



# Injecting a boost to your processes

Rotary Lobe Pumps for the Pharmaceutical and Biotech Industries



## Media

- Blood
- Cell Cultures
- Enzymes
- Ointments
- Protein Solutions
- Syrups

## Application

- Dosing
- Fermentation
- Filling
- Injection
- Processing
- Sterilisation
- Transfer
- Ultra-filtration



As a recognised market leader in pumping technology SSP has been at the forefront of supplying rotary lobe pumps to the pharmaceutical industry for over 60 years.

From low to high viscosity pumped media, SSP rotary lobe pumps with their characteristic smooth low shear pumping action are ideal for gentle transfer of delicate and sensitive media.

## The SSP Advantage

- **Hygienic construction**  
Non-contacting pumphead design with all metallic pumped media wetted components manufactured in 316L stainless steel.
- **CIP/SIP ability up to 200°C**
- **Electropolishing**  
Product wetted components can be electropolished to 0.5 (20 Ra).
- **Low shear pumping**  
Minimal damage to extremely shear sensitive media, such as cell cultures.
- **EN 10204 2.1 and 3.1 Certification and Material Traceability**
- **USP Class VI product wetted elastomers**

- **EHEDG accreditation for the highest level of cleanability**
- **ATEX Certified**  
Pumps can be ATEX Certified where generally classified for use in potentially explosive atmospheres under ATEX Directive 2014/34/EU Group II, Categories 2 and 3.
- **FDA compliance for all product wetted parts**
- **Electroless nickel plating**  
Pumps can be supplied with an electroless nickel plated gearbox to provide a clean, paint free corrosion resistant external finish as shown below :



# Rotary Lobe Pumps - *Right first time, every time*

SSP offers the broadest range of rotary lobe pumps available in the world today, channelled exclusively through a selected worldwide distribution network, and directly from the company's production facility located in Eastbourne, England.

## Series X

SSP Series X stainless steel rotary lobe pumps provide the ultimate in clean pumping.

- Flow rates up to 115 m<sup>3</sup>/h
- Differential pressures up to 15 bar
- Port sizes 25 - 150 mm



## Series S

SSP Series S stainless steel rotary lobe pumps suitable for a variety of process and transfer applications.

- Flow rates up to 106 m<sup>3</sup>/h
- Differential pressures up to 20 bar
- Port sizes 25 - 150 mm



### Pumped Media Seals

The optimum primary seal configuration and material combinations can be chosen to match the pumped media and duty conditions. Single or double mechanical seals include flushed or aseptic variants.

All sealing options on the Series X pump are completely front loading and fully interchangeable without the need for additional housings or pump component changes. This enhances cleanability, simplifies access and significantly reduces maintenance downtime.



Literature code number  
F/216/1810

### Rheology Testing

In specifying a rotary lobe pump for a particular application, a crucial consideration is an understanding of how the pumped media will behave in the pump, connecting pipe work and associated equipment.

Our on-site laboratory is equipped with a computerised rheometer to be able to determine a fluids viscous behaviour. As the only rotary lobe pump manufacturer in Europe with this facility that we know of, we feel this service is invaluable ensuring our philosophy of right first time, every time.

### Application Experience

When you approach SSP for advice, you get access to the largest accumulation of processing expertise and application know-how in the world.

With our unrivalled application experience you can be sure the SSP pump specified will be the right one for the job. First time, every time.

Alfa Laval reserves the right to change specifications without prior notification.