



# VTP and VPC Vertical Turbine Pumps

## Value meets versatility

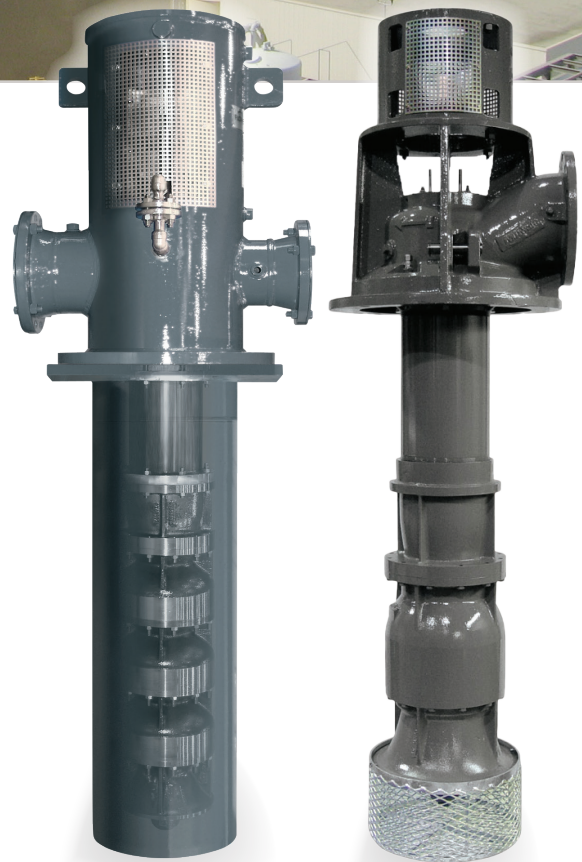
With more than 250 models available, Flowserve VTP and VPC pumps are one of the world's most comprehensive lines of vertical turbine pumps. Multiple design configurations and broad hydraulic coverage ensure a cost-effective solution that precisely meets application requirements.

Among the world's most widely used pumps, Flowserve vertical turbine pumps can be found in a variety of applications throughout the oil and gas, water resource, power and general industry markets. Using Design to Value methods, Flowserve enhanced pump functionality to offer even more value to customers in the water resource and general industry markets.



Flowserve continues its industry-leading performance, now with more design flexibility and increased customer value, including:

- **Engineered flexibility:** Customized configurations are available to meet the requirements of a diverse range of applications.
- **Unsurpassed hydraulic coverage:** Extensive hydraulic coverage meets any duty condition requirement.
- **In-depth pump analyses:** A full array of structural (reed critical frequency, nozzle loads, seismic calculations), rotor dynamic (torsional, lateral) and thermal analyses are available to optimize pump performance and reliability.
- **Shorter lead times:** Standardized designs allow for quick turnarounds.
- **Global design with regional features:** The product line is built around one trusted design with custom features that are unique to demands throughout the world.
- **Wide range of material options:** Customers can select from numerous materials, including iron, bronze, steel, stainless steel and super duplex, to maximize pump life in a variety of applications.
- **Local presence:** Multiple VTP manufacturing facilities located worldwide enable a seamless buying experience.



## Incorporating customer insights to enhance product development

The Design to Value process is a collaborative approach for developing new products and enhancing existing products. Voice-of-customer insights ensure user expectations and needs are properly addressed. To improve value and functionality, Flowserve designs products that are optimized, longer-lasting, more cost-effective, energy-efficient and customizable.

## Applications

Vertical turbine pumps are used in a wide range of applications, including:

- Intake water
- Circulating water
- Cooling water
- Irrigation
- Municipal water
- Chemical processing
- Storm water
- Oil and gas production
- Hydrocarbon booster
- Hydrocarbon transfer
- Pipeline booster
- Petrochemical transfer
- Condensate
- Water supply
- Water transfer
- Snowmaking
- Brine injection



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Flowserve Corporation has established industry leadership in the design and manufacture of its products. When properly selected, this Flowserve product is designed to perform its intended function safely during its useful life. However, the purchaser or user of Flowserve products should be aware that Flowserve products might be used in numerous applications under a wide variety of industrial service conditions. Although Flowserve can provide general guidelines, it cannot provide specific data and warnings for all possible applications. The purchaser/user must therefore assume the ultimate responsibility for the proper sizing and selection, installation, operation, and maintenance of Flowserve products. The purchaser/user should read and understand the Installation Instructions included with the product, and train its employees and contractors in the safe use of Flowserve products in connection with the specific application.

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