Municipal Water Treatment, Supply and Distribution
The Sulzer Advantage

Innovative and proven solutions for clean water applications

As a global leader in pump and agitator design and manufacture, Sulzer is recognized for delivering the excellent product quality and performance reliability required for a wide range of applications in the water industry.

Customer partnership

- With full-scale testing facilities, Sulzer gives you access to increased hydraulic excellence and unique application coverage
- Experience in managing a diversity of liquids and application environments
- Superior application knowledge based on extensive experience and understanding of the customers’ requirements
- By working in close cooperation with our customers and by getting fully involved in the intricacies of their processes, we are able to identify and provide optimum solutions

Service at your doorstep

- Sulzer’s global delivery and customer service network, which includes advanced service and parts processing centers, provides qualified services for the entire product life cycle, day and night
- Our comprehensive range of services includes energy audits, fast delivery programs, pre-configured retrofit products, various service kits and troubleshooting

Products that fit

- A comprehensive product portfolio and customized solutions for your process improvements
- Sulzer’s well-proven reliability increases production uptime and reduces breakdowns
- Advanced materials, sealing solutions and overall operating efficiency ensure a reliable process and maintenance-free operation
- Energy-efficient products with low lifecycle costs and a lighter environmental footprint
**Whatever the Process, We Have the Pumping Solutions**

**Municipal water treatment**

When planning new water treatment plants or upgrading existing ones, operating costs are as important as investment costs. Sulzer’s innovative pumps, mixers and compressors combine reliable treatment performance with superior energy efficiency.

The Sulzer advantage is evident from the moment raw water is captured for your water treatment plant. No matter the process you apply in your water treatment plant, Sulzer will help you to ensure the most efficient and reliable operation, from the intake pumping station through the water treatment plant, including any pumping service along the process.

**Municipal water supply and distribution**

Getting drinking water to all parts of a distribution network involves many challenges along the way. From the water treatment plant through pumping stations and beyond, Sulzer pumps lift and move the drinking water to bring it to its destination at sufficient flow and pressure.

Our solutions are matched to each task for reliable performance and superior energy efficiency. From the water treatment plant to water tap, Sulzer makes the difference with innovative pumping solutions.
Our Comprehensive Product Portfolio

The Sulzer advantage is shown in the design and innovative construction of our equipment, including state-of-the-art hydraulics as well as robust and reliable mechanical designs. Other features, like our Premium Efficiency IE3 motors in our submersible pump range and the superior magnetic bearings of our near-silent turbocompressors, further enhance energy efficiency.

The advantage also comes from our extensive knowledge and innovative tools. Using both, we can analyze your existing plant or a new plant design to recommend the ideal solutions for a complete upgrade or tailored new equipment.

In Sulzer, you have a single partner with comprehensive expertise. Our solutions live up to the highest standards related to drinking water applications, including the most recognized international certification standards, such as ACS, WRAS and NSF 61.

<table>
<thead>
<tr>
<th>Application</th>
<th>Split casing pumps SMD</th>
<th>Vertical turbine pumps JTS</th>
<th>End suction pumps SNS / A /CPT</th>
<th>Vertical multistage pumps VMS</th>
<th>Turbo-compressors HST</th>
<th>Progressing cavity pumps PC</th>
<th>Agitators Scaba</th>
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<tbody>
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SMD AXIALLY SPLIT CASING DOUBLE SUCTION PUMP

FEATURES AND BENEFITS

- Optimum hydraulic fit with high efficiency maintained over a wider flow range
- Exceptionally low Net Positive Suction Head Required (NPSHR) value not only at the best efficiency point but also on overload
- Maintenance-friendly features; excellent interchangeability of parts
- Horizontal and vertical constructions

KEY CHARACTERISTICS

| Capacities | up to 16,000 m³/h / 70,000 USgpm |
| Heads      | up to 260 m / 850 ft          |
| Pressures  | up to 34 bar / 490 psi        |
| Temperatures | up to 140°C / 280°F      |

APPLICATIONS

- Water intake, transport, supply and distribution
- Desalination
- Municipal water treatment
- Irrigation

JTS STANDARD VERTICAL TURBINE PUMP

FEATURES AND BENEFITS

- Reliable vertical turbine pump with standard configurations for short lead time that meets market demands
- Packed stuffing box for reliable sealing and simple maintenance, mechanical seal is optional
- Rubber-lined product-lubricated bearing in bowls and columns for long maintenance-free periods, other bearing materials are also available
- Suction bell provided with anti-vortex ribs, tail bearing, and replaceable wear rings or bowl liner
- Axial thrust bearing in pump or in motor

KEY CHARACTERISTICS

| Capacities | up to 1,500 m³/h / 8,000 USgpm |
| Heads      | up to 300 m / 1,000 ft         |
| Pressures  | up to 36 bar / 525 psi         |
| Temperatures | up to 85°C / 185°F      |

APPLICATIONS

- Water intake
- Municipal water supply and distribution
- Irrigation

VMS VERTICAL MULTI-STAGE PUMP

FEATURES AND BENEFITS

- The reliable range VMS vertical multistage pumps offers state-of-the-art efficiency meeting Ecodesign ErP guideline requirements
- The modular construction makes the VMS range easy to select and adjust to the required application
- The low NPSHr, the high durability of selected materials, and maintenance free electric motors ensures high cost effectiveness throughout the entire pump life cycle

KEY CHARACTERISTICS

| Capacities | 1.90 - 160 m³/h / 8 - 705 USgpm |
| Heads      | 3 - 400 m / 10 - 1,312 ft       |
| Pressures  | up to 40 bar / 363 psi          |
| Temperatures | -20°C to +40°C / -4°F to +104°F |

APPLICATIONS

- Municipal water treatment
- Municipal water distribution
- Pressure boosting
- Irrigation
# AHLSTAR A END SUCTION SINGLE STAGE CENTRIFUGAL PUMP

## FEATURES AND BENEFITS
- AHLSTAR pumps save energy, sealing water and environment
- Designed to meet the EN ISO 5199 standard, these pumps also comply to EN 22858 (ISO 2858) standard
- The modular interchangeability of parts and components enables low spare parts inventory
- The pump range offers the lowest total cost shaft seal concept, with dynamic seal, mechanical seals and packing
- Every AHLSTAR is designed for fast and easy installation, maintenance and service

## APPLICATIONS
- Clean and lightly contaminated liquids
- Desalination
- Municipal water treatment

## KEY CHARACTERISTICS
| Capacities | 11,000 m³/h / 48,400 USgpm |
| Heads     | 160 m / 525 ft |
| Pressures | 16 / 25 bar, 230 / 360 psi, depending on material and size |
| Temperatures | 180°C / 355°F |

# CPT END SUCTION SINGLE STAGE CENTRIFUGAL PUMP

## FEATURES AND BENEFITS
- Exceeds standard requirements of ANSI/ASME B73.1 standards
- Suitable for the most demanding industrial applications
- Unique, patented and superior design features minimize life cycle costs
- Quick and easy installation, safe operation, easy maintenance and service

## APPLICATIONS
- Clean and lightly contaminated liquids
- Desalination
- Municipal water treatment

## KEY CHARACTERISTICS
| Capacities | up to 1,600 m³/h / 7,000 USgpm |
| Heads     | up to 220 m / 720 ft |
| Pressures | up to 26 bar / 375 psi |
| Temperatures | up to 260°C / 500°F |

# SNS END SUCTION SINGLE STAGE CENTRIFUGAL PUMP

## FEATURES AND BENEFITS
- Designed to meet the design requirement of EN ISO 5199 international standard
- Exceeding EU's (European Union) requirements for energy-related products (ErP)
- Highest efficiency across the whole pump range, exceeding the benchmark efficiency index MEI 0.7 (Minimum Efficiency Index)
- New, state-of-the-art hydraulics ensure optimum capacity with low net positive suction head required (NPSHr)
- Low energy consumption, high standardization, easy installation and unique construction also equate to lower maintenance and operating costs

## APPLICATIONS
- Clean and slightly contaminated liquids
- Desalination
- Municipal water treatment

## KEY CHARACTERISTICS
| Capacities | up to 1,400 m³/h / 6,000 USgpm |
| Heads     | up to 160 m / 525 ft |
| Pressures | up to 16 bar / 230 psi |
| Temperatures | up to 120°C / 250°F |
SCABA TOP-MOUNTED GEAR OR BELT DRIVEN AGITATOR

FEATURES AND BENEFITS

- The top-mounted series covers gear or belt driven agitators mounted vertically on the tank top or bottom flange
- Dry installed agitators rely on a deep process knowledge, which enable us to tailor-make the agitators to meet your specific need. This ensures the required process result with a minimum energy input
- Versatile impeller options
- High efficiency SHP propellers
- Good axial flow

KEY CHARACTERISTICS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Impeller diameter</td>
<td>up to 8,000 mm / 316 in</td>
</tr>
<tr>
<td>Shaft length</td>
<td>up to 30 m / 100 ft</td>
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<tr>
<td>Power</td>
<td>up to 450 kW / 600 hp</td>
</tr>
</tbody>
</table>

APPLICATIONS

- Mixing in tank
- Clean and lightly contaminated liquids
- Municipal water treatment

TURBOCOMPRESSOR TYPE ABS HST

FEATURES AND BENEFITS

- High efficiency, guaranteeing optimal life cycle costs
- Low noise: no need for additional soundproofing
- Wear-free, requiring minimal maintenance
- Simple design with integrated components
- Accurate flow measurement
- Vibration-free, ensuring less stress for pipe work
- Fully certified
- Operates alongside all types of conventional blowers

KEY CHARACTERISTICS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Flow</td>
<td>up to 16,000 Nm³/h / 10,200 SCFM</td>
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<tr>
<td>Pressure rise</td>
<td>up to 125 kPa / 18 psi</td>
</tr>
<tr>
<td>Motor power</td>
<td>75 kW–400 kW / 100–500 hp</td>
</tr>
</tbody>
</table>

APPLICATIONS

- Dissolved air floatation (DAF)
- Filter backwash by air

PC TRANSFER PERFORM PUMP

FEATURES AND BENEFITS

- Saves time with maintain in place (MIP) features, easy to de-rag and no need to disconnect the pipework
- Designed for use in sludge plants, where high reliability is essential and downtime is kept to a minimum
- An extension of the PC transfer pump with material variants for a wide range of process applications
- Robust drives and gearboxes with low running speeds form an integral part of the unit design

KEY CHARACTERISTICS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Capacities</td>
<td>up to 225 m³/h / 990 USgpm</td>
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<tr>
<td>Pressures</td>
<td>up to 12 bar / 170 psi</td>
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<tr>
<td>Temperatures</td>
<td>-10 up to 100°C / 14 up to 212°F</td>
</tr>
</tbody>
</table>

APPLICATIONS

- Sludge handling and transfer (MIP)
- Municipal and industrial effluent (MIP)
- Shear sensitive processes (MIP)
- Shear thinning slurries (MIP)