



Ws+ Self-Priming Pump

The Ws+ pump series is an exciting new addition to APV's range of self-priming pumps. It replaces the well-known ZMS series, which has proven successful for many years.

The Ws+ is designed to handle fluids mixed with air or foam significantly better and with greater efficiency than standard self-priming pumps.

Furthermore, the new design is vastly superior to other pumps on the market.

The Ws+ pump works according to the water ring principle. However, unlike traditional self-priming pumps, the Ws+ is equipped with an open impeller which ensures a flexible flow range. The self-priming effect is obtained by means of an air screw mounted on the pump inlet.

Features and Benefits

- **Improved hydraulic performance:** While the hydraulic performance is similar to that of the well-known W+ centrifugal pump series, the changeable impeller size increases the volumetric performance significantly.
- **Optimization possibilities:** The Ws+ series can be optimized in the same way as a conventional centrifugal pump (W+) for "customer designed" pump performance.
- **Higher efficiency:** The efficiency of the pump is increased compared to other self priming pumps by 25-90%.
- **Lower noise level:** Due to its hydraulic design, the noise level of the Ws+ is significantly lower than traditional liquid ring pumps.
- **3A and EHEDG approved:** Approved by the European Hygienic Equipment Design Group as a hygienic pump.
- **Interchangeable with W+ parts:** To reduce inventory cost the Ws+ series is based on the W+ design so that all commonly used spare parts are the same e.g. shaft seals, O-rings etc.
- **Horizontal inlet:** This is particularly useful in CIP applications. (Conventional self-priming pumps all have vertical inlet).
- **Less prone to damage by small objects:** Minimized risk of particles damaging the impellers.

