

Cutting-Edge Pumping and Mixing Solutions for the Food Processing Industry





The Sulzer Advantage

Innovative and proven pumping and mixing solutions

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 food processing 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 process 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 lifecycle, day and night
- Our comprehensive range of services includes energy audits, fast delivery programs, preconfigured 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 up time and reduces breakdowns
- Advanced materials, sealing solutions, and overall operating efficiency ensure a reliable process and a maintenance free operation
- Energy-efficient products with low life cycle costs and a lighter environmental footprint

Our Organization Spans Across the Globe



Wherever you are Sulzer is close by, bringing you the best in pumping and mixing technology, expertise and services. With our large global presence, we have a strategically placed sales, customer care and delivery facilities that keep us close to you. Sulzer is your best partner for achieving all your performance, reliability, safety and sustainability goals.

Sulzer's global delivery and customer service network, which includes a network of advanced service centers and parts processing centers, provides qualified services for the entire product lifecycle. We are well known for our state-of-the-art products, performance, reliability and energy-efficient solutions. Our customers benefit from our intensive research and development in fluid dynamics, process-oriented products and special materials. All Sulzer manufacturing plants have advanced testing facilities, capable of demonstrating pump performance and testing ancillary equipment to ensure smooth commissioning and start-up procedures.



Quality and sustainability

We are committed to providing our customers with the best products at the highest quality standards in the industry. All of our locations around the world implement certified management systems, in accordance with ISO 9001 (Quality), ISO 14001 (Environment) and OHSAS 18001 (Health and Safety) as an effective way to sustain the continuous improvement of our processes and products. Some of our locations also have specific certifications, such as ATEX IECEx03.

Whatever the Process, We Have the Pumping Solutions

You set the challenge, we provide the solution.

Sugar cane mill



Wear-resistant and non-clogging pumps and agitators in particular are key pieces of equipment in sugar cane processes for diffusion, purification, evaporation, crystallization, auxiliary systems and wastewater treatment.

Sugar beet mill



Wear-resistant pumps are crucial in beet sugar processing, supported by process pumps and agitators for washing, extraction, purification, carbonation, evaporation, crystallization, auxiliary systems and wastewater treatment.

Sugar refinery



Process pumps and agitators are key pieces of equipment in sugar refining, melting, carbonation filtration and decolorization, evaporation, crystallization, auxiliary systems and wastewater treatment. Degassing pumps are problem solvers in the melting process.

Starch manufacturing



Degassing pumps are crucial problem solvers in many starch applications, whether the source is corn, wheat, potatoes or tapioca. Process pumps and agitators are widely used in steeping, fiber separation, starch washing and auxiliary processes.

Bioethanol production



Process pumps and agitators are key pieces of equipment in saccharification, fermentation, distillation, residue handling, auxiliary systems and wastewater treatment. Sources are typically sugar cane, sugar beets and other crops.

Biodiesel production



Process pumps and agitators are used for all sources of biodiesel, such as canola, soybeans, palm oil or animal fat. Typical processes include oil production, transesterfication, separation and flashing, glycerine treatment and auxiliary systems.

Biogas production



Agitators are at the heart of the anaerobic digestion process in biogas production. The digestion of sludge, food leftovers or animal waste requires an even temperature distribution without sedimentation.

Beverage industry



Pumps and agitators are key pieces of equipment in the water-intensive beer and beverage industry. In addition, effluent water quality must meet environmental targets, which necessitates efficient aerators and compressors in the wastewater treatment.

Whatever the Process, We Have the Pumping Solutions

Excellent pump reliability for sugar beet washing

Soil and sand are rinsed off during the wet unloading of sugar beets, generating muddy, abrasive water. Wear-resistant pumps are therefore the key to greater reliability and lower maintenance costs. The AHLSTAR W can extend the pump lifecycle and prevent expensive, unexpected shutdowns.

Beet pulp has a high fiber and gas content, and our SCP pumps have been designed to handle this type of suspension. With an efficient degassing and inducer system for the inlet feed, this technology can replace high-maintenance progressive cavity pumps.



A/APT= AHLSTAR A, APP or AHLSTAR APT pumpWPP/WPT= AHLSTAR WPP or WPT pump with wear resistant hydraulicWPP-S/WPT-S= AHLSTAR WPP-S/WPT-S pump with wear resistant hydraulic and gas separationSCP= Degassing pump for high concentrated suspension

Degassing pumps in starch manufacturing

In starch production from tapioca and potatoes, the mixture of water and rasped stock contains a high air content of about 40% in combination with high viscosity. This type of suspension is difficult to pump using conventional pumps. AHLSTAR degassing pumps have been designed to handle this suspension effectively and reliably, ensuring trouble-free operation and a steady process.



A-S/APT-S = AHLSTAR A-S, APP-S or APT-S gas separating pump



= Scaba or SALOMIX® agitator

Efficient bioethanol production through optimum agitation

Fermentation of various starch or sugar based sources requires reactors with good agitation. In this example, starch powder is mixed in a slurry tank and the agitator must be able to mix the dry powder into the liquid. In the saccharification tank, starch is converted with enzymes at high temperatures. Fermentors can be either batch or continuous; for batch fermentors the propeller must be located near the bottom in order to also enable agitation during emptying. Agitation must be effective in both cases, to ensure satisfactory mixing of nutrients.

Reliable, sturdy agitators that meet process requirements with a minimum energy input are important goals when designing agitators. Sulzer's SALOMIX[®] and Scaba agitators are engineered for each individual application.



A/APT = AHLSTAR A, APP or AHLSTAR APT pump



= Scaba or SALOMIX® agitator

Your Ideal Service Partner

Our commitment and expertise always delivers reliability, responsiveness, rapid turnaround and innovative solutions



Our Comprehensive Product Portfolio

Sugar								
Product technology	Product name	Washing	Extraction	Purification	Evapora- tion	Crystalliza- tion	Auxiliaries	Waste- water treatment
Single stage pumps	AHLSTAR A range	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	AHLSTAR N range	\checkmark	\checkmark				\checkmark	\checkmark
	AHLSTAR W range	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
	AHLSTAR CC	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	Degassing and self- priming A, N and W range	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	
	CPT	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
MC [®] products	SCP pumping system	\checkmark	\checkmark					
Multistage pumps	MBN			\checkmark		\checkmark	\checkmark	
Vertical pumps	NKP/NKT, WKP/WKT	\checkmark					\checkmark	\checkmark
Aritotovo	SALOMIX [®] L, Scaba top-mounted		\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
Agitators	SALOMIX [®] SL/ST, Scaba side-mounted		\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
Submersible mixers	XRW and XSB							\checkmark
Submersible pumps	XFP, AFLX and VUPX	\checkmark					\checkmark	\checkmark
Compressors	HST							\checkmark
Submersible aerators	OKI, XTA and DDS							\checkmark

Starch

Product technology	Product name	Wheat fractioning	Corn steeping	Fiber separation	Starch washing	Gluten/ corn oil handling	Auxiliaries	Waste- water treatment
Single stage pumps	AHLSTAR A range	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	AHLSTAR N range		\checkmark				\checkmark	\checkmark
	AHLSTAR W range		\checkmark			\checkmark	\checkmark	
	AHLSTAR CC	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	Degassing and self- priming A, N and W range	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
	CPT	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Vertical pumps	NKP/NKT, WKP/WKT						\checkmark	
Agitators	SALOMIX [®] L, Scaba top-mounted		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	SALOMIX [®] SL/ST, Scaba side-mounted		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Submersible mixers	XRW and XSB							\checkmark
Submersible pumps	XFP, AFLX and VUPX						\checkmark	\checkmark
Compressors	HST							\checkmark
Submersible aerators	OKI, XTA and DDS							\checkmark

Bioethanol								
Product technology	Product name	Saccharifi- cation	Fermenta- tion	Distillation	Residue handling	Storage	Auxiliaries	Waste- water treatment
Single stage pumps	AHLSTAR A range	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	AHLSTAR N range						\checkmark	\checkmark
	AHLSTAR W range	\checkmark			\checkmark		\checkmark	
	AHLSTAR CC	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	Degassing and self- priming A, N and W range		\checkmark				\checkmark	
	CPT	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Multistage pumps	MBN						\checkmark	
Agitators	SALOMIX [®] L, Scaba top-mounted	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark
	SALOMIX [®] SL/ST, Scaba side-mounted	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark
Submersible mixers	XRW and XSB							\checkmark
Submersible pumps	XFP, AFLX and VUPX						\checkmark	\checkmark
Compressors	HST							\checkmark
Submersible aerators	OKI, XTA and DDS							\checkmark

Biodiesel

Product technology	Product name	Oil production	Oil pre- treatment	Biodiesel production	Glycerin treatment	Storage	Auxiliaries	Waste- water treatment
Single stage pumps	AHLSTAR A range	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	AHLSTAR N range							\checkmark
	AHLSTAR W range	\checkmark						
	AHLSTAR CC	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	Degassing and self- priming A, N and W range		\checkmark				\checkmark	
	CPT	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Multistage pumps	MBN						\checkmark	
	SALOMIX [®] L, Scaba top-mounted		\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
Agitators	SALOMIX [®] SL/ST, Scaba side-mounted		\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
Submersible mixers	XRW and XSB							\checkmark
Submersible pumps	XFP, AFLX and VUPX						\checkmark	\checkmark
Compressors	HST							\checkmark
Submersible aerators	OKI, XTA and DDS							\checkmark

Product Overview

Single stage pumps

AHLSTAR

KEY CUSTOMER BENEFITS

- AHLSTAR pumps save energy, sealing water and the environment
- Designed to meet the EN ISO 5199 reliability standard, these pumps also comply with the EN 22858 (ISO 2858) standard
- The modular interchangeability of parts and components enables a low spare parts inventory
- The range of pumps offers the most economic shaft seal concept overall, with dynamic seal, mechanical seals and packing
- Every AHLSTAR is designed for fast and simple installation, maintenance and service

AHLSTAR A

KEY CHARACTERISTICS

APPLICATIONS

Capacities11,000 m³/h / 48,400 USgpm
Heads• For all types of liquid or suspen-
sion, such as sugar extraction
and evaporation, starch pump-
ing, chemicals, water, wastewa-
ter and sludgePressures16 / 25 bar, 230 / 360 psi,
depending on material and size• For all types of liquid or suspen-
sion, such as sugar extraction
and evaporation, starch pump-
ing, chemicals, water, wastewa-
ter and sludge

AHLSTAR N

KEY CHARACTERISTICS

PPLICATIONS	5
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- Capacities2,000 m³/h / 8,800 USgpm• ForHeads90 m / 295 ftcerPressures16 bar / 230 psi,
depending on material and sizeharTemperatures180°C / 355°F• Cos
 - For applications where normal centrifugal pumps cannot handle liquids due to plugging or abrasive wear
 - Cossette pumping for sugar extraction, sugar cane milling, slurries, rejects, wastewater, sludge and other liquids containing large solids and other particles



AHLSTAR W

KEY CHARACTERISTICS

Capacities	7,000 m³/h / 31,000 USgpm
Heads	110 m / 360 ft
Pressures	16 / 25 bar, 230 / 360 psi,
	depending on material and size
Temperatures	180°C / 355°F

APPLICATIONS

- For abrasive or erosive applications, such as sugar extraction and purification and suspensions with hard or sandy solids
- Specially designed wearresistant pumping hydraulics (W) with wear-resistant materials deliver a 6-8 times longer lifecycle than conventional pumps



AHLSTAR CLOSE COUPLED

KEY CUSTOMER BENEFITS

• The close coupled design with standard flange or flange/feet type electric motors makes installation fast and simple, thereby reducing overall installation costs

KEY CHARACTERISTICS

APPLICATIONS

- Capacities600 m³/h / 2,600 USgpmHeads160 m / 525 ftPressures16 / 25 bar, 230 / 360 psi,
depending on material and sizeTemperatures130°C / 266°F
- For clean or slightly contaminated liquids, viscous liquids, fibrous slurries, liquids containing large solids, and liquids with a high gas content of up to 70%



AHLSTAR A, N AND W DEGASSING UNITS FOR STABILITY AND RELIABILITY

KEY CUSTOMER BENEFITS

- AHLSTAR A, N and W type pumps can be fitted with self-priming or degassing units, to enable the pump to be started fast and reliably with an empty inlet pipe and to allow it to pump liquids with a high gas content
- AHLSTAR pumps with a self-priming unit , such as LM or S liquid ring pumps and the GM, GS or R gas separator units, stabilize the pumping of liquids containing up to 40% weakly bonded gases or up to 70% strongly bonded gases
- The difference in pressure between the pump inlet and the degassing unit outlet or the internal liquid ring pump eliminates gas bubbles from the impeller, thereby stabilizing the system and significantly increasing pump efficiency

APPLICATIONS

- Applications with a high gas content, such as starch processing, fermentation and foam tanks. Can be combined with A, N and W hydraulics.
- All self-priming applications, including pits and raw water intake.
- Degassing in high and low inlet head applications (1)
- Degassing in negative inlet head applications (2)
- Self-priming applications as a reliable and convenient alternative to submersible or vertical pumps (2)
- Replacing complicated, expensive and high building-necessitating classic barometric leg systems, e.g. water separator and filter applications (3)

CPT END SUCTION SINGLE STAGE CENTRIFUGAL PUMP

KEY CUSTOMER BENEFITS

- Exceeds requirements of ANSI/ASME B73.1 standards
- Suitable for the most demanding industrial applications
- · Unique, patented and superior design features minimize lifecycle costs
- Fast and simple installation, safe operation and easy maintenance and service

KEY CHARACTERISTICS

CapacitiesUp to 1,600 m³/h / 7,000 USgpmHeadsUp to 220 m / 720 ftPressuresUp to 26 bar / 375 psiTemperaturesUp to 260°C / 500°F

APPLICATIONS

 Arduous process and auxiliary applications









MC® products

SCP PUMPING SYSTEM

KEY CUSTOMER BENEFITS

- Advanced patented SCP pumping technology replacing maintenance requiring positive displacement pumps
- · Highest efficiency, reducing power consumption and installation costs
- Correct fluidization prevents fiber over-treatment
- Degassing alternatives include a built-in degassing system, a separate external MDS degassing system, and degassing without a vacuum pump
- Low and high inlet level pumping
- Proven long-life mechanical design

KEY CHARACTERISTICS

Heads Capacities Consistency range Up to 190 m / 620 ft Up to 1,200 m³/h / 5,300 USgpm 6 - 12% (dry substance)

APPLICATIONS

 Pumping high consistency wet pulp, typically after sugar beet extraction



Multistage pumps

MBN MULTISTAGE RING SECTION PUMP

KEY CUSTOMER BENEFITS

- Features our innovative polygon fit between impellers no keys required
- Maintenance-free dynamic seal, mechanical seals and gland packing are available for shaft sealing
- · Easy to maintain only requires one roller bearing unit and one shaft seal

KEY CHARACTERISTICS

Capacities Heads Pressures Temperatures 700 m³/h / 3,080 USgpm 900 m / 2,950 ft 100 bar / 1,450 psi 180°C / 355°F

- APPLICATIONS
- For clean or slightly contaminated liquids in shower water, sealing water or boiler feed water applications, where a high pressure/high head is required



Vertical pumps

NKP/NKT AND WKP/WKT NON-GLOGGING CANTILEVER PUMPS

KEY CUSTOMER BENEFITS

- Exceeds requirements of the ISO 5199 international standard
- · Unique, patented and superior design features minimize lifecycle costs
- · Suitable for all types of extreme application in seal pits and floor channels

KEY CHARACTERISTICS

Capacities430 m³/h / 1,900 USgpmHeads60 m / 200 ftPressures10 bar / 150 psi,
depending on material and sizeTemperatures95°C / 205°F

APPLICATIONS

 For all types of liquid, such as water, slurries or liquids with large or abrasive solids



Top-mounted agitators

SALOMIX® L TOP-MOUNTED GEAR OR BELT DRIVEN AGITATOR

The L series covers gear or belt driven agitators mounted vertically on the tank top or bottom flange.

KEY CUSTOMER BENEFITS

- Versatile impeller options meet any process needs to comply with the rheology of the mixed fluid
- Maximum modular component flexibility
- Suitable for tanks from 1 to 2,500 m³ / 88,285 ft³

KEY CHARACTERISTICS

Impeller diameter Shaft length Power Up to 8,000 mm / 316 in Up to 30 m / 100 ft Up to 450 kW / 600 hp

APPLICATIONS

• For storage towers, dissolvers, reactors, and production vessels



SCABA TOP-MOUNTED GEAR AGITATOR

The top-mounted series covers gear agitators mounted vertically on the tank top or bottom flange.

KEY CUSTOMER BENEFITS

- Dry installed agitators rely on an in-depth process knowledge, which enables us to tailor the agitators to meet your specific needs. This ensures the desired process results with minimal energy input
- Versatile impeller options
- High efficiency SHP propellers
- · Good axial flow

KEY CHARACTERISTICS

Impeller diameter Shaft length Power

Up to 8,000 mm / 316 in Up to 30 m / 100 ft Up to 450 kW / 335 hp

- · For storage towers, dissolvers, reactors and production vessels
- Wastewater treatment

APPLICATIONS

Side-mounted agitators

SALOMIX® RANGE

KEY CUSTOMER BENEFITS

- · High efficiency results in energy savings and improved agitation
- · Cast, four-bladed, adjustable propeller blades give accurate power control
- · Conical body shape supports the propeller and ensures vibration free operation
- Unique solutions
- SLF/STF, SLR/STR and SLF with gear drive
- · SLB/STB and SLH for belt drive
- · Versatile mechanical sealing solutions

KEY CHARACTERISTICS

Propeller diameters

Power

800 - 1,650 mm / 31.5 – 65 in 2.2 - 110 kW / 10 - 150 hp

APPLICATIONS

· For all types of liquid or suspension

SCABA SIDE-MOUNTED BELT DRIVEN AGITATOR

KEY CUSTOMER BENEFITS

- · Sturdy construction with rigid shaft and bearings
- · High efficiency results in energy savings and improved agitation
- · High flow SHP1 and SHP18 propellers are used to generate good axial flow
- Both mechanical seals and stuffing box alternatives
- · Seal can be changed without emptying the tank with stuffing box

KEY CHARACTERISTICS

Propeller diameter Power

735 - 1,450 mm / 29 - 57 in 7.5 - 200 kW / 29 - 57 hp

APPLICATIONS

- For all types of liquid or suspension
- Seal unit can be changed without emptying the tank





Submersible mixers

SUBMERSIBLE MIXER TYPE ABS XRW AND FLOW BOOSTER TYPE ABS XSB

KEY CUSTOMER BENEFITS

- Energy efficient design, such as IE3 or permanent magnet motors, high efficiency propellers and slow running design
- Self-cleaning propellers provide vibration-free operation
- Robust construction guarantees superior reliability and long operating lifecycle

KEY CHARACTERISTICS				
Mixing flow	Up to 6,300 m³/h /			
	28,000 USgpm (XRW)			
	Up to 22,200 m ³ /h /			
	95,200 USgpm (XSB)			
Propeller diameter	Up to 900 mm / 3 ft (XRW)			
	Up to 2,750 mm / 9 ft (XSB)			

40°C / 104°F*

Temperature

APPLICATIONS

 For all sizes of treatment plant

Submersible pumps

SUBMERSIBLE SEWAGE PUMP TYPE ABS XFP

KEY CUSTOMER BENEFITS

- · Significant energy savings with high efficiency hydraulics and IE3 motor
- Long term reliability with rigid shaft and 100,000 h bearing liefcycle
- Impellers designed specifically for wastewater and optimized for rag handling
- Minimum 75 mm / 3 in free solids passage
- Submersed or dry installed
- Sizes up to DN600 and 350 kW (50 Hz) / 400 kW (60 Hz)

KEY CHARACTERISTICS

Flow Head Temperature Motor power 7,200 m³/h / 22,220 USgpm 78 m / 360 ft 40°C / 104°F* 1.3 to 350 kW / 2 to 400 kW, 2.7 to 536 hp

APPLICATIONS

• Raw water intake, wastewater treatment plant, wastewater with large solids, various pumping stations of all sizes



Compressors

TURBOCOMPRESSOR TYPE ABS HST

KEY CUSTOMER BENEFITS

- · Ensures that you get the highest efficiency for your biological treatment
- No wear due to the magnetic bearings
- Lubrication free
- Simple installation through integral design
- Low noise level: no additional soundproofing required
- · Flow control by integrated variable frequency drive

KEY CHARACTERISTICS

Air flow 700 – 16,000 Nm³/h / 25,000 – 560,000 ft³/h Pressure range 30 – 125 kPa / 4 – 18 PSIG Aeration for industrial wastewater treatment

APPLICATIONS



Aeration systems

SUBMERSIBLE AERATOR MIXER TYPE ABS OKI

KEY CUSTOMER BENEFITS

- · High process efficiency, especially when combined with the Sulzer turbocompressor type ABS HST
- · Designed for heavy-duty non-clogging operation
- Liftable and freestanding, making it easy to change the plant configuration no need to empty the tank
- · Can run as an aerator and/or mixer depending on the process requirements

KEY CHARACTERISTICS

APPLICATIONS

- Oxygen transfer Up to 405 kg O₂/h / up to 890 lb O₂/h Motor range 3 – 37 kW
- · For aeration in heavyduty applications, such as deep tanks or high sludge concentration



SUBMERSIBLE AERATOR TYPE ABS XTA/XTAK

KEY CUSTOMER BENEFITS

- · Self-aspirating unit eliminates need for blower
- · No aerosol effects or sedimentation at the bottom of the basin
- · Good oxygen transfer and aeration efficiency
- Liftable and freestanding, making it easy to change the plant configuration no need to empty the tank
- XTAK version with extended pipes increases efficiency by 15-20%

2,9 - 75 kW / 10 - 115 hp (60 Hz)

KEY CHARACTERISTICS

Motor range

APPLICATIONS

- Oxygen transfer Up to 70 kg O₂/h / 175 lb O₂/h (60 Hz) Mixing and equalizing tanks Activated sludge tanks and
 - SBR reactors
 - Efficient alternative to
 - surface aerator



DISC DIFFUSER SYSTEM TYPE ABS NOPON

KEY CUSTOMER BENEFITS

- · Fine bubble membrane with highest aeration efficiency, especially when combined with the ABS HST turbo compressor
- · High quality EPDM or polyethylene discs for various applications
- · Well proven non-return valve ensures trouble free operation in non-continuous processes
- · Sliding ring for fast and simple assembly and maintenance



KEY CHARACTERISTICS

APPLICATIONS

0.025 m² (HKL, KKI, MKL) Net effective area Continuous and non-0.060 m² (PIK, PRK) continuous aeration systems 0.186 m² (DS 20) $0.5 - 15 \text{ m}^3/\text{h}$ (referred air t° = Operating range 20°C and 101.3 kPa ambient pressure)

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