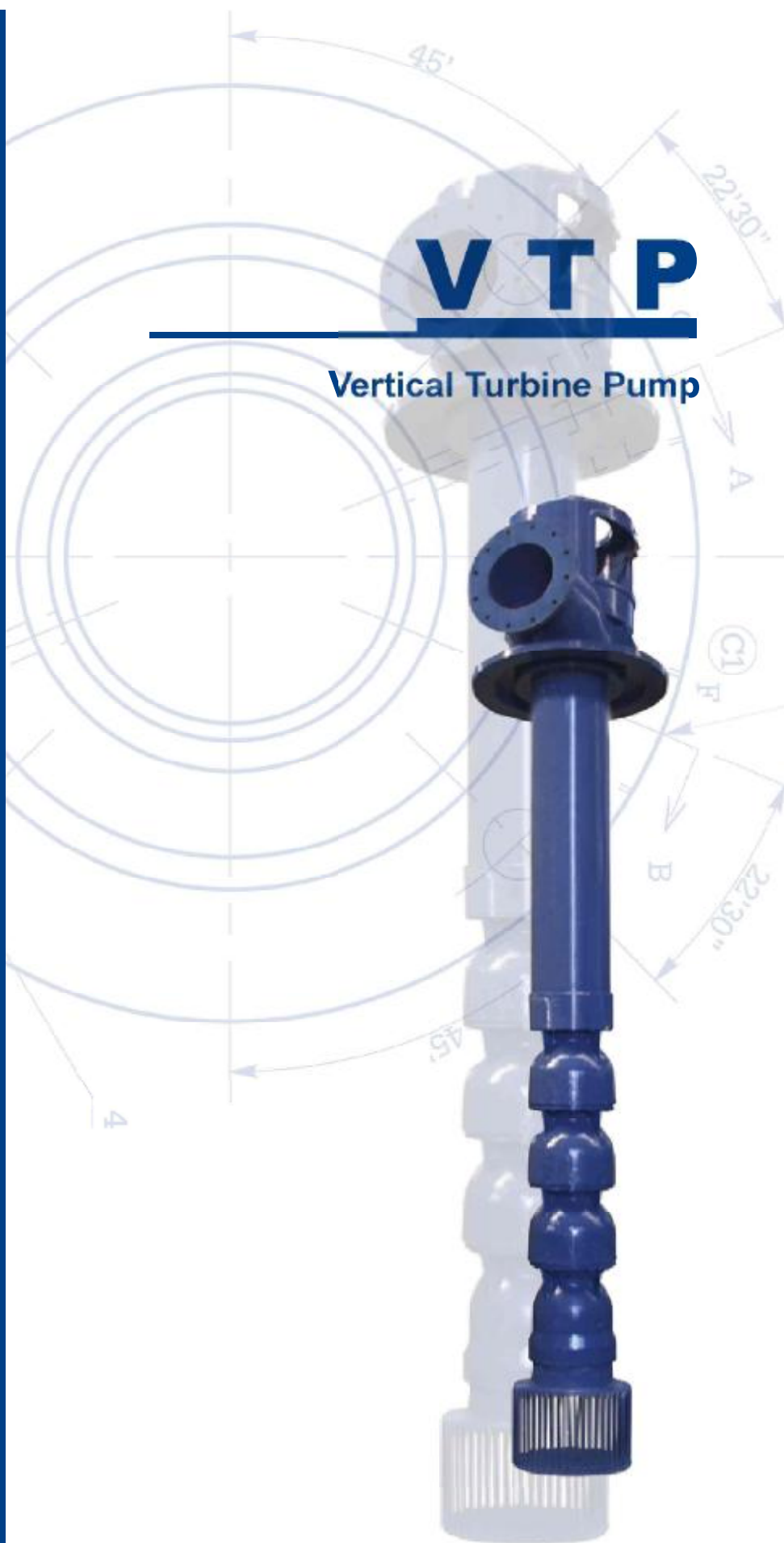


V T P

Vertical Turbine Pump



V T P

Vertical Turbine Pump

For over 50 years the name Ruhrpumpen has been synonymous worldwide with innovation and reliability for pumping technology.

The VTP pumps are normally designed to operate in wells or sumps. The bowl assembly consists primarily of a suction case or bell, one or more pump bowls, and a discharge case. The number of stages (bowls) employed is determined by the head requirements of the installation. The pump bowl assembly is positioned in the sump or well at a depth to provide the proper submergence. A pump shaft, common to all moving parts in the bowl assembly, provides mechanical linkage to the pump driver unit.

Two basic configurations of the bowl assembly are the open type and the enclosed type. Functional differences in the two types are in the methods employed to lubricate the line shaft. In the enclosed type, a tube is placed over the line shaft and lubricants are supplied to the bearings through the shaft tube. In the open type, no lubricants are used other than the fluid being pumped.

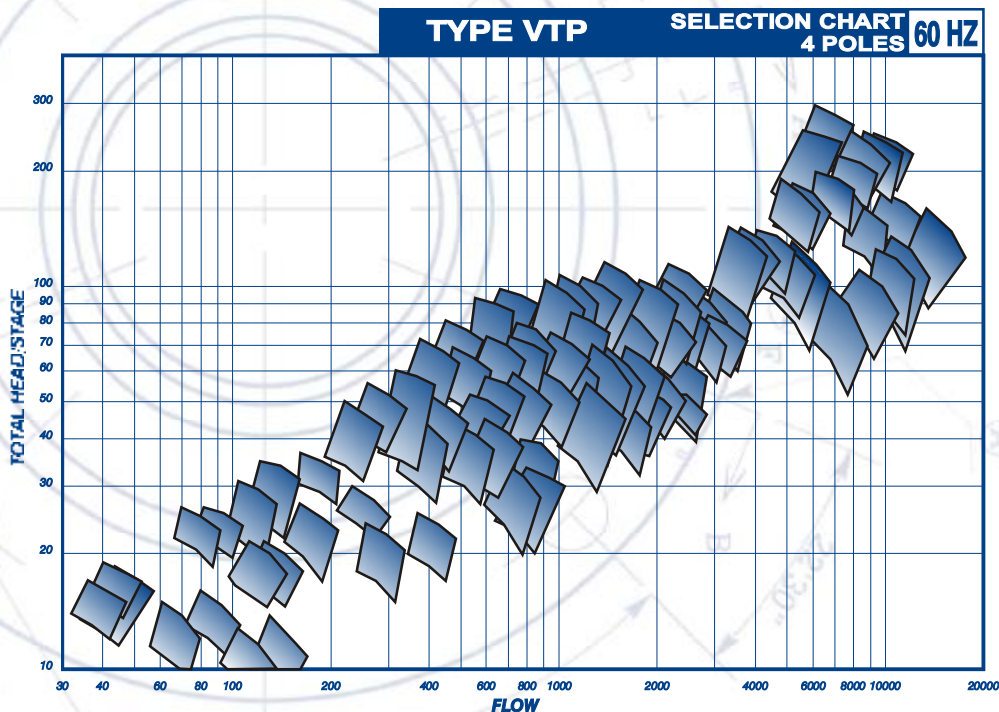
Qualified specialists in all departments ensure that the pumps and equipment from our facilities are able to operate under the most arduous conditions.

Intensive research and development ensures that the products of Ruhrpumpen are continuously improved to meet the latest technical requirements.

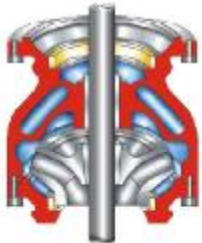
It is only possible to achieve these aims by means of highly sophisticated CNC controlled machines in our modern machine shop, supplemented by our test and development departments as well as the latest industry standard inspection and control procedures. All in our ISO 9001 certified facilities.

The application of modern, reliable methods, data processing and sophisticated software with high performance, decentralized computers and personal computers offers our customers high reliability and speed in all working processes, from planning and production to the providing of spare parts.

The instant availability of spare parts, together with first class service, ensures customers that they have selected the right partner.



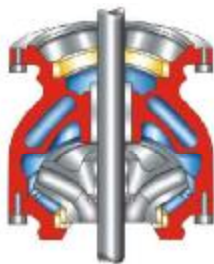
Vertical Turbine Pump



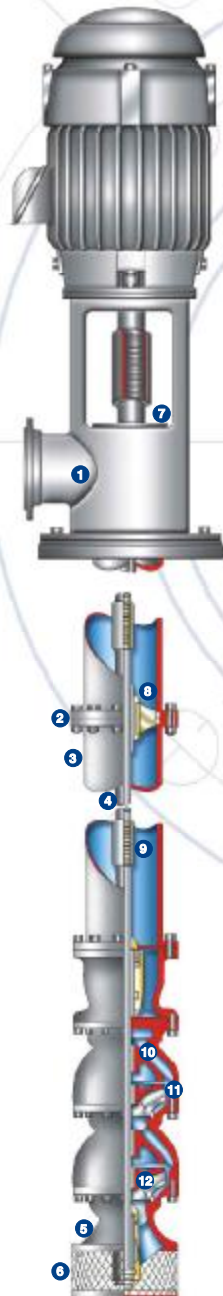
Standard cast iron bowl construction includes internal passages coated with porcelain enamel to provide maximum wear resistance and reduced friction.



Enclosed impeller design maintains high efficiency and eliminates critical field adjustments required with semi-open or open impeller construction.



Optional construction features includes bowl and impeller wear ring, and impeller keyed to shaft for longer life and less maintenance.



- 1 Discharge head provides support for entire pump and column assembly. Available in cast iron or fabricated steel.
- 2 Column connections flanged or threaded. Standard flange connections include replaceable bearing retainer.
- 3 Column assembly is manufactured in-plant to assure accurate fit. Available in different materials and coatings.
- 4 Line shaft turned, ground, and polished carbon steel with ends faced and threaded. Other materials available for special applications.
- 5 Suction bell is cast iron with integral straightening vanes to prevent turbulence. Other materials available for special applications. Some pump models are supplied with entrance case.
- 6 Strainer (optional) prevents entry of foreign objects into pump suction. Strainer can be basket or conic type according applications.
- 7 Machined stuffing box with bushing to guide shaft.
- 8 Bearings are available in a variety of materials to meet pumping needs.
- 9 Shaft couplings bored and threaded from steel stock.
- 10 Sleeve bearings operate in conjunction with pump shaft to provide long life and low friction.
- 11 Enclosed impellers are designed for long life and high efficiency. Each is precision machined and balanced for vibration free operation.
- 12 Standard tapered collet secures impeller to pump shaft. Keyed impeller connections are available.

Performance Data

Capacity	To 30000 U.S. gpm	6820 m ³ /hr.
Head	To 1500 ft	450 m
Pressure	To 650 ft	74 bars
Temperature	250° F	121° C

Product Description

Multi-stage vertical centrifugal pumps with difuser type bowl.
 Francis vane enclosed impellers.
 Counter clockwise rotation viewed from coupling end.
 Product lubricated or oil lubrication.
 Large bowl shaft sizing provides longer life.
 Enameled bowls 5" thru 15".

Broad Application Range

Deep well & irrigation.
 Sumps, condensate (can pump).
 Fire service.
 Municipal.
 Industrial.

Other Ruhrpumpen Products

**API 610
Between Bearings
Radial Split Single Stage**



**API 610
Multistage**



**Axially
Split**



**Vertical
Circulating**



**Vertical
Double Suction**



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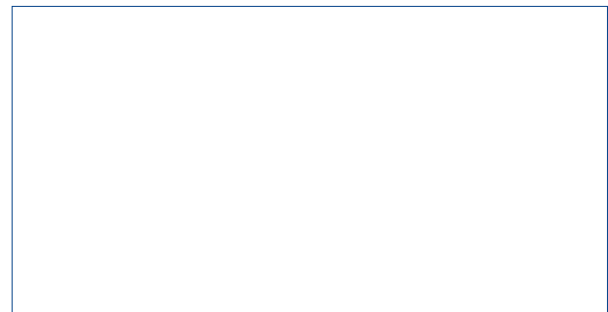
A/August/02



Specialist for Pumping Technology

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