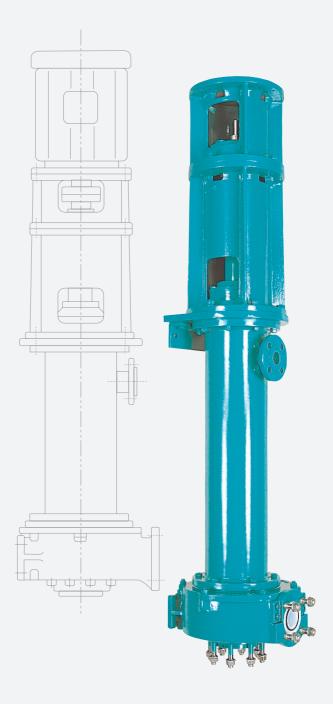
## Vertical Chemical Pump of Plastic Material Type series NKPF

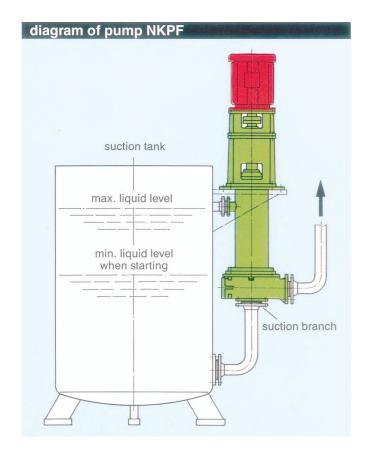


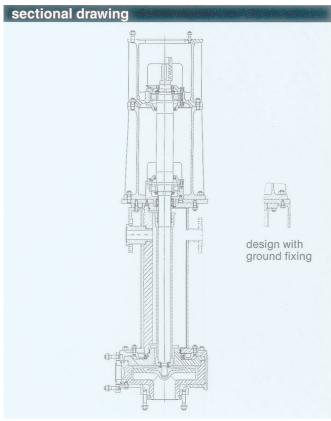




## WERNERT-PUMPEN WERNERT







## **Design and Function**

The WERNERT vertical pump made of plastic material, type NKPF \*), is a single stage centrifugal pump used on the outside of a suction tank.

The distance between the lower bearing and the impeller is governed by constructive and dynamic limits, as the shaft bearings are located only above the maximum suction sided liquid level. (See dimensional drawing). The delivery suspension pipe has an acid resistant inner coating and links the bearing lantern to the pump casing. This pipe may have different acid resistant coatings or the inside may be coated with corresponding plastic parts, e.g. PP or PVDF. (See dimensional drawing). All other constructional elements of this pump are manufactured out of serial parts of standard chemical pumps, type NK and VKPF.

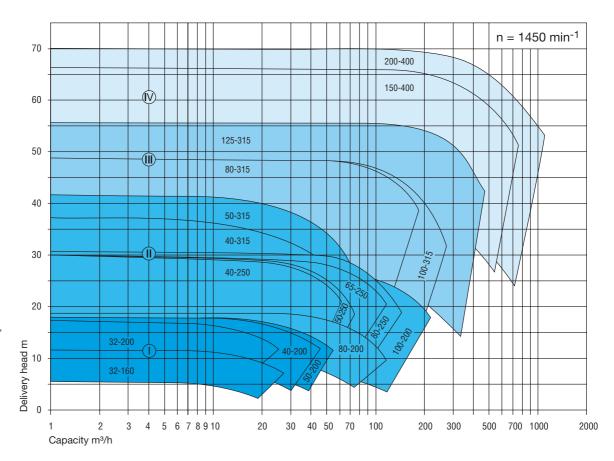
The pump has the stability of a comparable metallic pump, due to the outer metallic constructional elements. Consequently, forces and moments can be imposed at the pump branches similar to those occuring in the pumps made of cast iron.

Neither a bearing nor a shaft seal is required in the liquid region of the pump. As a result there is no danger in case of dry running for a short time or if inadmissible suction conditions occur. The shaft drilling of the casing is hydraulically discharged by the back vanes of the impeller. The suction sided liquid level must be above the impeller before starting, as the pump is not self priming. (See diagram of pump). However, after startig the suction operation may be commenced. Below the gas seal, which is superposed on the lower bearing, there is an emergency overflow branch. Liquid rising in the delivery suspension pipe, caused by starting thrusts, is lead through this branch above the maximum suction sided liquid level back to the suction tank.

## **Application**

A further advantage of this pump in addition to its capability of dry running for a short time, is the small space required due to the absence of a ground •plate. Delivery head and capacity are identical with corresponding standard chemical pumps in the range. (See opposite performance diagrams). The pump, having no shaft seal problems which may occur with horizontal pumps, is especially suitable for delivery of suspensions, oversaturated solutions and corrosive liquids being subject to sedimentation at wetted areas.





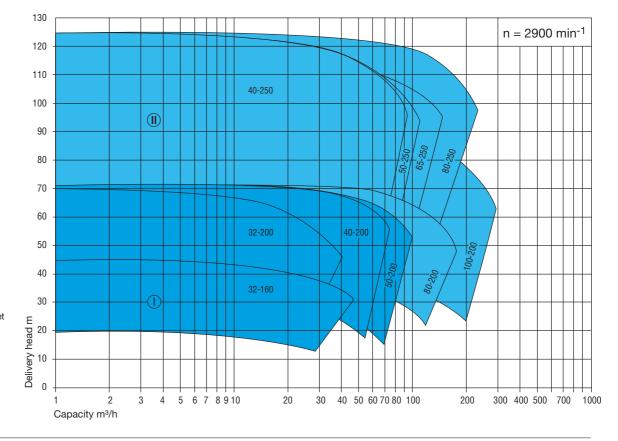
Largest pump manufactured in series, NKPF 125-315, size III. Larger sizes are of special design.







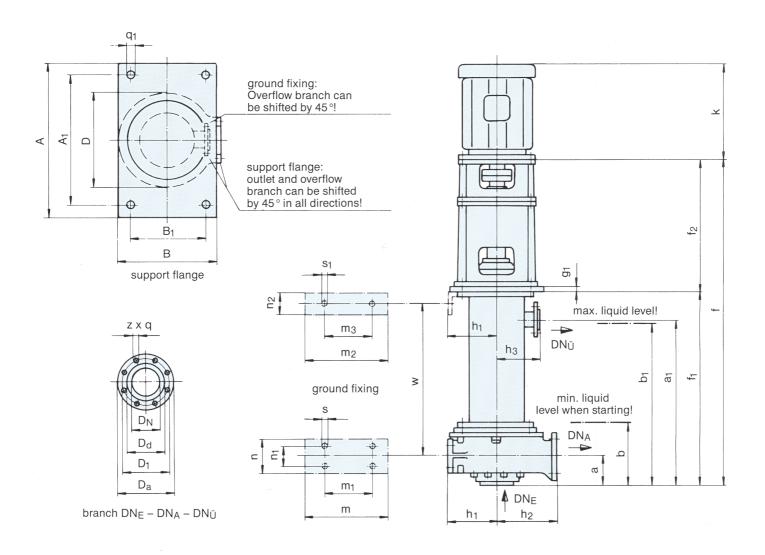
pump with same size

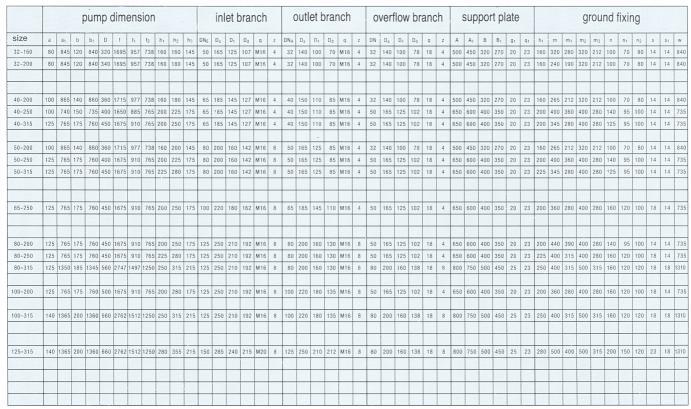


For requirements beyond standard performances, kindly let us have your inquiry. Subject to change.



pump with same size





Dimensions in mm



