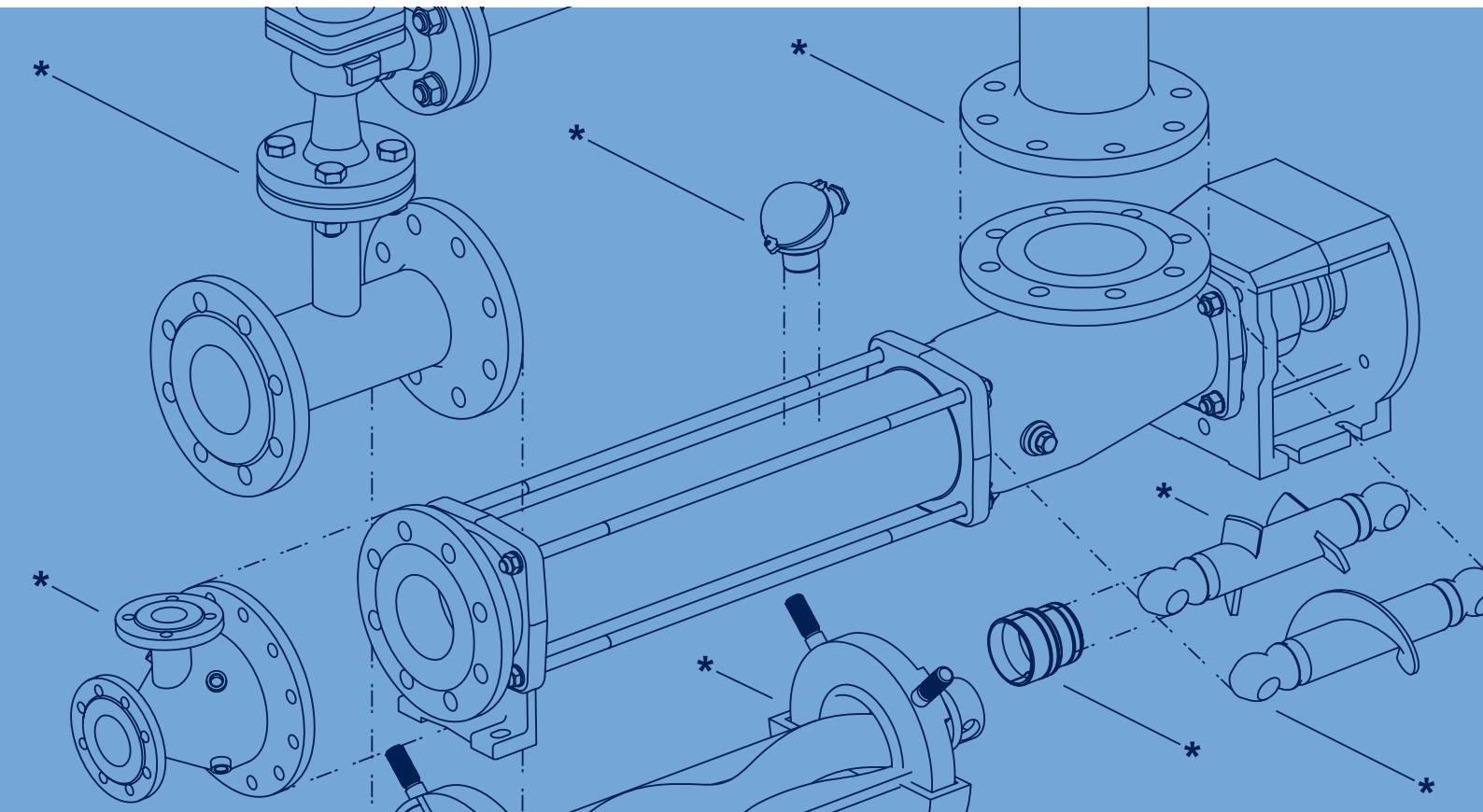


Here are the options and accessories*
for your pumping solution.



Options and accessories for our pumps.

With seepex pumping solutions, the principle of individuality applies. Each pump is configured to suit the needs of an industrial sector, the particular company, its site of operation and, of course, the medium being pumped.

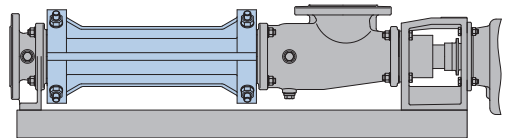
We have used this basis to develop a modular pump system. It comprises a total of 8 product groups and 27 ranges with conveying capacities of 0.1 l/h to approx. 500 m³/h and differential pressures of up to 48 bar. To further tailor each pump to its particular application, an extensive selection of accessories is available for the entire product range.

These are designed to aid operational reliability, increase service life with optimum pump capacity and ensure precise metering of the medium being pumped. Some, like the following accessory, can also optimise the lifecycle costs of a pump.

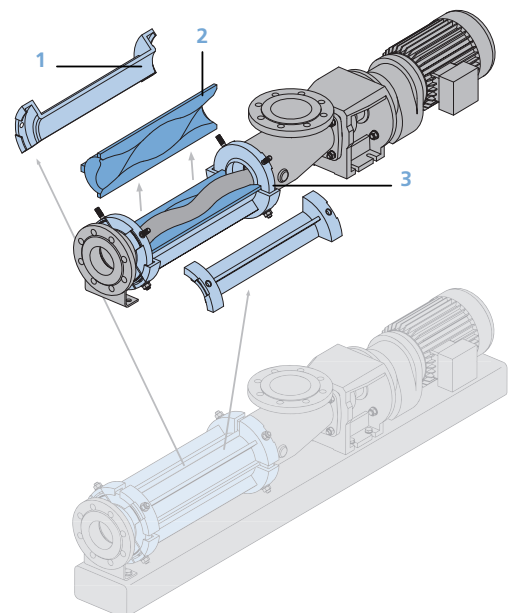
“Smart Stator Technology” (SST) was developed in order to enable simple and fast stator changes and the removal of blockages and debris without having to dismantle the piping. Progressive cavity pumps equipped with this technology no longer need to be removed from the pumping process for maintenance. This means that the tricky and time-consuming task of dismantling and reassembling pipelines and other system elements is no longer necessary. Maintenance times have thus been reduced to a previously unknown minimum.

- 1 **Adjusting segment** to hold the stator halves in position and re-adjust when necessary
- 2 **Smart Stator** consisting of 2 stator halves for quick assembly/dismantling
- 3 **Segment receiver** for positioning the stator halves and the adjusting segments

Smart Stator Technology

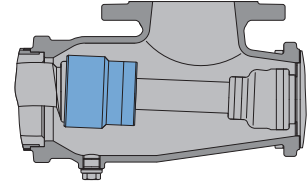


Exploded view



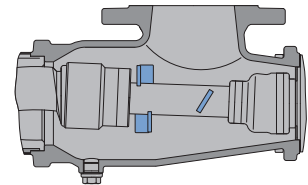
This stainless steel shielding protects the universal joint sleeve against mechanical damage caused by oversized solids such as plastic, wooden, glass and metal parts.

Universal joint protection



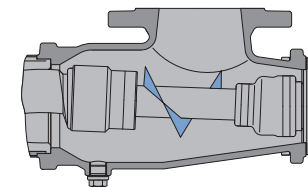
For mixing the conveyed medium and for media that tend to sedimentation. The impellers are attached to the coupling rod.

Impeller



This acts as a pumping aid for media with high viscosity and structure before they enter the stator. The feed screw is attached to the coupling rod.

Feed screw

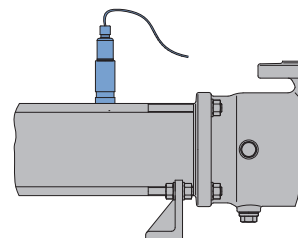
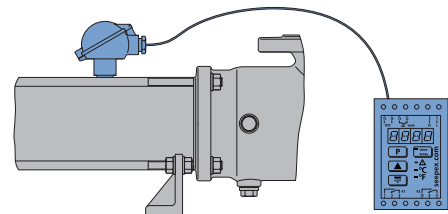


The temperature of the working surface of the stator is constantly monitored via a temperature sensor integrated in the stator and compared to the limit value set on the control unit. If the pump runs dry, the temperature rises due to the increased friction between the rotor and the stator. When the preset limit value is reached, the control unit automatically switches off the pump drive and triggers a fault message.

Dry running protection device TSE

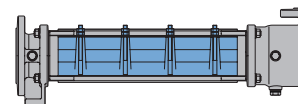
The basic version of the dry running protection (TSE-LC) switches off the drive motor of the pump via a contact if a preset, non-adjustable limit value is reached. Once the cause of the dry running has been resolved and the stator has cooled down, the pump can be started up again.

A special dry running protection device for food applications is available on request.



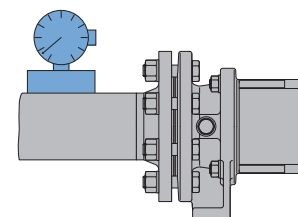
This device, designed for uniform retensioning of a worn stator, enables the original clamping force between the rotor and the stator to be re-established after wear has occurred, thus guaranteeing optimum pump performance.

Stator retensioning device _____



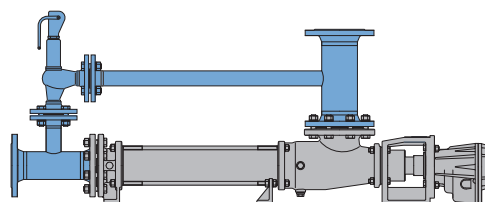
A diaphragm contact pressure gauge with an open flange connection switches off the pump drive if the preset pressure limit is passed.

Overpressure/low pressure protection device _____



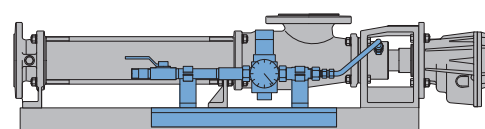
This is an alternative overpressure protection device which is useful for situations where switching off the pump is not desired due to the processes in use.

Overpressure protection device, bypass with pressure relief valve _____



For controlled feeding of the shaft seal or shaft sealing with sealing liquid, supplied with flow meter on request. For labyrinth seals, the flow rate can be adjusted and checked.

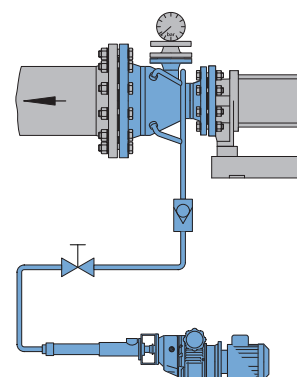
Seal cage supply unit _____



The adapter enables the pressure flange to be expanded to the next largest nominal width. A flange is also provided for connecting a pressure measuring transducer or a diaphragm contact pressure gauge.

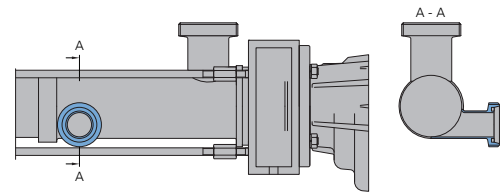
Pressure pipe adapter, boundary layer injection system _____

There are four threaded connections for connecting a boundary layer injection system – located at 90° intervals around the circumference of the pressure pipe adapter. Adding lubricants reduces the friction between the pumping medium and the pipe wall, thus significantly lowering the operating pressure of the pump. As a result absorbed power and pump wear are both reduced, leading to considerably lower operating costs.



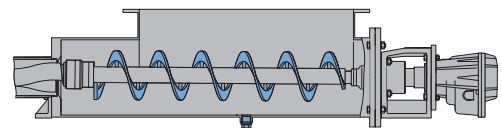
This connection allows the suction casing to be charged with the full quantity of rinsing fluid possible based on the conveying capacity of the pump. This guarantees intensive cleaning and thus complete draining, thanks to the tangential alignment of the nozzle.

CIP connection



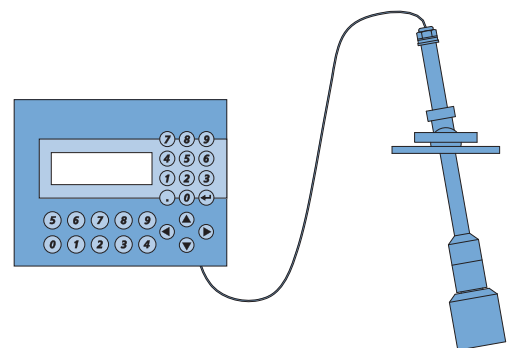
This special feed screw expands the scope of application for the BTE/TENS pump ranges. The open design means there is no bridging on the screw, and enables pumping of sludges with a higher dry matter content.

Ribbon screw



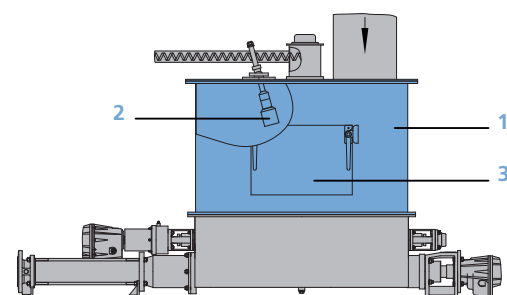
For optimum mixing of lime or other additional substances, a constant level of pumped material is required in the pump feed hopper. With this additional device, the level can be reliably measured using an ultrasonic sensor mounted in the feed hopper and transmitted to a control through a measuring transmitter.

Ultrasonic level measuring



When using the BTI/TINS pump ranges for sludge conditioning with lime or other additional substances, an extension hopper **1** can be delivered mounted on the pump. The connections for feeding the sludge and metering the additional substance are tailored to the installation conditions at the plant. Suitable equipment is available for mounting an ultrasonic sensor **2** for level measurement. The large inspection port **3** with quick release handles allows thorough inspection and cleaning of the interior.

Extension hopper and accessories range BTI/TINS

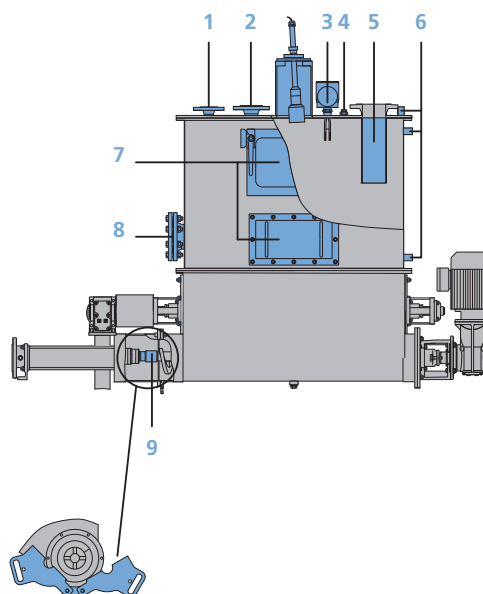


1-2 Connections for ventilating and bleeding the storage tank

- 3 Vibration limit switch** for switching off the pump in case of storage hopper overflow
- 4 Connection for CH₄ measuring head** optional CH₄ measuring head for measuring the methane gas content
- 5 Spray protection** only in combination with item 3, for protecting the vibration limit switch against contamination
- 6 Earth connection** for storage hopper and pump, supplied separately
- 7 Inspection opening** optionally with quick release handles, for inspection purposes and for cleaning the inside of the hopper
- 8 Drainage opening** for draining the storage hopper
- 9 Quick coupling/shut-off device** for preventing product spillage during maintenance, thus allowing quick rotor renewal without the need to empty the pump hopper.

Extension hopper

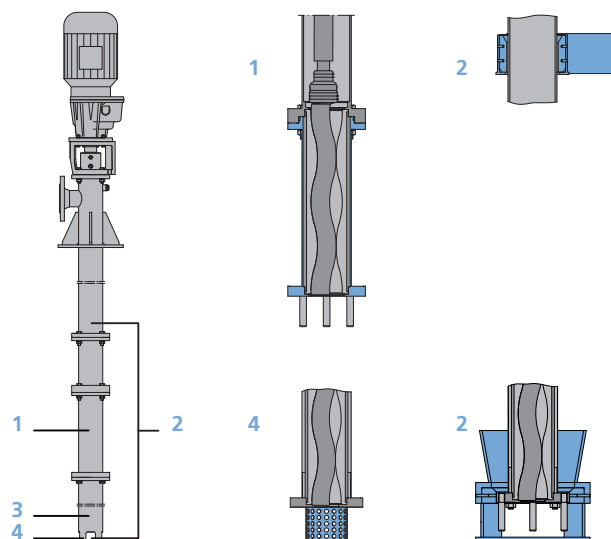
and accessories range BTEI



- 1 Encapsulated stator** for use with chemically aggressive media or where cleanliness is important such as the food, pharmaceutical and chemical industries.
- 2 Guide unit** for locating and fixing the pump, optionally as wall or floor mounting
- 3 Suction pipe** for increasing the submersion depth
- 4 Coarse suction strainer** prevents larger solids from entering the pump

Options and

accessories product group E



Allocation of accessories and product groups.

| Product groups | N | T | CS | D | E |
|---|---|---|----|---|---|
| Smart Stator Technology (SST) | • | | | | |
| Universal joint protection | • | • | | | • |
| Impellers | • | | | | |
| Feed screw | • | | • | | |
| Dry running protection device TSE | • | | | | |
| Stator retensioning device | • | | | | |
| Overpressure protection, low pressure protection device | • | • | • | • | |
| Overpressure protection, bypass with pressure relief valve | • | | • | | |
| Seal cage supply unit | • | • | • | • | |
| Pressure pipe adapter | | • | | | |
| Boundary layer injection system | | • | | | |
| CIP connection | | | • | | |
| Ribbon screw | | • | | | |
| Ultrasonic level measuring | | • | | | |
| Extension hopper incl. accessories | | • | | | |
| Encapsulated stator | | | | | • |
| Guiding unit | | | | | • |
| Suction pipe | | | | | • |
| Coarse suction strainer | | | | | • |

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