SWP
Self-priming pump for solids handling applications
The SWP line is a self priming pump that can handle clear liquids or with solids. Its large volute design allows automatic repriming in a completely open system without the need for suction or discharge check valves.

These type of pumps are designed to allow an simplified maintenance of the pump with the use of common hand tools and having easy access to its interior parts such as the impeller and the seal for a simple maintenance therefore reducing operating costs.

These pumps are ideal for waste handling applications and sewage handling applications in industries such as paper, agricultural, construction, automotive, and many others.

For more than 60 years the name Ruhrpumpen™ has been synonymous worldwide with innovation and reliability for pumping technology

Ruhrpumpen is an innovative and efficient centrifugal pump technology company that offers operators of Pump Systems and a wide range of quality products. 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.

The SWP Self Priming Pumps

THE SWP PUMPS CAN LIFT FLUIDS UP TO 27 ft
Removable Rotating Assembly

Pusher bolt holes allow for removal of the rotating assembly without disturbing the piping.

Selection Chart SWP

Various Poles

50 & 60 HZ
Characteristics

1. Discharge Flange
   Up to 8”

2. Suction Check Valve
   Rubber that avoids the priming chamber to empty

3. Removable Cover Plate
   Allows easy maintenance to remove solids that may build up during operation

4. Handles
   Allow the complete rotation of the removable cover plate

5. Wearplate
   Easy to replace

6. O-Ring Seal
   Divides the self priming pressure from the discharge pressure

7. Balanced Impeller
   Two vane semi open impeller that can handle up to 3” solids

12. Mechanical Seal
    Oil lubricated
**Description**

**PRODUCT DESCRIPTION**

- Self Priming Pump
- Easy maintenance without the need of disconnecting piping
- Easy access to impeller and seal.
- Availability of mounting above the liquid being pumped.
- Designed to allow up to 3 inch diameter solids.
- Lift up to 27 ft

**BROAD APPLICATION RANGE**

The SWP pump is designed for a wide range of waste handling applications for industries such as but not limited to:

- Steel
- Paper Mills
- Mining
- Food Processing
- Power Plants
- Automotive
- Wineries

**MATERIAL OF CONSTRUCTION**

- Cast Iron
- We cover a large range of material options to satisfy every need, please contact us for more information.

**SWP PERFORMANCE DATA**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>up to 1,440 m³/h / 5,280 U.S. gpm</td>
</tr>
<tr>
<td>Head</td>
<td>up to 45 m / 147 ft</td>
</tr>
<tr>
<td>Solids Diameter</td>
<td>up to 7.62 cm / up to 3 in</td>
</tr>
<tr>
<td>Lift</td>
<td>up to 8.2 m / up to 27 ft</td>
</tr>
<tr>
<td>Temperature</td>
<td>up to 70 °C / up to 158 °F</td>
</tr>
</tbody>
</table>

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

**Bearing’s dual protection**
The double bearing lip seal prevents mixing the bearing chamber oil with the mechanical seal chamber oil. Between the two lip seals is an atmospheric drainer that allows the oil to drain outside of the pump in case of leak.

**Two vane impeller**
The two vane semi opened impeller can handle up to 3” diameter solids.

**Removable cover plate**
The SWP design, with its removable cover plate, reduces maintenance downtime and makes the opening simple and comfortable for the operator, with two handles to rotate the cover plate.

**Double oil sight**
For a better control of the bearing bracket oil level and the mechanical seal chamber oil level from the outside of the pump.
Other Ruhrpumpen Products

**ANSI Horizontal Process Pump**
CPP - Single Stage end suction horizontal centrifugal pump, enclosed impeller, radially split casing with flanged connections. Petrochemical, Oil & Gas, Steel Industry, Automotive, Food Processing, Power Generation, Pharmaceuticals, Water Treatment, General Process.

**Vertical In-Line Pump**

**Horizontal Process Pump**
IPP - Horizontal process pump, fully opened impeller, up to 375 psi. Chemical, Pharmaceutical, Metal Workings, Automotive, Power Generation, Water & Waste Treatment.

**Vertical Turbine Pump**
VTP - Multistage vertical centrifugal pump with diffuser type bowl, semi-open / enclosed impellers, cast iron bowls, counterclockwise rotation viewed from coupling end. Deep well and irrigation, cooling tower, sump, condensate, can pump requirements.

**Sump Pump**

**Horizontal Split Case Pump Single Stage**
+65 years creating the pumping technology that moves our world

Ruhrpumpen is an innovative and efficient pump technology company that offers highly-engineered and standard pumping solutions for the oil & gas, power generation, industrial, water and chemical markets. We offer a broad range of centrifugal and reciprocating pumps that meet and exceed the requirements of the most demanding quality specifications and industry standards such as API, ANSI, UL, FM, ISO and Hydraulic Institute.

**Ruhrpumpen Plants**
- ARGENTINA, Buenos Aires
- BRAZIL, Rio de Janeiro
- CHINA, Changzhou
- EGYPT, Suez
- GERMANY, Witten
- INDIA, Chennai
- MEXICO, Monterrey
- RUSSIA, Moscow
- UK, Lancing
- USA, Tulsa

www.ruhrpumpen.com