Single stage, end suction/overhung pumps

AHLSTAR pumps

Features and benefits

- AHLSTAR pumps save energy, sealing water and the 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
- ACS drinking water certification

AHLSTAR A, APP/T

Key characteristics

Capacities	up to 11’000 m^3/h / 48’400 USgpm
Heads	up to 160 m / 525 ft.
Pressures	up to 16 / 25 bar, 230 / 360 psi, depending on material and size
Temperatures	up to 180°C / 356°F

Applications

- Clean and slightly contaminated liquids
- Viscous liquids
- Fibrous slurries
- Solids containing liquids
- Gas containing liquids and self-priming applications
- Various demanding applications

AHLSTAR NPP/T

Key characteristics

Capacities	up to 2’000 m^3/h / 8’800 USgpm
Heads	up to 90 m / 295 ft.
Pressures	up to 16 bar / 230 psi, depending on material and size
Temperatures	up to 180°C / 356°F

Applications

- Large solids containing liquids and fibrous slurries
- Large solids and gas containing liquids and slurries including self-priming applications

AHLSTAR WPP/T

Key characteristics

Capacities	up to 7’000 m^3/h / 31’000 USgpm
Heads	up to 110 m / 360 ft.
Pressures	up to 16 / 25 bar, 230 / 360 psi, depending on material and size
Temperatures	up to 180°C / 356°F

Applications

- Abrasive and viscous liquids, fibrous and non-fibrous slurries
- Abrasive solids and gas containing liquids and slurries including self-priming applications

AHLSTAR EPP/T

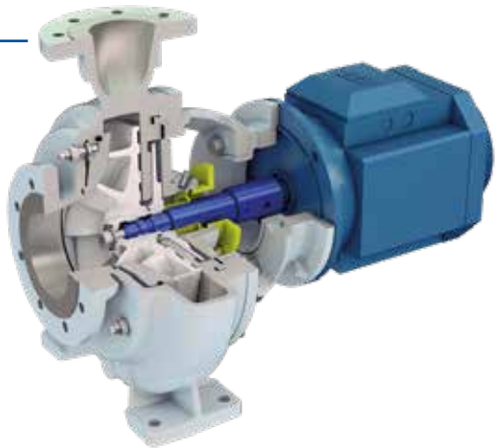
Key characteristics

Capacities	up to 6’100 m^3/h / 26’860 USgpm
Heads	up to 160 m / 525 ft.
Pressures	up to 25 bar / 360 psi, depending on material and size
Temperatures	up to 210°C / 410°F

Applications

- High temperature liquids
- Clean and slightly contaminated liquids
- Viscous liquids
- Fibrous slurries

AHLSTAR close-coupled



Features and benefits
- Close-coupled design with flange or flange/feet type electric motors
- Needs less space
- Makes installation quick and easy, thus reducing the total installation cost

Key characteristics
Capacities	up to 600 m^3/h / 2’600 USgpm
Heads	up to 160 m / 525 ft.
Pressures	up to 16 / 25 bar, 230 / 360 psi, depending on material and size
Temperatures	up to 130°C / 266°F

Applications
- Clean and slightly contaminated liquids
- Viscous liquids
- Fibrous slurries
- Solids containing liquids
- Gas containing liquids and self-priming applications

Dry-installed sewage pump type ABS AFC

Features and benefits
- Compliant with the EN 12050-1 standard
- No risk of contamination during operation
- No need for entry into dangerous pump sumps
- Pull-out design allows for easy removal of the motor without disconnecting the pump from the pipework
- Used with standard IEC air-cooled motors
- Based on the tried-and-tested Contrablock and vortex range of hydraulics

Key characteristics
Discharge sizes	DN50 to DN200
Motor range	3 to 22 kW
Bearing life	100’000 h

Applications
- Clear water
- Polluted water
- Heavily-polluted sewage containing solids, fecal slurry and sludge

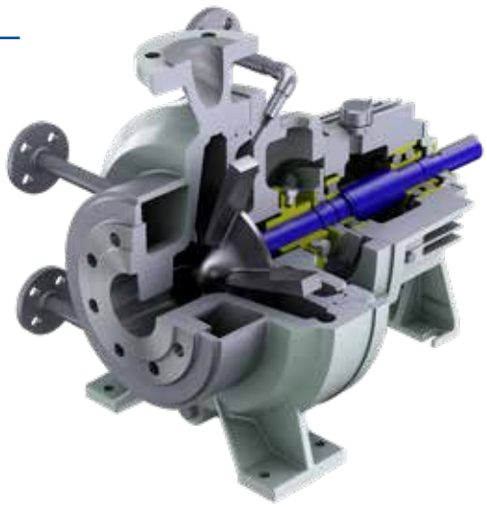
CPE ANSI process pumps range ANSI / ASME B73.1

Features and benefits
- The highest available efficiency on the ANSI process pump market providing clear savings in energy consumption
- Exceeds the requirements of all environment (ECO) directives and the energy efficiency targets for pumps globally
- Maximized reliability thanks to shaft sealing conditions and heavy-duty bearing unit
- High standardization, easy installation and robust construction equate to reduced maintenance and operating costs
- The CPE pump uses NSF61 and NSF372 certified materials

Key characteristics
Capacities	up to 1’650 m^3/h / 7’000 USgpm
Heads	up to 275 m / 900 ft.
Pressures	up to 27.5 bar / 400 psi
Temperatures	up to 260°C / 500°F

Applications
- Clean and slightly contaminated liquids
- Viscous liquids
- Fibrous slurries

EMTECH process pump



Features and benefits

- Designed to meet the EN ISO 5199 standard, these pumps also comply with EN 22858 (ISO 2858) standard
- High efficiency
- Low net positive suction head (NPSH)
- Reliable and flexible design to ensure maximum installation availability
- Low energy consumption, high standardization, easy installation and unique design reduce maintenance and operating costs
- Jacketing

Key characteristics

Capacities	up to 350 m^3/h / 1’540 USgpm
Heads	up to 160 m / 525 ft.
Pressures	up to 20 bar / 290 psi
Temperatures	up to 180ºC / 356ºF

Applications

- Clean and slightly contaminated liquids
- Viscous liquids
- Fibrous slurries
- Sticky liquids

Dry-installed sewage pump type ABS FR

Features and benefits

- Very service-friendly due to back pull-out design using standard electrical motors
- Ample space inside the impeller and volute, making them less prone to clogging
- Dry running capability possible with a double seal arrangement
- Can be supplied with optional equipment where self-priming is required

Key characteristics

Discharge sizes	DN150-DN700 / 6-28”
Motor range	up to 700 kW / up to 950 hp
Bearing life	100’000 h

Applications

- Clear water
- Polluted water
- Heavily-polluted sewage containing solids, fecal slurry, and sludge in commercial, industrial and municipal applications

NRN high-pressure process pump

Features and benefits

- Designed for heavy-duty applications in various industries
- Exceeds the requirements of ISO 5199 and ISO 13709 (API 610) 11th edition, type OH1
- Tailor-made for your process needs
- High reliability and maximum efficiency

Key characteristics

Capacities	up to 4’500 m^3/h / 19’800 USgpm
Heads	up to 320 m / 1’050 ft.
Pressures	up to 60 bar / 1’100 psi
Temperatures	from -90 to 180°C / from -130 to 356°F

Applications

- Clean and slightly-contaminated liquids
- Corrosive and abrasive liquids
- Slurry applications

OHH and OHHL overhung, single stage pumps ISO 13709 / API 610 type OH2

Features and benefits
- Finned bearing housing and fan cooling for long bearing life
- Broadest range map in the industry for ISO 13709 (API 610) type OH2 pumps
- Heavy duty baseplates with 2x ISO 13709 (API 610) nozzle load option
- ISO 21049 (API 682) cartridge type mechanical seals for reduced emissions
- Electric motor, variable frequency drive (VFD), engine and steam turbine drivers

Key characteristics
Capacities	up to 2’250 m^3/h / 10’000 USgpm
Heads	up to 400 m / 1’500 ft.
Pressures	up to 75 bar / 1’110 psi
Temperatures	up to 425°C / 800°F

Applications
- Offshore boosting
- Refinery and petrochemical process applications
- HTF oil circulation

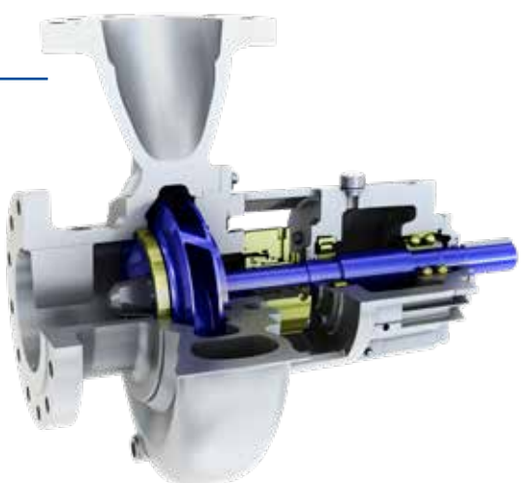
OHV and OHVL overhung, vertical inline pumps ISO 13709 / API 610 type OH3

Features and benefits
- Finned bearing housing and fan cooling for long bearing life
- Broad range map for hydraulic coverage
- Heavy-duty pump and driver stand for reduced vibration
- ISO 21049 (API 682) cartridge type mechanical seals for reduced emissions
- OHH/OHHL shaft and bearings for reduced deflection and long seal life

Key characteristics
Capacities	up to 1’450 m^3/h / 6’800 USgpm
Heads	up to 450 m / 1’500 ft.
Pressures	up to 51 bar / 740 psi
Temperatures	-160 to +340°C / -256 to +650°F

Applications
- Seawater booster
- Light hydrocarbon boosting
- Low-pressure unit charge
- Pump around services
- Tank farm boosting

PRE and PRELF end suction, single stage process pumps ISO 13709 / API 610 type OH2



Features and benefits
- Heavy duty shaft with short overhang dimensions for robust design
- Innovative hydraulic design with options to suit process fluid
- Finned bearing housing and fan cooling for long bearing life
- ISO 21049 (API 682) cartridge type mechanical seals for reduced emissions
- Inducer option for low NPSH applications

Key characteristics
Capacities	up to 4’500 m^3/h / 19’800 USgpm
Heads	up to 320 m / 1’050 ft.
Pressures	up to 51 bar / 740 psi, special high pressure 250 bar upon request
Temperatures	up to 400°C / 750°F

Applications
- Boosting
- Refinery, petrochemical and chemical process applications
- Desalination
- Boiler feedwater booster
- Condensate extraction
- HTF oil circulation

PRER and PRETR high pressure pumps

Features and benefits

- High pressure casing design with special reinforcement to suite challenging high-pressure servcies
- Closed impeller for clean liquids
- Extra heavy duty, large diameter shaft
- Taper roller bearing for very high suction pressures
- Robust bearing housing with low noise fan for high temperatures

Key characteristics

Capacities	up to 2’200 m^3/h / 8’800 USgpm
Heads	up to 320 m / 1’050 ft.
Pressures	up to 200 bar / 2’900 psi
Temperatures	up to 400°C / 752°F

Applications

- Boiler circulation pump
- Hot water circulation pump

PRF high-pressure booster pump

Features and benefits

- Specifically designed to manage clear liquids with high suction pressure
- Optimized design ensures maximum pressure resistance and extended lifetime
- Cost effective and highly reliable
- Efficient solution as ERS booster pumps in SWRO desalination applications

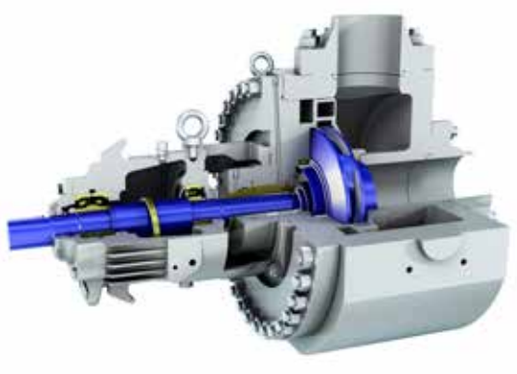
Key characteristics

Capacities	up to 1’350 m^3/h / 7’250 USgpm
Heads	up to 95 m / 445 ft.
Pressures	up to 75 bar / 1’090 psi
Temperatures	up to 200°C / 392°F

Applications

- Reverse osmosis process
- Boiler circulation
- Any high-pressure process application

REL horizontal diffuser style single stage pump



Features and benefits

- Casing designed for higher nozzle loads to comply with nuclear requirements
- Proven hydraulic design from our API 610 pump range ZE/ZF
- Enlarged shaft diameter compared to API 610 to match nuclear requirements
- Low rotor bending
- High dry running critical speed
- Designs according to RCC-M available

Key characteristics

Capacities	up to 2’600 m^3/h / 11’440 USgpm
Heads	up to 300 m / 1’000 ft.
Pressures	up to 100 bar / 1’450 psi
Temperatures	up to 425°C / 800°F

Applications

- Safety related services

SIL inline pump range

Features and benefits

- High efficiency over a wide operation range
- Exceeds ErP (energy-related products) mimimum efficiency index (MEI 0.4)
- Low installation and maintenance costs due to easy installation and uniqe design
- Low spare parts costs due to high standardization

Key characteristics

Capacities	up to 720 m^3/h / 3’200 USgpm
Heads	up to 100 m / 328 ft.
Pressures	up to 16 bar / 230 psi
Temperatures	up to 180°C / 356°F

Applications

- Clean and slightly contaminated liquids
- Clean viscous liquids
- Clean fibrous slurries

SNS range

Features and benefits

- Designed to meet the design requirements of EN 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
- ACS drinking water certification

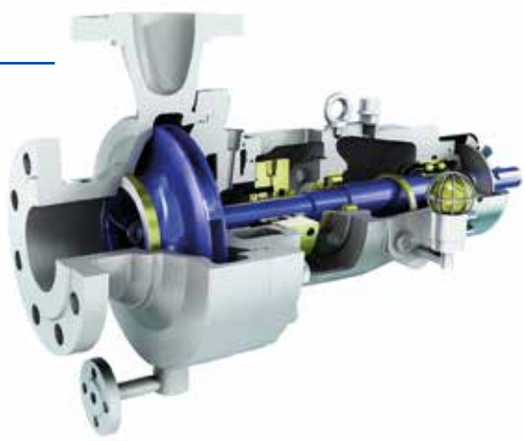
Key characteristics

Capacities	up to 1’400 m^3/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

Applications

- Clean and slightly contaminated liquids
- Viscous liquids
- Fibrous slurries

ZA / ZE and ZF end suction pumps ISO 13709 / API 610 type OH2



Features and benefits

- Designed for hot and cold process applications
- Modular construction to provide maximum interchangeability

Key characteristics

Capacities	up to 2’600 m^3/h / 11’440 USgpm
Heads	up to 300 m / 1’000 ft.
Pressures	up to 100 bar / 1’450 psi
Temperatures	up to 425°C / 800°F

Applications

- Refinery, petrochemical and chemical process applications
- Desalination
- Boiler feedwater booster
- Condensate extraction
- HTF oil circulation
- Auxiliary services
- District heating

ZFn horizontal volute type process pump

Features and benefits
- Basic design according API 610 latest edition
- Casing designed for higher nozzle loads to comply with nuclear requirements
- Proven hydraulic design from our API 610 pump range ZE/ZF
- Enlarged shaft diameter compared to API 610 to match nuclear requirements
- Low rotor bending
- High dry running critical speed
- Designs according to RCC-M available

Key characteristics
Capacities	up to 2’600 m^3/h / 11’440 USgpm
Heads	up to 300 m / 1’000 ft.
Pressures	up to 100 bar / 1’450 psi
Temperatures	up to 425°C / 800°F

Applications
- Safety related services

Submersible pumps

Submersible sewage pumps type ABS XFP

Features and benefits
- Premium Efficiency IE3 motor in accordance with IEC 60034-30
- Excellent rag handling
- Specially designed impellers for reliable delivery of wastewater containing solids and fibrous material
- Hazardous locations: Approval for ATEX ATEX (Ex II 2G Ex h db IIB T4 Gb), FM and CSA available
- Quick and easy installation, safe operation, easy maintenance and service

Key characteristics
Capacities	up to 2’700 l/s (50 Hz) / 3’000 l/s / 47’560 USgpm (60 Hz)
Heads	up to 80 m (50 Hz) / 95 m / 310 ft. (60 Hz)
Temperatures	up to 40ºC / 104ºF
Motor power	up to 550 kW (50 Hz) / up to 620 kW / 830 hp (60 Hz)

Applications
- Clean water and wastewater
- Sewage with sludge and rag content
- Sewage containing solids and fibrous material
- Industrial raw water
- Municipal combined sewage and storm water systems

Submersible mixed flow column pump type ABS AFLX

Features and benefits
- Premium Efficiency IE3 motor in accordance with IEC 60034-30
- Highly efficient three-to five-blade open-type mixed flow impellers
- Low-vibration design and low-NPSH design
- Automatic self-centering of the pump and column pipe with a conical coupling ring
- Hazardous locations: Certifcation for ATEX (Ex II 2G Ex h db IIB T4 Gb), FM and CSA available as an option

Key characteristics
Capacities	up to 3’100 l/s / 49’000 USgpm
Heads	up to 35 m (50 Hz) / 33 m / 108 ft. (60 Hz)
Temperatures	up to 40ºC / 104ºF
Motor power	up to 500 kW (50 Hz) / up to 468 kW / 628 hp (60 Hz)

Applications
- Storm water protection, irrigation and aquaculture
- Industrial raw water and process water
- Combined sewage and surface water
- Recirculation sludge or return activated sludge (RAS)
- Hazardous locations