



SULZER



Sulzer Pumps for Nitric Acid Applications

The
Heart
of Your
Process

motralec

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Sulzer Pumps at Your Service

AHLSTAR™ APP/APT process pumps for all the normal pumping applications in the process industry.

Capabilities

- to 160 m head
- to 2000 l/s capacity
- to 180 °C temperature



AHLSTAR™ ASP/AST self-priming gas removal pumps are designed for continuous operation in industrial processes to pump gas containing liquids up to 70%.

Capabilities

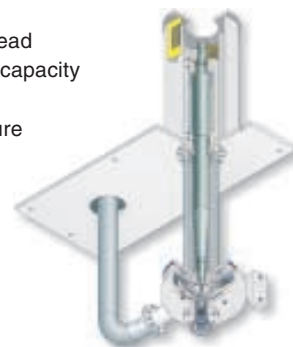
- to 160 m head
- to 1300 l/s capacity
- to 180 °C temperature



AHLSTAR™ NKP/NKT non-clogging and WKP/WKT wear resistant vertical cantilever pumps are used in applications with liquids containing solids or abrasive slurries and when no support bearing inside the liquid is allowed.

Capabilities

- to 55 m head
- to 120 l/s capacity
- to 95 °C temperature



AHLSTAR™ WSP/WST wear resistant self priming gas removal pumps enable trouble free pumping of corrosive and abrasive liquids containing gas up to 70 % or when self priming pump are needed.

Capabilities

- to 110 m head
- to 2000 l/s capacity
- to 180 °C temperature



ADVANTAGE CPT chemical process pumps series is designed according to ANSI/ASME B73. 1 M standards for normal pumping applications for clean, abrasive or corrosive liquids and also for liquids containing fibres.

Capabilities

- to 170 m head
- to 280 l/s capacity
- to 180 °C temperature



Other utilities

We also supply pumps for applications in water transport, mine dewatering, boiler feed and API 610 standard.



Oxidation of Nitrogen Dioxide

Nitric acid

AHLSTAR™ APP/APT process pumps or ADVANTAGE CPT chemical process pumps

- closed, high efficiency and low NPSHr impeller
- modified stainless steel material ASTM A743 CF-8 4C (special order)
- double mechanical seal
- special temperature measurement
- draining device



Impregnation of Nitrogen Dioxide

Nitric acid

AHLSTAR™ APP/APT process pumps or ADVANTAGE CPT chemical process pumps

- closed, high efficiency and low NPSHr impeller
- modified stainless steel material ASTM A743 CF-8 4C (special order)
- double mechanical seal

Cooling water

AHLSTAR™ APP/APT process pumps or ADVANTAGE CPT chemical process pumps

- closed, high efficiency and low NPSHr impeller
- cast iron material A 48 CL 35 B (53)
- unique dynamic shaft seal

Collected floor liquids

AHLSTAR™ ASP/AST self priming process pumps or WSP/WST wear resistant self priming process pumps

- open impeller
- corrosion and wear resistant stainless steel material ASTM A890 3A (41)
- integrated vacuum structure



Other Utilities

Water transport

The B Series of vertical line shaft pumps consist of BK, BS and BP ranges. They are primarily used in water lift, transfer and cooling water applications.

AHLSTAR™ NVP/NVT non-clogging vertical pumps are intended for all kinds of hard applications with waste water, slurries or waste stock.

SM/SMN single stage double entry pumps are used across a broad range of industries in liquid transport and transfer applications.

ZPP double suction pumps are designed for applications including cooling and circulating water pumping.

Mine dewatering

The HPH/HPL multistage pumps are specifically designed for mine dewatering applications. Their robust construction is designed to combat the highly abrasive environment in which they operate.

Nitrogen fertilizers

The Z series of end suction process pumps are available in both industrial and API 610 OH2 versions. In addition the ZU is available as a hot water boiler circulating pump.

Boiler feed

The HPP/HPT high pressure multistage pumps are used for pumping clean or slightly contaminated liquids in high pressure applications in various industries.

The M series of ring section multistage pumps consist of MB, MC, MD and ME ranges. A wide range of common hydraulic components and bearing assemblies are used within the 4 standard pressure ranges.





Sulzer Pumps

Sulzer Pumps has more than 135 years of experience in developing and manufacturing process pumps and agitators for many different industry sectors.

The combination of this experience with a deep understanding of the needs of our customers, plus our detailed process and application knowledge has given us a competitive edge in developing innovative pumping solutions for our focus segments. Our active research & development supports this customer oriented approach.

Sulzer Pumps has sales and service facilities in all the major markets of the world to provide professional support.

Process know-how

Sulzer Pumps' expertise in the fertilizer industry has been acquired through long experience and a recognition of our customers' needs and requirements. We offer a range of process pumps, special pumps, mixers and agitators for the production of nitrogen, phosphatic and potassium fertilizers. By working in close co-operation with our customers, and by getting fully involved in the intricacies of the processes we are able to select and provide the right solutions. By this we mean not only the right pump, but also the most suitable pump material, the correct seals, efficiency ratio and everything to ensure long working-life and reliability.

Total production facilities

Sulzer Pumps has its own foundries giving us the capacity to develop and manufacture a range of different materials for protection against corrosion and wear. We specialize in producing different grades of corrosion-resistant cast steels, martensitic, austenitic and duplex. Our newest material, austenitic cast steel Avesta 654SMO* demonstrates the high technical competence of our foundries. We also have the ability to manufacture pumps from special materials such as titanium and Hastelloy.

We are total producers, designing and making everything ourselves.

*) Avesta 654 SMO is a trade mark owned by Avesta Sheffield which has granted Sulzer Pumps Finland Oy licence to produce this material.



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