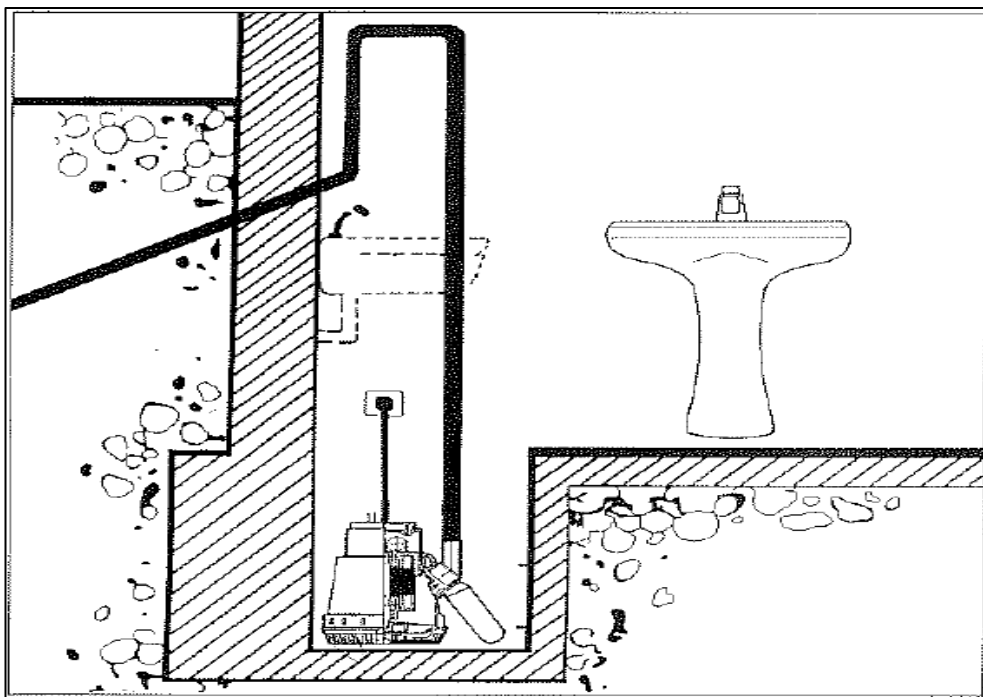
The KESSEL KTP 300 submersible pump is manufactured from high resistant fiberglass reinforced polymer body designed to handle the tough environments of submersible pump applications. The motor housing, rotor and bearing are of stainless steel providing strong protection against corrosion. The motor is protected by a thermal switch with automatic restart. All screws are manufactured from Niro and each end of the rotor is protected by twin gasket seals and lubricants providing the motor and pump with the quality needed for long life.

Setting up

The plug, outlet or extension chord to which the pump is connected must be protected from moisture / water and be in an area or level which is not in a flood area / alavation.



The KESSEL KTP 300 is a high quality submersible pumps designed for use in multiple applications. They are designed for pumping large volumes of non-sewage wastewater / water.



KESSEL KTP submersible pump with float switch and backflow valve installed in a sump / chamber.

Operation

As delivered from the factory, the KTP 300 has a pump activation height of approximately 180 mm and a pump shut-off height of approximately 80 mm. Adjustment of the float switch cable fastener allows for different on / off activation heights. For low level pumping, removal of the Quick-Release intake filter allows the pump to pump at depths as low as 8 mm (for models with floats switches this requires physically fixing the float switch in the vertical position). The KTP 300 is designed for continuous operation at 40 degrees Celsius (104 degrees F) and in submersed conditions is designed to handle wastewater at 70 degrees Celsius (158 degrees F) for approximately 10 minutes. Please note that an overload KTP 300 will automatically shut off due to a thermal protector and will turn itself back on after the necessary cool down period (it is important to verify that the pump turns itself back on after automatically shutting off).

Caution

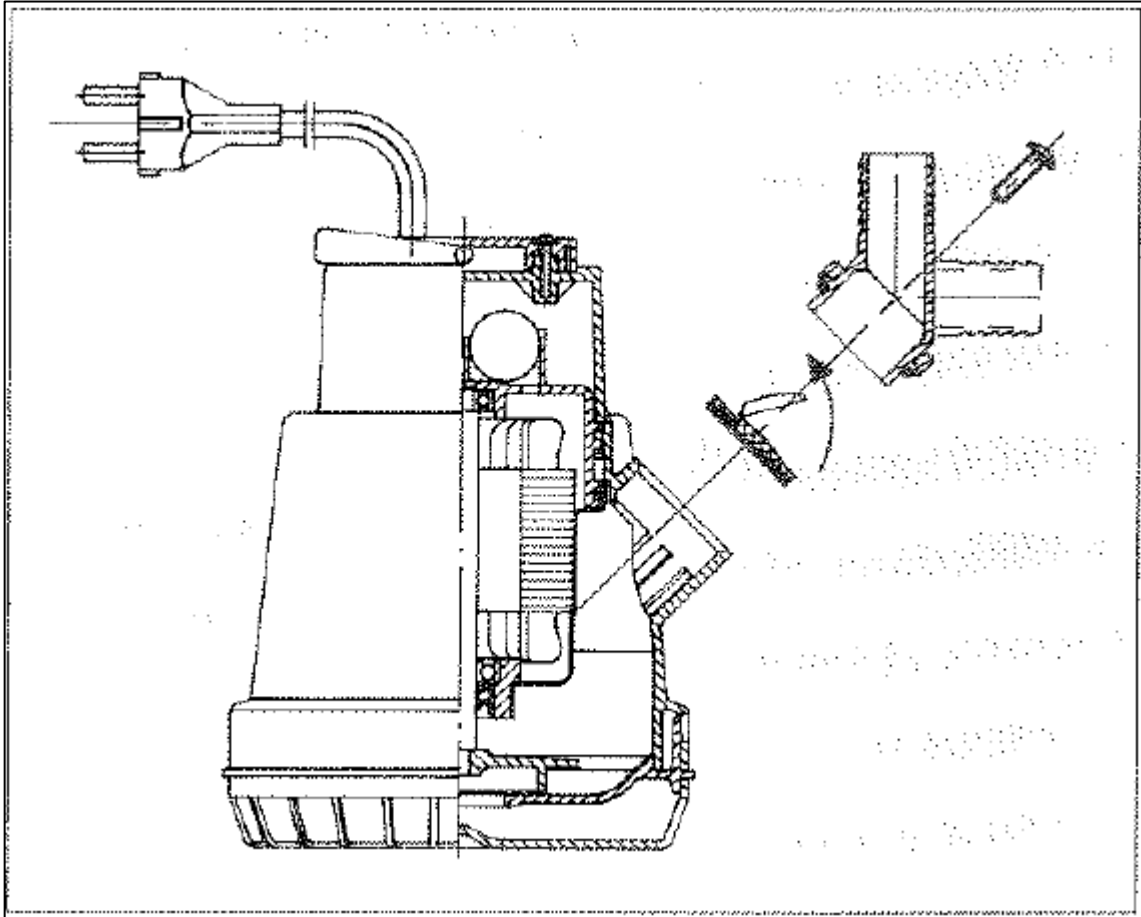
* Befor removing the Quick-Release intakefilter from the bottom of the pump, unplug the pump from its power source. Take caution when operating the pump without the intake filter – exposed rotating parts can be hazardous and cause injury.

Be sure to follow VDE Paragraph 49d and all other national and local regulations when using the KTP 300 in swimming pools, sumps or any other area in which people / animals could come in contact with the water / wastewater being pumped.



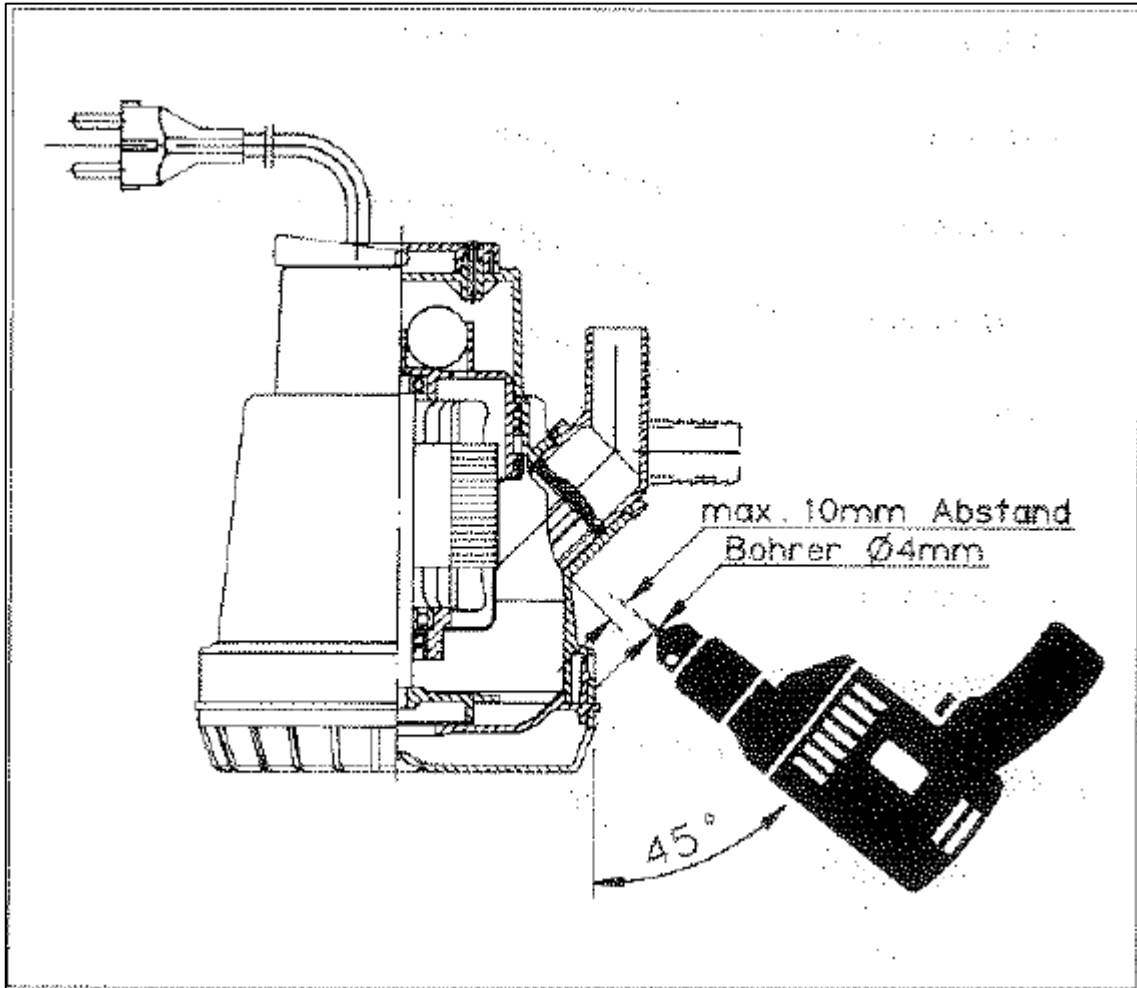
Integrated backflow flap

If and when the KTP 300 is being used in various / non-permanent settings, the integrated backflow flap (located before the outlet as shown in the illustration) may be removed to allow the outlet hose to drain empty. With permanent installations, it is recommended that the backflow flap be used (see illustration). To re-install the backflow flap, unscrew the two screws on the outlet and remove the outlet along with its O-ring seal. Install the backflow flap as seen in the illustration (the small flap must open upwards, away from the pump), replace the O-ring and the outlet, tighten with the two screws.



Ventilation by permanent installations

In order to prevent air pockets from building up inside the pump during permanent installations (which will cause the pump to operate inefficiently) a 4 mm diameter ventilation hole should be drilled on the under portion of the outlet at a 45 degree angle from vertical (see illustration). During operation, small amounts of water / wastewater will flow or spurt out of this ventilation hole (as designed).



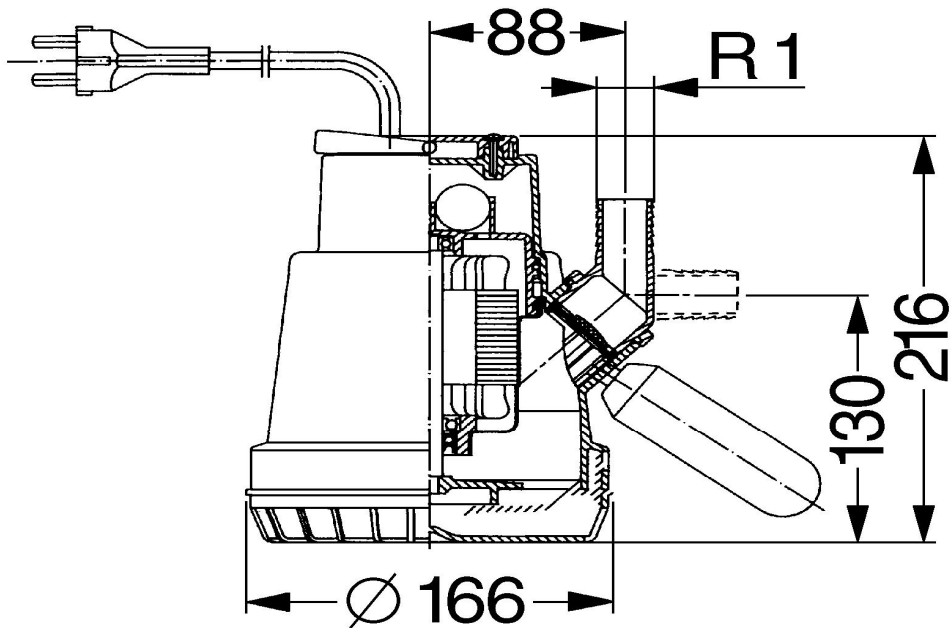
Max. 10mm Abstand = maximum distance 10 mm
Bohrer 4mm = drill bit 4 mm

Technical data

Pump impeller clearance: max. 10 mm

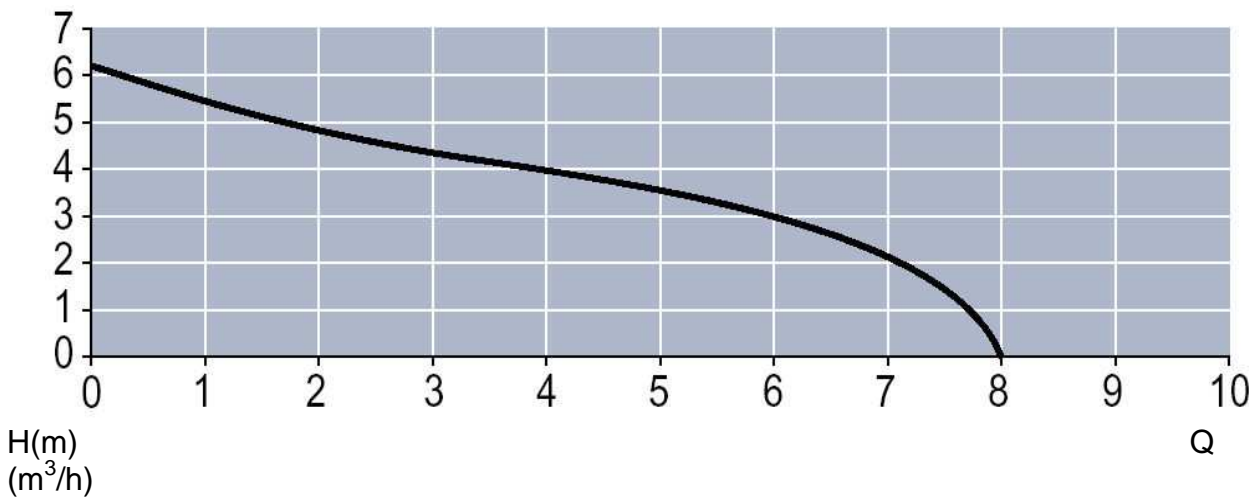
Liquid temperature: max. 70°C for short period (max. 10 min)min⁻¹

Type	Power consumption	Voltage (50Hz)	Nominal current	Running speed	Weight	Cable length
KTP300	0.3 KW	220V	1.9 A	2800 min ⁻¹	4.3 Kg	5/10 m



Performance curve

Height max. ca. 6,5 m --- Volume max. ca. 8700/h



By stationary installation pump performance will decrease slightly.

Maintenance tips

The KESSEL KTP 300 submersible pump has maintenance free, permanently lubricated bearings and an integrated thermal protection switch which offer the pump optimal operational dependability.

Regular inspection and maintenance of the pump is recommended for extended pump life. The intake filter on the bottom of the pump should be inspected and cleaned regularly – especially when the pump comes in contact with dirt / leaves / debris.

Always unplug the pump before conducting any maintenance or inspection work.

Minor wear and tear on the rotor gaskets will occur overtime but is accelerated by the pumping of sand or granulates.

Replacement of the pump's power chord should only be handled by a KESSEL service partner or by KESSEL itself.

Malfunctions

In the case that the pump malfunctions and the problem is undiagnosable by a tradesman, it is recommended that the KESSEL Customer Service department be contacted.

Warning

The manufacturer assumes no responsibility for this product if operational guidance or national local guidelines are not followed.

Guarantee

1. In the case that a KESSEL product is defective, KESSEL has the option of repairing or replacing the product. If the product remains defective after the second attempt to repair or replace the product or it is economically unfeasible to repair or replace the product, the customer has the right to cancel the order / contract or reduce payment accordingly. KESSEL must be notified immediately in writing of defects in a product. In the case that the defect is not visible or difficult to detect, KESSEL must be notified immediately in writing of the defect as soon as it is discovered. If the product is repaired or replaced, the newly repaired or replaced product shall receive a new warranty identical to that which the original (defective) product was granted. The term defective product refers only to the product or part needing repair or replacement and not necessarily to the entire product or unit. KESSEL products are warranted for a period of 24 months. This warranty period begins on the day the product is shipped from KESSEL to its customer. The warranty only applies to newly manufactured products. Additional information can be found in section 377 and 378 of the HGB.

2. Wear and tear on a product will not be considered a defect. Problems with products resulting from improper installation, handling or maintenance will also not be considered a defect.

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Everything for drainage



- Backwater valves and cleanouts
- Polymer and cast iron drains
- Volatile liquid traps
- Lifting stations, pumps, warning and control units
- Rainwater management systems
- Grease separators
- Oil/fuel and coalescence separators
- Inspection chambers
- Custom projects for industrial applications