

DP-PUMPS EXTENDS RANGE OF HIGH-GRADE VERTICAL MULTISTAGE IN-LINE CENTRIFUGAL PUMPS

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With the introduction of the DPLS 32 and DPLS 45 series, DP-Pumps B. V., of Alphen a/d Rijn¹ (the Netherlands), has extended its range of vertical multistage in-line centrifugal pumps.

The new pumps in the DPLS 32 series are supplied in 13 models, in which the number of impellers varies from 1 to 16. The maximum capacity is 35 m³/h and the maximum head is 2350 kPa. The output of the electric drive motor varies from 1.5 kW for the smallest model to 22 kW for the largest. The two-pole motors are supplied in 50 Hz and 60 Hz versions.

The DPLS 45 series pumps are supplied in 10 models, in which the number of impellers varies from 1 to 10. In these types, the maximum capacity is 50 m³/h and the maximum head is 1520 kPa. The output at 2850 RPM is 2.2 kW for the smallest model and 18.5 kW for the largest.

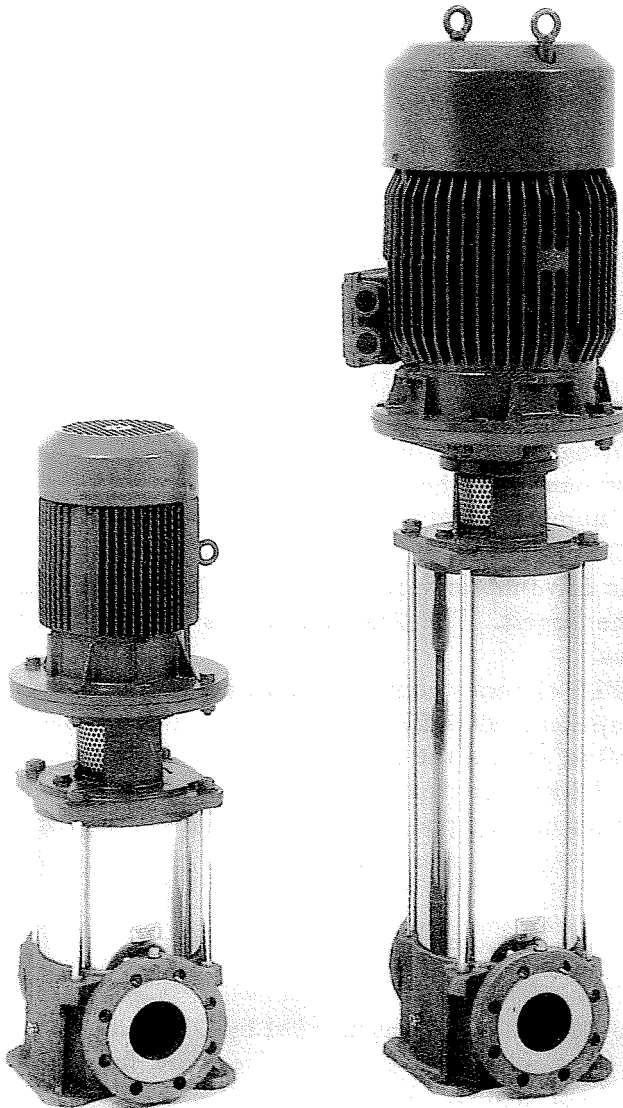
The motors are equipped with heavy-duty bearings for an extra-long service life.

High-grade Materials

Pumps of the DPLS series manufactured by DP-Pumps have a pump-foot made of a 316 stainless steel casting. The shaft, impellers, diffusers and sleeve are made of 316 stainless steel.

The shaft seal of the pumps in both series is made of carbon/ceramic-Viton for the types with 1 to 7 stages, and for 8 to 16 stages it is made of carbon/silicon-carbide Viton. The bearings are made of ceramic/tungsten.

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In the DPLS series of pumps, all parts that come into contact with the medium pumped are made of stainless steel.

The stainless steel used is extremely corrosion resistant and in addition it features an extremely low surface roughness with irregularities smaller than 0.001 mm, thereby guaranteeing high efficiency.

An important feature of the in-line centrifugal pumps manufactured by DP-Pumps is that the lowest bearing is positioned above the lowest impeller. The bearing is therefore not exposed directly to wear by impurities in the liquid pumped or by possible cavitation.

An essential advantage of the in-line design of the pumps is that mechanical forces occurring in the pipework are unable to affect the rotating part of the pumps.

Specific advantages of the vertical construction are the quiet operation of the pumps and the small floor surface requirement. The in-line principle enables an uninterrupted pipe configuration.

DPLS pumps are of normal-suction design and are suitable for continuous operation with virtually zero maintenance.

Applications

The use of very high-grade materials makes the DPLS type pumps suitable for applications subject to very severe demands and standards. DPLS pumps by DP-Pumps are in particular suitable for handling slightly aggressive liquids such as waste-water, demineralized and distilled water, brackish water and sea-water.

Areas of application are especially water treatment (reverse osmosis), the food and chemical industries, process engineering in general, and also substrate growing in glasshouse horticulture. The pumps are also employed in laboratories, marine applications and for sea-water transportation systems.

DP-Pumps is the largest serial pump manufacturer in the Netherlands, and one of the world's largest manufacturers of vertical stainless steel pumps. DP-Pumps is certified to the ISO 9001 quality standards.