

SEZ, SEZT, PHZ, PNZ – Vertical Tubular Casing Pumps



Applications:

- Provision of seawater for desalination systems
- Cooling water systems in power stations and industrial plants
- Water extraction for flue gas desulphurisation
- Water extraction and drainage in low-list pumping stations

More informations:
www.ksb.com/products

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High-quality materials ensure high level of availability

- Every pump comes with KSB's specially developed RESIDUR® bearings: wearresistant, maintenance-free and medium-lubricated.
- Alternative design with polymer plastic bearings (Thordon) possible.

Efficient water supply thanks to individual pump selection

Selection of tailor-made pumps from a modular design system covering a wide range of hydraulic systems, materials and installation types. High efficiencies and excellent NPSH characteristics help reduce the system's life cycle costs.

Economically efficient adjustment ...

... to match changes in system conditions (flow rate/head) by means of pre-swirl control equipment or variable speed drives (SEZ) or by adjusting the axial propeller both during operation and during standstill (PNZ/PHZ).

Optimised pump design reduces maintenance costs

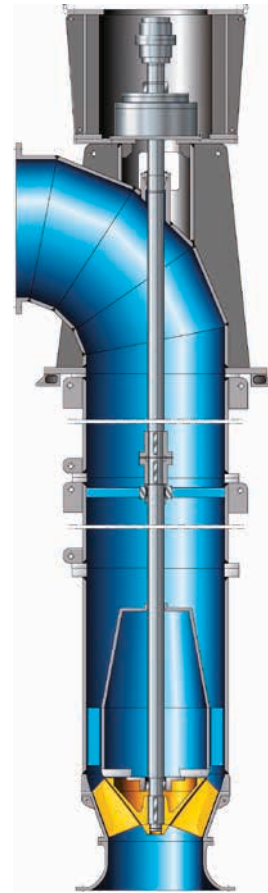
KSB tubular casing pumps are available in two design variants. Pumps in pull-out design allow straightforward removal and maintenance of all parts subject to wear and tear.

Customised pump design ...

... adapted to existing structures and systems. Various customised solutions with special elbow angles, seals, 45 degree horizontal pumps and floor installation are possible.

One-stop shopping with KSB's engineering package:

- High-quality pump technology
- In-house test stand for performance tests
- After-sales and service
- Model testing of intake structures
- Expert consultancy for system planning and project management



Fluid pumped	Fresh water ≤ 28 °C
Standard material	Casing grey cast iron / steel Impeller CrNi steel Shaft carbon steel
Fluid pumped	Seawater ≤ 35 °C
Standard material	Casing duplex steel Impeller duplex steel Shaft duplex steel
Fluid pumped	Seawater 35 °C - 40 °C
Standard material	Casing super duplex steel Impeller super duplex steel Shaft super duplex steel

In addition, there is also active cathode protection for stainless steel pumps and sacrificial anodes for steel pumps with coating.

Technical data	SEZ / SEZT	PHZ	PNZ
max. flow rate* [m³/s]	22	18	18
max. head* [m]	60 / 120	25	15
max. fluid temperature [°C]	40	40	40
max. speed [min⁻¹]	980	980	980

*Higher flow rates, pump heads and temperatures on request



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