STR Vertical Turbine Pump
Main Applications

STR pumps can be used in the following fields:
• Desalination (sea water intake, brine backwash, etc.)
• Irrigation
• Water treatment
• Water transport
• Circulation and cooling water services in power plants
• Fish farms
• Flood control
• Dry docks

Features and Benefits

1 Closed impellers with balancing holes as standard, with open impeller for higher specific speeds
   • Offer extraordinary hydraulic performance and high efficiency levels

2 Bowl and impeller removable wear rings (front and rear)
   • Ensure proper maintenance and longer pump lifecycle

3 Oversized integrally mounted bearing housing with axial and radial bearings
   • Ensures trouble free operation

4 Shaft seal by gland packing
   • Provides reliable sealing and easy maintenance

5 Above ground discharge head as standard; discharge elbow below foundation available upon request
   • Ensures a proper access to coupling and sealing areas, and provides the required stiffness to complete pump & motor set

6 Shaft sleeves at pump rotor wear parts
   • For shaft wear protection

7 Rubber radial guide shaft bearing
   • Ensures proper performance when pumping slightly contaminated liquids

8 Line shaft connections with muff coupling able to transmit all the driver torque to the complete pump rotor
   • No possible shaft extension or galling could come across due to reverse sense of rotation
Optional Features

The following optional features can be supplied:

1. Between bearings impeller design with tail bearing at suction bell cross
2. Cast or fabricated discharge head
3. Thrust pod cooling coil with water inlet and outlet connections for high temperature applications
4. API and non-API mechanical seal shaft sealing
5. Column with shaft protection tube for dirt or abrasive liquids

Other tailor-made designs are available upon request.
STR Vertical Turbine Pump

Operating data

**50 Hz**
- up to DN1400
- up to 22,000 m³/h
- up to 200 m
- up to 25 bar
- up to 65°C

**60 Hz**
- up to 56 in
- Capacities up to 97,000 USgpm
- Heads up to 420 ft
- Pressures up to 362 psi
- Temperatures up to 149°F

Performance ranges

Materials

<table>
<thead>
<tr>
<th>Pump part</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bowls</td>
<td>Cast Iron, Bronze, Stainless Steel, Duplex, Superduplex</td>
</tr>
<tr>
<td>Impeller</td>
<td>Cast Iron, Bronze, Stainless Steel, Duplex, Superduplex</td>
</tr>
<tr>
<td>Shaft</td>
<td>Carbon Steel, Stainless Steel, Duplex, Superduplex</td>
</tr>
<tr>
<td>Column pipe</td>
<td>Carbon Steel, Duplex, Superduplex</td>
</tr>
</tbody>
</table>
## We Do What We Say

### Customer partnership
- We are reliable partners
- We provide a high level of service
- We make our customers more competitive

### Committed people
- We drive accountability
- We are open and transparent
- We are team players

### Operational excellence
- We focus on results
- We take initiative and work within established processes
- We act safely

## A Global Specialist at Your Doorstep

Sulzer serves clients worldwide through a network of over 150 production and service sites and has a strong footprint in emerging markets.