Ruhrpumpen is an innovative and efficient centrifugal pump technology company that offers a wide range of quality products to our clients. Ruhrpumpen is committed to global excellence with a complete range of Pumps, Fire Pump Packages and related products, such as Decoking Systems and Tools to support the core markets, namely Oil & Gas, Petrochemical, Power, Heavy Industry Applications, Mining and Water Services.

The broad product line complies with the most demanding quality specifications and goes beyond stringent industry standards such as API, ANSI, Hydraulic Institute, Underwriter’s Laboratories, Factory Mutual and ISO 9001.

Ruhrpumpen is a vertically integrated company with its own foundry, machine shop, pump manufacturing plants and service centers. With strategically located manufacturing plants, operating offices and service centers in many parts of the world, Ruhrpumpen is truly a global pump company which also has the strength to focus on the local necessities of each client.

**VLT / VMT Pumps**

The VLT / VMT pumps are vertical process pumps of the “double casing” type as defined by API-610. By multi-staging series stages in the medium specific speed design range, the VLT / VMT pumps provide 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.

Ruhrpumpen vertical process pumps have led the market since the 1950’s. These pumps can be offered as fully API 610 (latest edition) compliant, in cryogenic services for low temperature applications and Non-API condensate services.
Vertical Canned Process Pump

1. **COUPLING**
   - All metal, four piece adjustable for solid shaft drivers.

2. **LONGER SEAL LIFE**
   - Mechanical seal is located in full discharge flow for positive lubrication-cooling and is inherently self-venting and self-cleaning.

3. **O-RING GASKETS**
   - Throughout allow metal-to-metal rabbeted fits between all components.

4. **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 the typical “large eye impellers”.

5. **HIGH QUALITY GUIDE BEARINGS**
   - Ruhrpumpen has extensive experience with other non-metallic bearings such as VESPEL for these Pumps.

6. **DOUBLE SUCTION**
   - First Stage Bowl Assembly optional.

Images for general arrangement use only, not certified for construction.

**VLT PERFORMANCE DATA**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>100 to 1,600 m³/h</td>
<td>7,000 U.S. gpm</td>
</tr>
<tr>
<td>Head</td>
<td>up to 1,494 m</td>
<td>4,900 ft</td>
</tr>
<tr>
<td>Pressure</td>
<td>up to 140 bar</td>
<td>2,020 psig</td>
</tr>
<tr>
<td>Temperature</td>
<td>-195 °C to 565 °C</td>
<td>-320 °F to 1,050 °F</td>
</tr>
</tbody>
</table>

**VMT PERFORMANCE DATA**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>up to 9,500 m³/h</td>
<td>45,000 U.S. gpm</td>
</tr>
<tr>
<td>Head</td>
<td>up to 900 m</td>
<td>3,000 ft</td>
</tr>
<tr>
<td>Pressure</td>
<td>up to 90 bar</td>
<td>1,300 psig</td>
</tr>
<tr>
<td>Temperature</td>
<td>up to 815 °C</td>
<td>1,500 °F</td>
</tr>
</tbody>
</table>

Note: For pump operation outside this range, please contact a Ruhrpumpen representative.
RUHRPUMPEN PLANTS

- USA, Tulsa & Orland
- MEXICO, Monterrey
- BRAZIL, Rio De Janeiro
- ARGENTINA, Buenos Aires
- GERMANY, Witten
- EGYPT, Suez
- INDIA, Chennai
- CHINA, Changzhou
- UK, Lancing