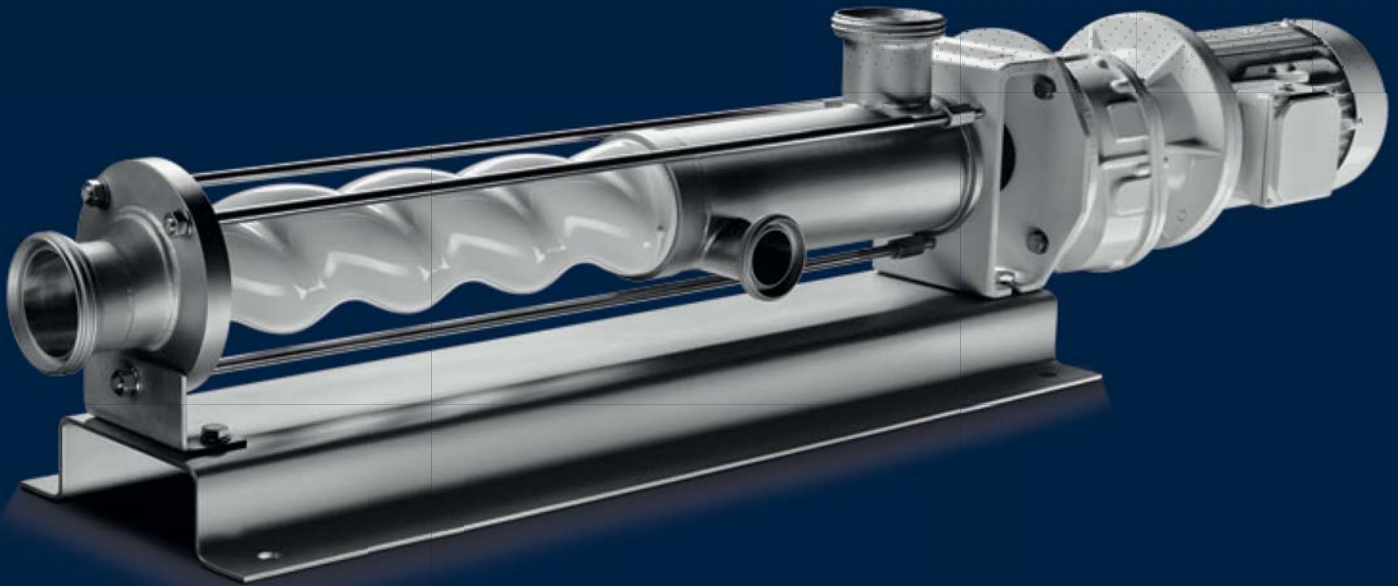


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# A CLEAN SOLUTION PRODUCT GROUP CS



# CLEAN AND SAFE

SEPEX food grade pumps of product group CS: Used where cleanliness, sterilization and hygiene are of the utmost importance in the food, beverage, pharmaceutical, cosmetics and personal care industries. "C" stands for CIP (Clean in Place) and "S" for SIP-capability (Sterilization in Place) of the pumps. CS pumps satisfy the highest requirements with regard to gentle conveying, sanitation, cleaning and sterilization. Depending on the pump range they are built with FDA approved components, certified acc. to the 3-A Sanitary Standards (USA) and designed to be in compliance with EHEDG directives and 3-A Dairy Standards in the USA.

**TIE BOLTS**  
Corrosion proof, just like all other hardware.

**STATOR**  
Available in rigid wall or stepped design. The seal on both ends is moulded as an integral part of the elastomeric stator; corrosion of the stator tube is never a problem because the pumped liquid never comes into contact with the metal tube or the bonding adhesive.

**PRESSURE BRANCH**  
Made of stainless steel, with internally polished finish and externally satin finish. Allows effective draining. Connection: pipe coupling to DIM, Tri Clamp® or any other known sanitary fitting.

**ROTOR**  
Wear resistant and corrosion-resistant materials. Optionally with hard surface treatment.

**SUPPORT**  
Made of stainless steel, satin finish for superior resistance to corrosive cleaning and sanitizing chemicals.

**OPEN PIN JOINT**  
Hygienic joint, designed for higher pressures and flow rates providing optimal cleanlines.

**COUPLING ROD**  
Made of stainless steel for power transmission. Available with propellers or feed screw.

**SUCTION CASING**  
Made of stainless steel and internally polished finish. The suction casing is mounted above the pump casing with suction connection above the mechanical seal enables both product flow and CIP solutions to flow through the entire casing. The tangential CIP-connection allows complete draining. Optional: double jackets for heating.

**LANTERN**  
A corrosion resistant design, optionally made of stainless steel, connects the pump and drive and secures the assembly to the baseplate or skid.

**SUCTION PIPE**  
Available in DIM, Tri Clamp® or any other known sanitary fitting.

**MECHANICAL SEAL HOUSING**  
Made of stainless steel for mounting the mechanical seal, available with or without splash.

**DRIVE**  
Gear motors, variable speed drives or frequency controlled drives, are directly flanged to the pump without additional coupling. Covers made of stainless steel are available.

**PLUG-IN SHAFT CONNECTION**  
For easy dismantling of the pump and drive enabling quick replacement of the rotating parts and shaft seals. The plug-in shaft pin secures the pump and drive components together. The pin both secures the plug-in shaft pin and protects the bearings from contamination/gland leakage. Easy access to the pump and drive enable quick replacement of the rotating parts and shaft seals.

**PLUG-IN SHAFT**  
Designed for easy CIP, made of stainless steel and designed to mount the mechanical seal without set screws or collars.

**MECHANICAL SEAL**  
Flushed by the product and located inside the suction area for optimal cleaning.

# OVERVIEW OF RANGES

**BCSD RANGE**  
The BCSD range pumps are equipped with open barrel shaped pin joints that can be cleaned without leaving residues through CIP cleaning. They meet the highest demands of cleanliness, safety and corrosion or wear resistance. Service work can be performed easily and rapidly without the need for special tools. They are built with FDA approved components, certified acc. to the 3-A Sanitary Standards, USA, and designed in compliance with the EHEDG directives.



**BCSB RANGE**  
The BCSB range pumps differ from those of range BCSD in their joint design. The BCSB range is equipped with the proven, sealed pin joints from the SEPEX pumps of the BMS/NS ranges. These wear-resistant pin joints are filled with special grease, approved for the food sector and sealed through an elastomeric universal joint sleeve and stainless steel holding bands. They are suitable for use with abrasive media and high operating pressures.



**BTCS RANGE**  
The BTCS range features a rectangular open hopper with a compression zone and an auger feed screw. The length of both open casing is variable to suit the application conditions. They are used for pumping highly viscous products with or without entrained solids. The BTCS range pumps are equipped with either a service friendly open joint (as the BCSD range) or with the proven closed pin joint.



# APPLICATIONS

SEPEX food grade pumps are clean and safe. Their structural advantages make them ideal for many applications, such as brewing and distilling, confectionery producers, bakeries, fruit and vegetable processors, dairies, pharmaceutical and cosmetics producers, poultry and meat processing, wineries and soft drink bottling or syrup plants.

## FEATURES (DEPENDENT ON PUMP RANGE)

- CIP/SIP cleaning
- Proven hygienic mechanical seals
- FDA compliant and 3-A approved components
- Easy to service, no special tools required
- Particularly gentle pumping, low product shear
- Easily pumps thin to highly viscous materials
- Stable conveying capacity and pressure

## KEY FACTS

- Conveying capacity:  
30 l/h–130 m<sup>3</sup>/h (0.192–572 USGPM)
- Pressure:  
up to 36 bar (540 psi)

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SEPEX GmbH  
[www.sepex.com](http://www.sepex.com)