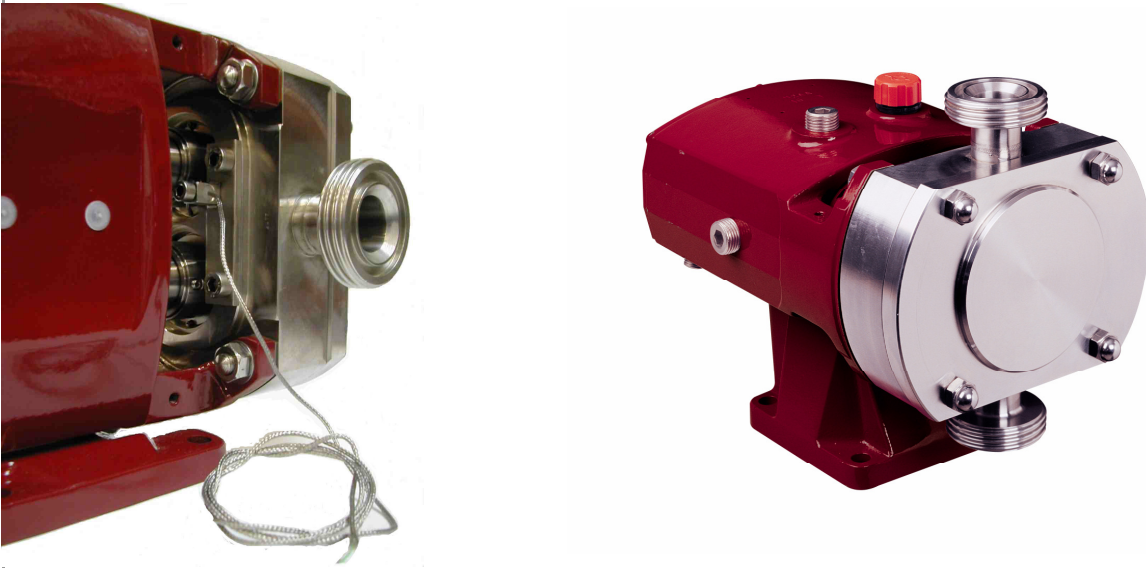




ATEX

Rotary Lobe Pumps for hazardous areas



SSP lead industry demand with ATEX Certified Rotary Lobe Pumps for use in potentially explosive atmospheres under the ATEX Directive 94/9/EC Group II, Categories 2 and 3, Gas and Dust.

Should pumps be required for other groups or categories, please consult our Customer Services for further advice.



The SSP range of rotary lobe pumps is further enhanced to operate safely in hazardous applications that can meet the requirements of this emerging legislation.

In order to meet ATEX compliance one important consideration for a rotary lobe pump is the primary seal. Here, the concern is for monitoring seal performance parameters, in particular the risk of mechanical seal faces becoming hot under certain conditions.

SSP Pumps offer the solution with different levels of monitoring to suit application demands...

Pumps fitted with Double flushed mechanical seals having the following options:

- Electronic monitoring equipment to measure pressure, flow and temperature.
- Thermocouple device to monitor seal face temperature differential, suitable for customer to connect to own instrumentation.
- Closed loop sealant system.

Pumps fitted with Single mechanical seals with option of:

- Thermocouple device to monitor seal face temperature differential, suitable for customer to connect to own instrumentation.

The thermocouple is embedded into the seal face ensuring accurate temperature differential monitoring.

ATEX Explained

The ATEX Directive 94/9/EC covers equipment and protective systems that will be used in areas endangered by potentially explosive atmospheres created by the presence of flammable gases. Under this directive the equipment intended for use in potentially explosive atmospheres is divided into groups and categories which relate to the degree of protection as shown in the table below:

It is the responsibility of the end user to classify the group, category and the corresponding zone (dust or gas) in accordance with the EC Directive 1992/92/EC.

Equipment-groups (Annex I of the EC-Directive 94/9/EC)							
Group I (mines, mine gas and dust)		Group II (other explosive atmospheres gas/dust)					
Category M		Category 1		Category 2		Category 3	
1	2	G (gas) (Zone 0)	D (dust) (Zone 20)	G (gas) (Zone 1)	D (dust) (Zone 21)	G (gas) (Zone 2)	D (dust) (Zone 22)
for equipment providing a very high level of protection when endangered by an explosive atmosphere	for equipment providing a high level of protection when likely to be endangered by an explosive atmosphere	for equipment providing a very high level of protection when used in areas where an explosive atmosphere is very likely to occur		for equipment providing a high level of protection when used in areas where an explosive atmosphere is likely to occur		for equipment providing a normal level of protection when used in areas where an explosive atmosphere is less likely to occur	

ATEX Compliant SSP Pumps

SSP Series S stainless steel rotary lobe pumps operate safely in hazardous applications worldwide.

- Flow rates up to 106 m³/h
- Differential pressures up to 15 bar
- Port sizes 25 - 150 mm



About SSP Pumps

SSP offers the broadest range of rotary lobe pumps available in the world today. The pump range fulfills many fluid transfer requirements, with both stainless steel models for anti-corrosive and hygienic applications and ductile iron for less aggressive chemical uses. SSP ranges of high-quality pumps are sold through a selected worldwide network of Distributors, and directly from the company's production facility located in Eastbourne, England.

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

- Flow rates up to 115 m³/h
- Differential pressures up to 15 bar
- Port sizes 25 - 150 mm



We provide our customers with engineered solutions to suit application demand, with port sizes from 25 mm to 300 mm, and flow rates up to 680 m³/h. With our unrivalled applications experience you can be sure the SSP pump we specify for you will be the right one for the job. First time, every time.

Literature code number F/204/0602

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