

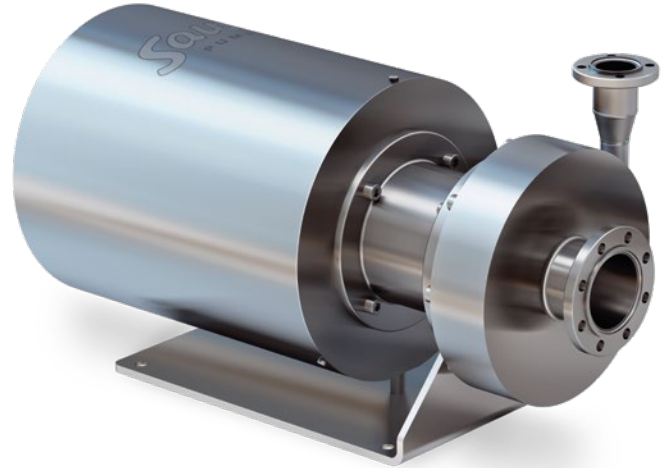


Centrifugal pump ZA/ZAL

We are a manufacturer of ZAL centrifugal pumps, which are used in the food, beverage, pharmaceutical and chemical industries.

The centrifugal pump type ZAL with the specially designed impeller achieves a maximum pressure of up to 10 bar in the single-stage design. Gentle and quiet product delivery is also guaranteed. Due to the steep characteristic curve, the pump can be easily controlled with a frequency converter.

The ZA pump is suitable for applications with low flow rates at high delivery pressures.



Centrifugal pump ZA/ZAL

Properties

- Dead space-free construction (hygienic design)
- Very quiet operation
- CIP and SIP-capable
- Simple design / low maintenance costs
- Robust design made of high-quality chrome-nickel-molybdenum steel 1.4435/316L with electropolished surfaces
- Conveying of solids-laden media without risk of clogging
- Ideal for rapid temperature changes thanks to robust design
- Suitable for abrasive and corrosive media
- Various mechanical seal systems possible
- Single-stage high delivery pressures
- With stub shaft for the use of standard motors

Areas of application

Food industry:

Liquid egg, vinegar, concentrates, flavorings, vitamins, milk, organic milk, cream, cheese curd, buttermilk, proteins, sauces, cooking oil, sugar solutions, brine, seasonings, fatty acids, CIP cleaning, frying oil, couverture, mash, yogurt, bulkheads, maltodextrin, lactose, ice water, fats, cocoa butter, liquid malt, etc.

Beverage industry:

Fruit juices, mineral water, syrup, spirits, fruit juices (also with fruit pulp), wine, beer, brewer's yeast, lemon juice, alcohol, liqueur, CIP cleaning, vegetable juices, table drinks, iced tea, etc.

Pharmaceutical and sterile technology:

Perfumes, emulsions, alcohols, herbal extracts, flavorings, proteins, various solutions, ultrapure water, WFI, PW, HPW, CIP/SIP cleaning, dyes, liquid creams, infusion solutions, mouth rinses, applications in biotechnology, etc.

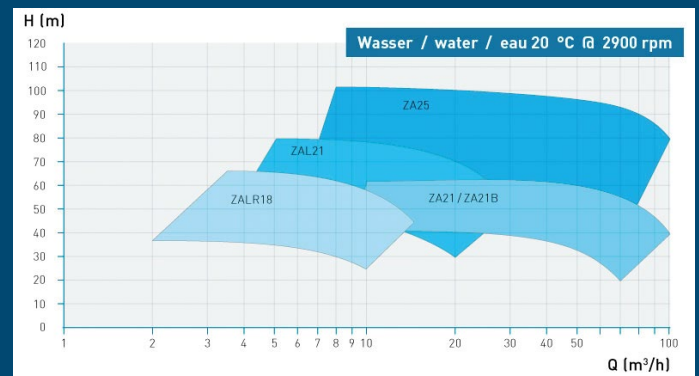
Chemistry and industry:

Alkalis, acids, milk of lime, refrigerants, alcohols, methanol, ethanol, solvents, hydrogen peroxide, resins, isocyanate, demineralized water, descaling agents, urea, plasticizers, glycol solutions, bleaching agents, various applications in reverse osmosis processes, biodiesel, waste water with particles, condensates, liquid road salt, etc.

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Facts

- ATEX for zones 1, 2, 21, 22
- Pharma for maximum safety, reliability and hygiene (surface roughness up to Ra <math><0.4\mu\text{m}</math>)
- Hermetically sealed magnetic coupling version ZALM and ZAM for crystallizing, toxic, flammable and environmentally hazardous liquids
- Vertical installation for easy residual emptying
- Storage rack design for special requirements
- Mobile with robust chassis and accessories according to customer requirements
- Heatable with liquid or heating cartridge
- Complete residual emptying at the lowest point of the pump body



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