

VLT

**Vertical Process Pump
API 610**



VLT

Vertical Process Pump

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

The VLT is a vertical process pump of the “double casing” type as defined by API-610. By multi-staging series stages in the medium specific speed design range, the VLT provides outstanding efficiencies and low cost operation in high head applications. The special first stage allows operation with extremely low NPSH requirements while running at optimum speeds. Exclusive hydraulic and mechanical features provide continuing reliability with optimum performance.

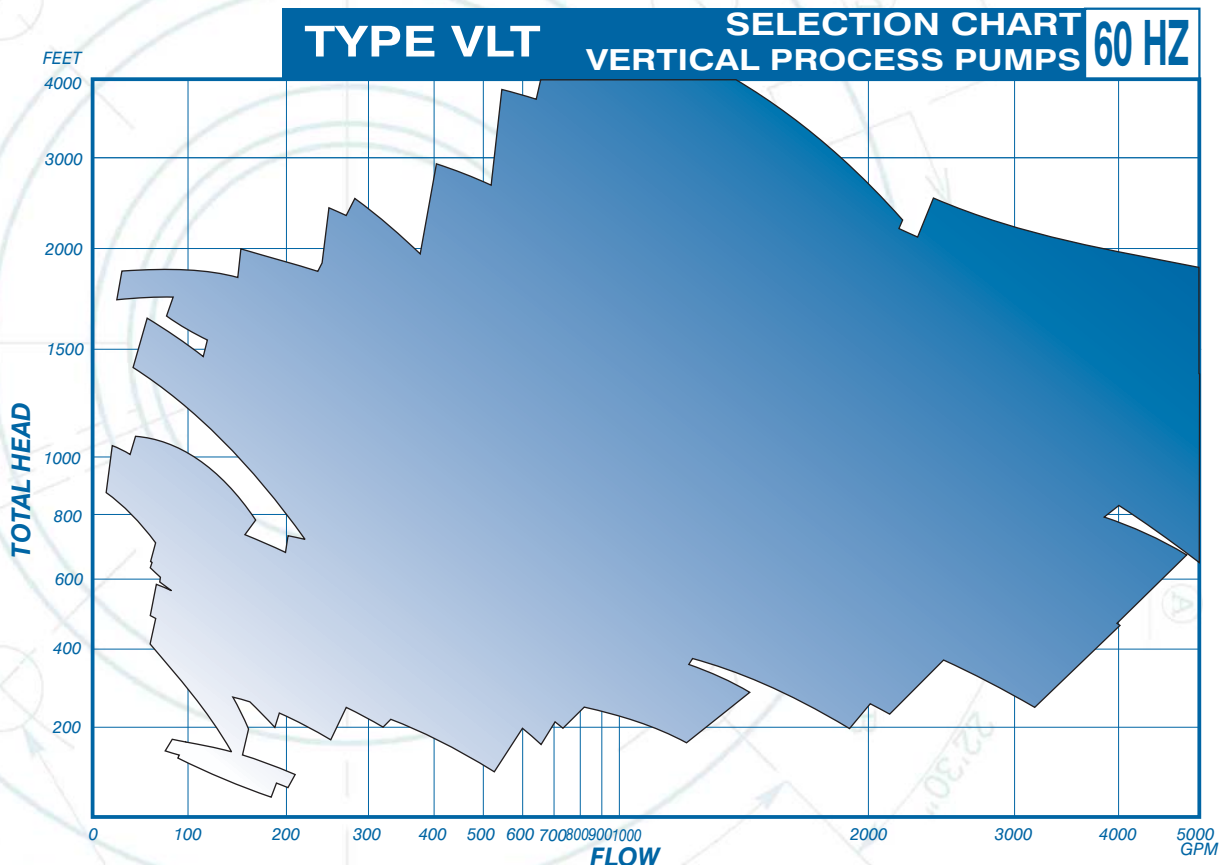
Qualified specialists in all departments ensure that the pumps and equipment from our facilities are able to operate under the most arduous conditions.

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

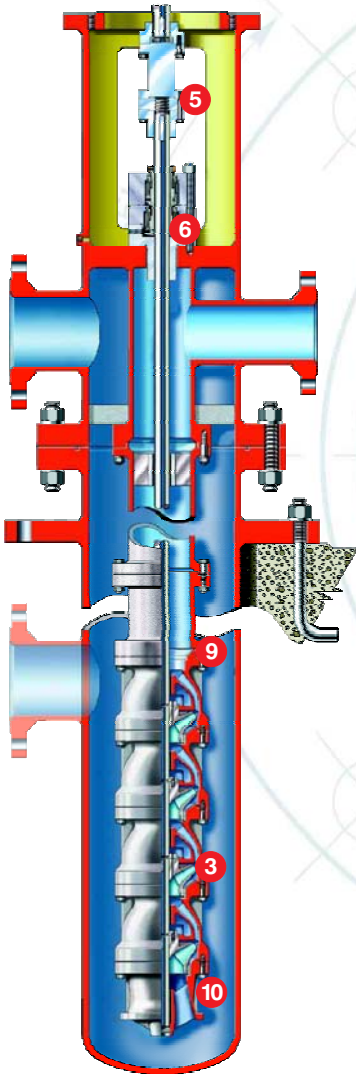
It is only possible to achieve these aims by means of highly sophisticated CNC controlled machines in our modern machine shop, supplemented by our test and development departments as well as the latest industry standard inspection and control procedures. All in our ISO 9001 certified facilities.

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 Process Pump



- 1 **Lower overall cost.** Cost reduction can be achieved by replacing traditional horizontal centrifugal and reciprocating pumps with Ruhrpumpen VLT pumps resulting in lower connected horsepower, while keeping floor space to a minimum.
- 2 **Less downtime.** Column piece are designed so that Shaft critical speeds (Bearing Spans) are within API 610 last edition requirements. All bearing retainers are integrally fabricated into the column sections for alignment and concentricity.
- 3 **Unsurpassed low NPSH.** Designed to match series stage flow rates, the exclusive between bearing first stage impeller design provides shockless fluid entry with optimized eye/vane inlet angles, not to be confused with so called "large eye impellers".
- 4 **Easy to install.** Most pumps are shipped completely assembled (less driver and suction barrel). Field installation is simplified.
- 5 **Coupling.** All metal, four piece adjustable coupling for solid shaft drivers. Spacer in coupling also serves to facilitate seal cartridge removal for servicing.
- 6 **Longer seal life.** Mechanical seal is located in full flow of discharge for positive lubrication-cooling and is inherently self-venting and self-cleaning. Water jacketed, bleed-off stuffing boxes are also available.
- 7 **High pressure temperature.** The VLT is specifically suited for volatile liquids near their vapor pressure.
- 8 **API-610 option.** Ruhrpumpen vertical process pumps have led the petroleum industry since 1950 with the fully compliant API 610 pumps. In-head thrust bearing assemblies is also an option.
- 9 **No leaking.** O-Ring gaskets throughout allow metal-to-metal rabbeted fits between all components.
- 10 **No additional cost.** Graphite-babbet alloy bearings are standard throughout this pump.
- 11 Design available for non Hydrocarbon Applications.

Product Description

- ✓ Low NPSH "Shockless Entry" first stage impeller.
- ✓ Integral fabricated column support bearings.
- ✓ Collet or ring and key impeller mounting.
- ✓ One-piece shaft construction for shaft lengths to 20 ft (6m).
- ✓ Rigid 4-piece coupling.
- ✓ Fabrications manufactured using ASME Section IX code qualified welders for API applications.
- ✓ Fabrications designed to national standards when required.
- ✓ Wide range of hydraulic designs to suit all applications.
- ✓ Choice of bearings and mechanical seals.
- ✓ Pump mounted thrust bearing when required.
- ✓ Tank or sump mount options available.

Performance Data

Capacity	To 7000 U.S. gpm	1600 m ³ /hr.
Head	To 4000 feet	1220 m
Pressure	To 1500 psi	100 bars
Max. Temp.	1050°F	565°C
Min. Temp.	-320°F	-196°C
Horsepower	1600 HP	1200 kW

Other Ruhrpumpen Products

**Horizontal
Centrifugal Pump
Foot Mounted**



**Vertical
Turbine Pump**



**Horizontal
Split Case**



**API 610
Overhung Radial Split**



**UL/FM
Firewater Pumps**



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