



***Fristam***  
PUMPS

CENTRIFUGAL PUMP

# FRISTAM FP



Tried and tested a thousand times in the most varied applications throughout the hygienic process industry. All 14 models of the FP series can be used universally, ensuring gentle product handling. They are robust, low-maintenance, durable and economical.

- 14 different sizes
- System pressures up to 25 bar
- Discharge pressures up to 15 bar
- Flow rates up to 550 m<sup>3</sup>/h
- Viscosities up to 800 mPa·s

CENTRIFUGAL PUMP

# FRISTAM FPH



The Fristam FPH features specific advantages for high-pressure applications up to 80 bar. Consequently it can also be used as a booster pump in filtration technology. It is hygienic, gentle, exceptionally low-maintenance, durable, highly economical and, due to its heavy-duty components, very robust.

- 9 different sizes
- System pressures up to 80 bar
- Discharge pressures up to 13 bar
- Flow rates up to 550 m<sup>3</sup>/h
- Viscosities up to 800 mPa·s

CENTRIFUGAL PUMP

# FRISTAM FZ



A reversible, self-priming pump that offers exceptional precision for the complete evacuation of tanks and lines. The FZ is characterised by its impressive performance even when pumping highly viscous products. It is ideal for CIP return applications and is the optimum solution whenever high suction capacity is required.

- 6 different sizes
- System pressures up to 15 bar
- Discharge pressures up to 7 bar
- Flow rates up to 80 m<sup>3</sup>/h
- Viscosities up to 5,000 mPa·s

CENTRIFUGAL PUMP

# FRISTAM FPC



This newly designed pump offers superior performance with gaseous liquids and in CIP return applications. It combines Fristam's proven impeller with a rotor screw. This clever design results in a low-noise hybrid that pumps liquids with significant gas content at high efficiency. The FPC is also suitable for emptying tanks.

- Operating temperature up to 150° C
- Revolution speed up to 3,500 min<sup>-1</sup>
- Discharge pressures up to 5.8 bar  
(8.2 bar / 3,500 min<sup>-1</sup>)
- Flow rates up to 80 m<sup>3</sup>/h  
(95 m<sup>3</sup>/h / 3,500 min<sup>-1</sup>)

CENTRIFUGAL PUMP / SHEAR PUMP

# FRISTAM FPM / FSM



This magnetically coupled pump is designed for applications with special safety requirements. The FPM / FSM is specifically suited for transferring toxic, dangerous or water-hazardous goods. The open impeller is connected to the driving unit via a magnetic coupling that is contact-free. The pump's product space is hermetically sealed from the environment by a separating can.

- No mechanical seal; no need for a locking or supply system
- Hermetic sealing between product and atmosphere
- For transferring toxic, dangerous and water-hazardous goods

POSITIVE DISPLACEMENT PUMP

# FRISTAM FK



Thanks to extremely tight clearances in the pump chamber, the FK is characterised by excellent suction performance. The pistons' special shape guarantees almost perfect displacement and remarkably gentle transfer of your product. All models are hygienic, very gentle, durable, low-maintenance, versatile and economical.

- 5 different sizes
- Discharge pressures up to 20 bar
- Flow rates up to 25 m<sup>3</sup>/h
- Viscosities up to 1,000,000 mPa·s

POSITIVE DISPLACEMENT PUMP

# FRISTAM FKL



With its perfectly balanced rotor, the FKL is ideally suited for operation at high differential pressures. It is specifically designed to endure pressure peaks. The Fristam FKL series is suitable for high flow rates of up to 120 m<sup>3</sup>/h, as well as for CIP and SIP. All models are hygienic, gentle, low-maintenance, durable and economical.

- 10 different sizes
- Discharge pressures up to 35 bar
- Flow rates up to 120 m<sup>3</sup>/h
- Viscosities up to 1,000,000 mPa·s



POSITIVE DISPLACEMENT PUMP

# FRISTAM FL / FL3



The FL is universally suitable for many standard applications. It is hygienic, gentle, low-maintenance, durable and economical. The Fristam FL3 features unique helical three-winged rotors and is specifically designed for revolution speeds of up to  $1,000 \text{ min}^{-1}$  as well as for CIP return processes. This saves you an additional pump in a bypass line. All models are compact, very easy to clean as well as fully capable of CIP and SIP.

- 11 different sizes
- Discharge pressures up to 12 bar
- Flow rates up to  $70 \text{ m}^3/\text{h}$
- Viscosities up to  $1,000,000 \text{ mPa}\cdot\text{s}$

DOUBLE SCREW PUMP

# FRISTAM FDS



When developing this exceptional pump, we intended to set new standards in double-screw technology. As a result, the FDS is ideal for the most viscous products whilst also being capable of reaching high speeds of up to  $3,600 \text{ min}^{-1}$ . It easily copes with high differential pressures without overheating. The Fristam FDS can transport significant amounts of any low-viscosity medium, such as water or detergent solution, eliminating the need of an additional pump for cleaning processes.

- For high and low viscosities
- Incredible pressure and suction
- For production and CIP media
- Maximum hygiene including aseptic
- Maximum application flexibility
- Easy maintenance and repair

SHEAR PUMP

# FRISTAM FSP



Fristam's shear pump is specifically designed for producing dispersions and emulsions with maximum efficiency. It achieves incomparably homogenous products, while reducing raw material input and shortening processing times considerably. The FSP's three-dimensional shearing process continuously produces perfect blends of consistent quality. All models are extremely hygienic, super-efficient, very robust and exceptionally economical.

- 5 different sizes
- Impeller Ø 130 to 250 mm
- Shear rates up to 125,000 1/s
- Revolution speed up to 5,800 rpm
- Viscosities up to 100,000 mPa·s

POWDER MIXER

# FRISTAM PM / PMV



The solution to almost all problems when mixing powders and liquids. Fristam Powder Mixers are specifically designed for dissolving, emulsifying and homogenising dry and wet ingredients into fluids. They achieve perfect, homogeneous and smooth textures. Both Fristam PM and PMV series are hygienic, extremely efficient and economical. In addition, they are fully capable of CIP and SIP.

- 5 different sizes of the PM series
- 3 different sizes of the PMV series
- Powder intake up to 10 t/h



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***Fristam***  
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*Engineered For Lasting Performance™*