

# Tuchenhagen®-VARIFLOW Self-priming Centrifugal Pump Series TPS

**NEW**

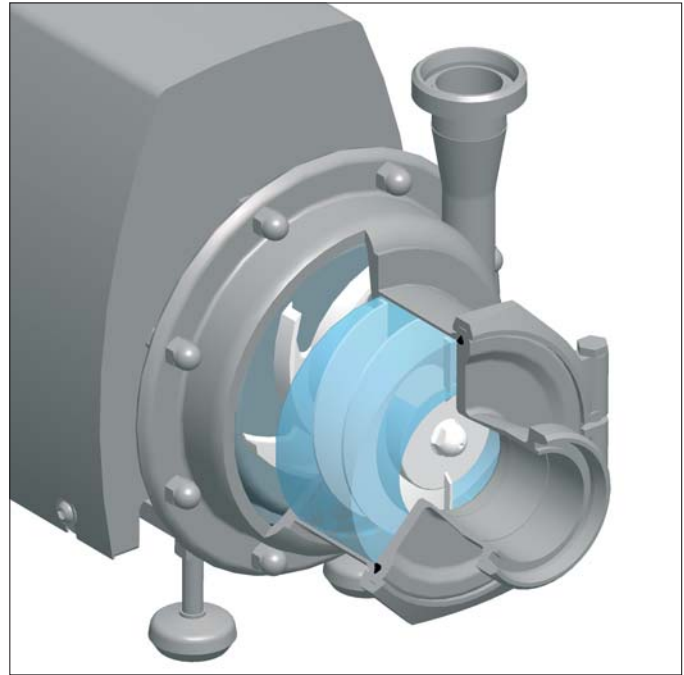


**A new generation of hygienic, self-priming centrifugal pumps capable of conveying gases:  
Tuchenhagen®-VARIFLOW centrifugal pumps, TPS series.**

By combining the existing Tuchenhagen®-VARIFLOW TP series with a screw rotor, a new generation of hygienic self-priming centrifugal pumps has been created. The new Tuchenhagen®-VARIFLOW TPS series conveys products containing a large amount of gas. It is characterized by a low sound power level, high efficiency and optimal cleaning properties. This TPS series also permits evacuation of pipes on the suction side – just one pump only for CIP return and product conveying. The new TPS series is used for CIP return applications, for emptying tanks as well as for conveying products containing gas.

**The benefits of the Tuchenhagen®-VARIFLOW TPS series at a glance:**

- **Only one pump for CIP return and product conveying**  
Control by frequency converter and impeller trimming is possible
- **Lower noise power level**  
Not generally louder than a non self-priming centrifugal pump
- **Very good cleaning properties**  
Dead space free design
- **Very high efficiency**  
Maximum can be higher than 40%
- **Less sensitive to particles in the product flow**  
Larger gap dimensions than liquid ring pumps
- **Gentle product handling**  
Stream lined impeller blades
- **Wearing parts identical with TP series**  
Less wearing parts need to be stocked
- **Retrofitting to existing TP pumps is possible**  
TP modular system



**Design:** Combination of the normal priming centrifugal pump (series TP) with axial screw rotor device.

**Working Principle:** The screw rotor creates a liquid ring between rotor screw and rotor housing. The liquid ring is sealing the rotor to the rotor housing. Gases will be centered at the rotor and being transported by the rotor blades through the pump.

**Gas Amount:** from 0 to 100%

**Pump Selection:** acc. Performance Curve (100% Liquid)

**Performance:** max. up to 60 m<sup>3</sup>/h  
max. up to 60 m

**Your Contact**



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