

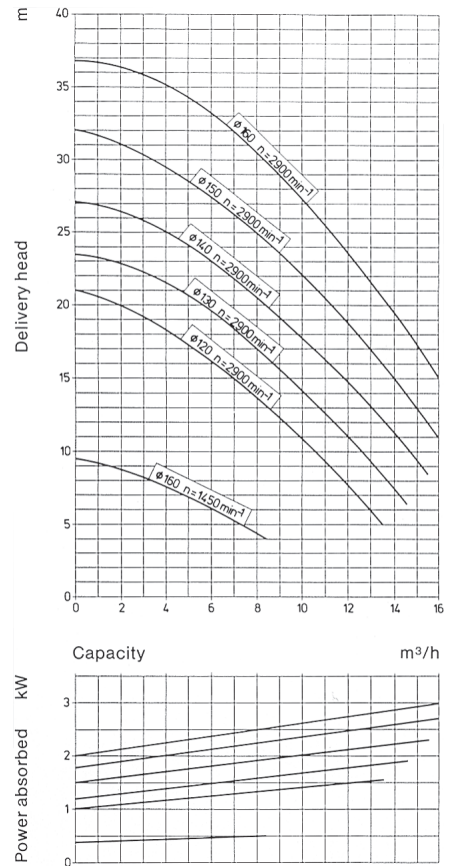
**Vertical Chemical Pump
of Plastic Material
Type VKPF
or VKKF 25-160**



WERNERT-PUMPEN



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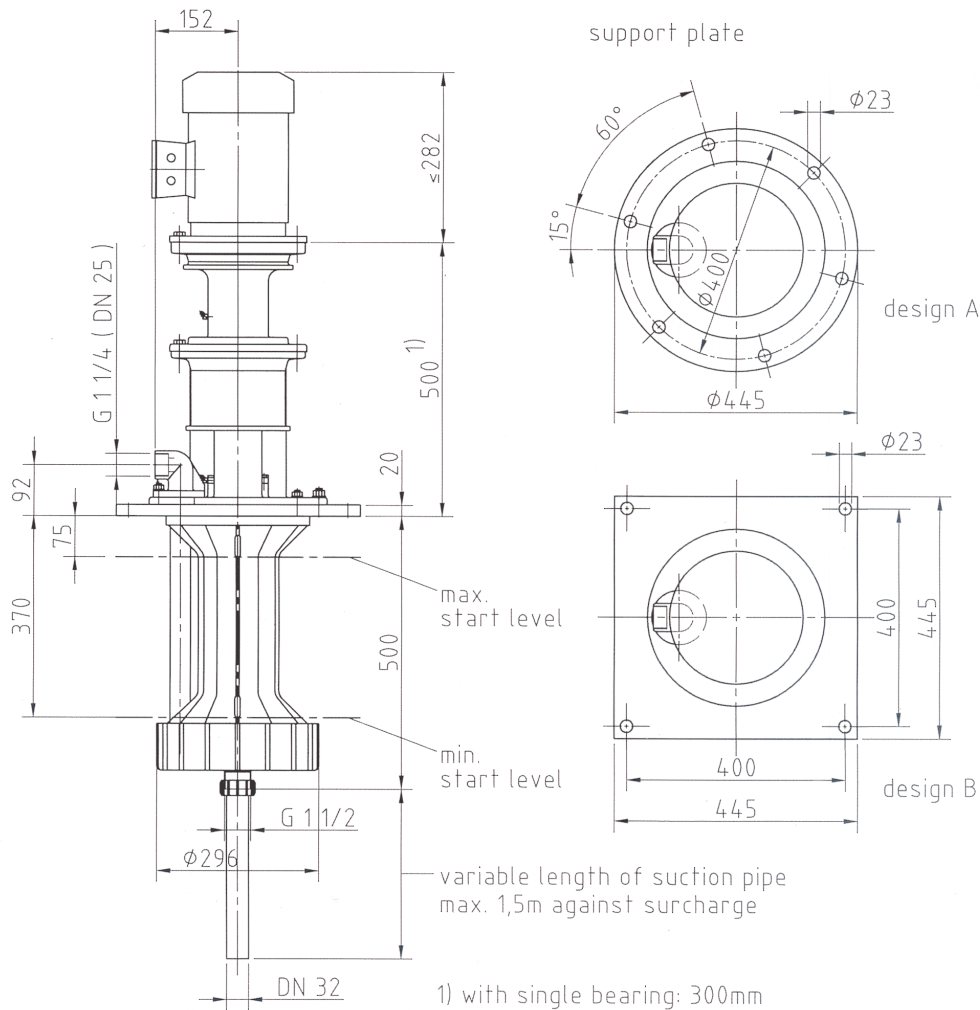


The vertical chemical pumps of our types VKPF and VKKF are manufactured in series. They are specially suited for handling liquids which are chemically aggressive or contaminated with solids.

All parts in contact with the liquid are made of plastic material.

Our type VKPF is made of Polypropylene (PP) whereas type VKKF is manufactured from Polyvinylidene fluoride (PVDF). A maximum liquid temperature of 95 °C and 115 °C resp. is allowed depending on the selected type of plastic.

The shaft bearing is available in single or double bearing.



Our pumps type VKPF and VKKF 25-160 are designed as vertical submersible pumps according to the wellknown and successful two-pipe principle. For achieving better stability suspension pipe and delivery pipe are forming an integral unit.

In the submersible part of the pump there is neither a bearing nor a shaft seal. Impeller and shaft liner of plastic are moulded in one piece around the shaft. Therefore the pump cannot be damaged by starting in the wrong sense of rotation. The supporting flange is provided with an acid resisting lip seal for preventing gases and vapours to penetrate.

As the pump is not selfpriming the liquid level must be above the pump casing when starting (observe "min. start level" in above drawing). With appropriate level control the pump can be started between min. and max. start levels.

During operation the liquid level may drop to a maximum distance of 1.5 m below the pump casing – measured from the suction nozzle to the bottom edge of the suction pipe. Optionally the pump can be supplied with a round or square supporting flange (see drawing above).

The capacity range of the pump is

shown on the previous page diagram right to the pump picture.

These pumps are mainly used in case a comprehensive chemical resistance is required from the material of construction and if shaft seals are presenting problems for reasons of abrasion.

Their chief application is in the chemical industry, in electroplating processes, in waste water treatment and in neutralizing plants for the transfer of acids and alkalies from tanks, open reservoirs or pits.

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