

# *Operating Instructions*



*Sanitary Pump*

*Type F 520 S3A-50/45*



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## Safety Instructions



- Do not use pump for transferring flammable products. Pump is not approved for use in hazardous locations ( Zone 0).
- Only use the pump for its intended purpose.
- Install the pump in a way which ensures that it cannot fall into the container.  
(Use an attachment clamp to fasten the pump into open containers).
- Only use the pump with a suitable hose.
- Ensure that the hose is securely fixed to the hosetail.
- Regularly check the hose and connections to ensure safe operation.
- The pump should not be immersed deeper into the liquid than the outlet connection.



- Comply with all relevant safety instructions. Wear appropriate protective clothing.  
(Face shield, protective gloves, etc. ).



- Comply with the operating instructions of the motor.  
( Some three-phase motors have their safety instructions contained within the terminal box ).



- Never operate the pump dry.
- The pump should not be exposed to the weather.
- Clean after each operation.
- Never store the motor in areas in which corrosive vapours exist.

## For use in hazardous locations



- Only use motors which are approved for use in hazardous locations ( ZONE 1 ).

- Explosion-proof three-phase motors
- Compressed air motors FPM 4, FPM 6, FPM 8  
( approval not necessary ).



- Observe Test Certificate or Certificate of Conformity.

- The explosion-proof motor has to be outside the container.
- Only use electrically conductive hoses (see TRbF 131 part 2). This will provide a conductive path for the pump, hoses and fittings.
- Only use an explosion-proof plug or an explosion-proof cable terminal box when making connections to the motor.
- If the electrical socket or the terminal box is positively located outside of the hazardous area, connection to explosion-proof equipment must not be undertaken.



- Regularly check the motors according to the relevant national safety regulations and/or rules for prevention of accidents. (In the Federal Republic of Germany these are for example VBG 4).



- Repairs to three-phase motors should only be carried out by the manufacturer or an authorized repair shop.



- The installation and operation must comply with the relevant Health & Safety Regulations. ( In the Federal Republic of Germany these are " TRbF " and also "BG Chemie" ).

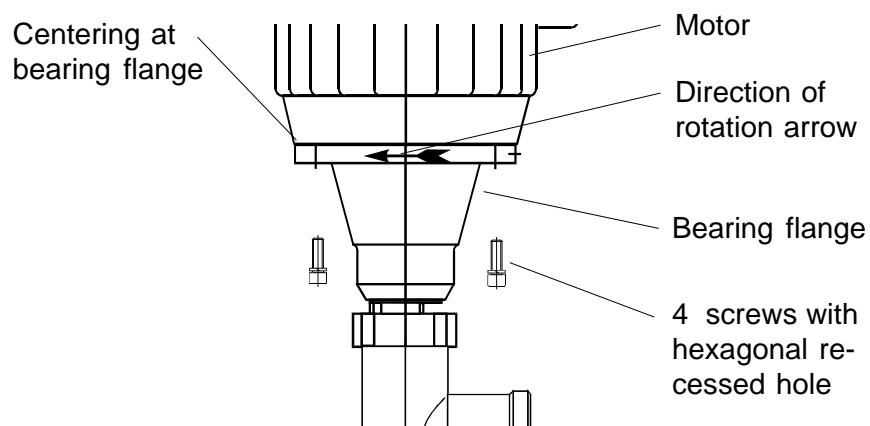
## Starting Operation

### Available drive motors:

- **Three-phase motors up to max. 4 kW**
- **Compressed air motors FPM 4, FPM 6, FPM 8**



- Installation of three-phase motors should only be carried out by suitably qualified personnel.
- Only use three-phase motors with a starter including an overload cut-out.
- Make sure that the supply voltage corresponds to the voltage indicated on the name plate. When using air motors, please do not exceed the maximum operating pressure and use a filter-regulator-lubricator unit.
- Check direction of rotation of the motor.  
In case of portable use, check direction of rotation before starting each operation.  
( Direction of rotation according to the arrow on the bearing flange ).
- Clean bearing and motor flange.
- Fit the motor onto the bearing flange and tighten the screws.



- Immerse the pump into the liquid and secure it in a vertical position by the use of a compression gland or a container clamp.
- Before inserting the electrical plug into the socket or before connecting the air supply hose to the motor, set the Start/Stop switch to "0" ( Stop ).
- Insert the plug or connect the air supply hose.
- Switch on the motor.
- When using compressed air motors, adjust the speed by the operating pressure.  
Do not exceed the maximum speed of 3000 min<sup>-1</sup> (rpm).

## Cleaning after each operation

### Clean the pump by flushing an appropriate cleaning agent.

- Pump and hose must be resistant to the cleaning agent.
- The pump should not be immersed into the cleaning agent deeper than the outlet connection.
- Do not use flammable liquids to clean pump or motor.
- After each operation with sticky or self hardening products, the pump should be flushed with a suitable cleaning agent. The pump should then be dismantled to carefully clean the sliding ring gasket and the lower bearing.

## Storage

- Unplug the pump or disconnect the air supply hose.
- Use a wall bracket to store the pump in a vertical position.

## Dismantling of the closed sliding ring gasket (SLRG)



- Do not damage sealing and/or sliding faces on SLRG.
- Do not damage sealing faces on outer tube and on centering piece.
- Do not use any tools to dismantle SLRG to avoid damage.

